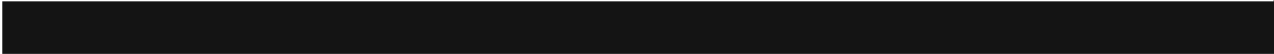


## Environmental Documents

**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**



85. West Los Angeles Asbestos & Lead Abatement Report (fiscal 2004)



**Industrial Hygiene  
WLA**

**Asbestos & Lead  
Abatement Work  
Vol. 1 FY 2004**

# ASBESTOS & LEAD PROJECTS

FY2004

## FIRST QUARTER

BLDG	ROOM/AREA	DATE
295	BOILER ROOM	10/06/03
115	RM 313	10/06/03
500	RM 2216 A & B	10/07/03
220	RM 15	10/14/03
300	RM 118-B	10/20/03
500	3E - POD A	10/24/03
295	BOILER & SECOND DECK	10/30/03
301	ROOF	11/05/03
114	RM 108	11/13/03
501	ROOF	11/19/03
212	RM 7	11/25/03
295	BOILER	11/26/03
500	3W - POD D	12/09/03
256	RM 16	12/10/03
256	RM 13	12/12/03
500	RM 1406	12/16/03



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		
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: October 06, 2003  
 Project: Removal Floor Tiles and Mastic  
Wet Method Removal under HEPA Vacuum & exhaust, Containment and Jack Hammer  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 115 Room: 313 Floor: 3

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 05	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BG/PCM	Area Decon/PCM	Area Inside/PCM			
b. SAMPLE SUBMISSION NO.	SX030207	SX030208	SX030209			
c. TIME ON	8:30	11:20	14:35			
d. TIME OFF	9:55	14:00	16:10			
e. TOTAL TIME (in minutes)	85	160	95			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/min	15	15	15			
g. VOLUME (in liters)	1275	1600	950			

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: 10-06-03						

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0029	F/CC	0.0018	F/CC	0.0052				

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

8. IH COMMENTS TO LABORATORY  
PCM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	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 10/06/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI-BRATION DATE 10/06/03	10d. FLOW RATE CALCULATIONS 15 l/min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE 10/06/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	------------------	--

25-3



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>A-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) <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: October 07, 2003**  
**Project: Removal Floor Tiles and Mastic**  
**Wet Method Removal under HEPA Vacuum & exhaust, Containment and Jack Hammer**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 115 Room: 313 Floor : 3**

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 9/13/02	SAMPLE 5	SAMPLE 6
a. SAMPLE TYPE/MEDIA	CL/TEM					
b. SAMPLE SUBMISSION NO.	SX030210					
c. TIME ON	09:42					
d. TIME OFF	11:42					
e. TOTAL TIME (In minutes)	120					
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/min	12					
g. VOLUME (in liters)	1440					

**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 : 10-06-03										
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	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 (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 Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>10/07/03</b>	10b. FLOW RATE CALCULATIONS <b>15 l/min</b>	10c. (POST) CALI-BRATION DATE <b>10/07/03</b>	10d. FLOW RATE CALCULATIONS <b>15 l/min</b>
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>10/07/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	-------------------------	---

*85-4*



4. Inside Work Area: SX030209 on 10/06/03
5. Clearance: SX030210 on 10/07/03
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 \_\_\_\_\_ 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 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. 115, Floor 3, Rooms 313 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 10/07/03 are as follows:
- |                  |                 |                  |                                      |
|------------------|-----------------|------------------|--------------------------------------|
| Bldg. <u>115</u> | Floor: <u>3</u> | Room: <u>313</u> | <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

Zuivand Medina

85-6

# 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:** 90377      **Date Received:** 10-8-03      **Filter Type:** NICE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 10-8-03      **Mag:** 400x      **Field Area:** 0.00785M<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 10-6-03      **Project #:** B115 RM 313      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 90377VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL_SENT.
SX030207	100	7.5	10	3678	1275.0	0.0029	0.0021	0.0242	0.0004
SX030208	100	6	8	2943	1600.0	0.0018	0.0017	0.0193	0.0003
SX030209	100	10	13	4904	950.0	0.0052	0.0028	0.0324	0.0005

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. 7795**      **CARL BERGMAN**  
**I.D. 2033**      **JEFF WAN**  
**I.D. 3276**      **S.AHMAD**

**8. M. Kolk, Laboratory Director**  


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**

85-8



DATE: October 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-C30452  
B115 Rm 313  
DATE COLLECTED: 10/6, 7/03 by Ted/Zainul  
REPORT NO: 90377.1  
DATE RECEIVED: 10/8/03 at 0930  
DATE ANALYZED: 10/8/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX030210

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.

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.

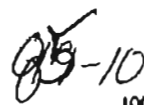


# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 90377.1  
 ▶ Client V.A.G.L.A.R.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/8/03  
 ▶ Date Analyzed 10/9/03  
 ▶ 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"/> ≥5 µm Length <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	>0.5 µm Length <input checked="" type="checkbox"/> PCM Range* <input type="checkbox"/>
LEVEL II <input type="checkbox"/>		≥1 µm Length <input type="checkbox"/> *P.25 µm Width <input type="checkbox"/>
		≥5.0 µm Length <input type="checkbox"/>

Sample Identification	Volume (L)	Mass in (mg)	95% CONFIDENCE LEVELS	
			Lower Limit	Upper Limit
SX 030210	1440	N.D.	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.

90377

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

RELINQUISHED BY Cairnd

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218,  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE BEN SPIVEY  
 CONTACT [REDACTED]

TIME / DATE 10/7/03  
 DATE OF SHIPMENT 10/7 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B115 RM 313  
 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 10/6/03 & 10/7/03  
 SAMPLE PRESERVATIVES B+1 No None HOLDING TIMES None  
 NO. OF SAMPLES SENT 4 SAMPLER'S NAME Ted/Cairnd  
 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
90377-7	SX030207	B6/Area	PCM 1275
↓ 8	SX030208	Area Outside	PCM 1600
↓ 9	SX030209	Area Inside	PCM 950
903771-10	SX030210	Clearance	TEM 1440
<p>Note: TEM Results needed by 12 Noon on 10/8/03, PCM SPD</p>			

(SF 5/00)

FOR EMLY

Laboratory No. 90377.1 Received By [Signature] Time 9:30  
 Date of Package Delivery 10-8-03 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 3+1 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10-8-03 Misc. Info \_\_\_\_\_  
 Disposition of Samples [Signature] 95-11

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>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)

h. 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 06, 2003  
 Project: Removal of ACM Pipe Insulation (TSI) in the Middle  
Dry Method Removal under HEPA Vacuum & exhaust, Containment and Jack Hammer  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 295 Room: Boiler Floor: 1<sup>st</sup> Deck

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

5. SAMPLING INFORMATION						
(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	SAMPLE 05	SAMPLE 6
a. SAMPLE TYPE/MEDIA	Area CL/TEM					
b. SAMPLE SUBMISSION NO.	SX030206					
c. TIME ON	8:45					
d. TIME OFF	10:55					
e. TOTAL TIME (in minutes)	130					
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10					
g. VOLUME (in liters)	1300					

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: 10-8-03		
SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	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 (TEM)

8. IH COMMENTS TO LABORATORY TEM	
9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
9c. (PRE) CALI-BRATION DATE 10/06/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI-BRATION DATE 10/06/03	10d. FLOW RATE CALCULATIONS 15 l/min

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 10/06/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	--

85-12



Date: October 06, 2003

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 10/06/03

Location: VA Hospital Bldg. 295, Boiler Room 1<sup>st</sup> Deck

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: ACM Pipe Insulation (TSI)

Quantity of ACM: 5 ft.

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

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      No X  
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:

*ES-14*

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX030206 on 10/6/03
6. VAH 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: Yes \_\_\_\_\_ No X Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No \_\_\_\_\_ No. Chambers: 1 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: Vac. Only Yes X No \_\_\_\_\_
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_\_\_ 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. 115 Floor 3, Rooms 313 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 10/06/03 are as follows:
- |                  |                      |                                  |           |                            |
|------------------|----------------------|----------------------------------|-----------|----------------------------|
| Bldg. <u>295</u> | Floor: <u>Boiler</u> | Room: <u>1<sup>st</sup> Deck</u> | <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

*JS-15*

DATE: October 10, 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-C30452, Bldg 295 Boiler Plant  
DATE COLLECTED: 10/6/03 by James Spencer  
REPORT NO: 90375  
DATE RECEIVED: 10/8/03 at 0930  
DATE ANALYZED: 10/8/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

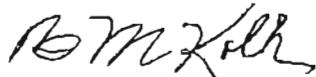
The sample was identified as: SX030206

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.

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.

88-16



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 90375  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/18/03 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/18/03 ▶ 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 $\mu$ m Length <input type="checkbox"/>
LEVEL II <input type="checkbox"/>		> 1 $\mu$ m Length <input checked="" type="checkbox"/>
		PCM Range* <input type="checkbox"/>
		* 0.25 $\mu$ m Width <input type="checkbox"/>
		$\geq$ 5.0 $\mu$ m Length <input type="checkbox"/>

Sample Identification	Volume (L)	Mass (mg)	Structures/mm	Analytical Sensitivity	95% CONFIDENCE LEVELS	
					Lower Limit	Upper Limit

SX 030206	1300	-	N.D.	0.005	0	0.02
-----------	------	---	------	-------	---	------

*Handwritten signature and number: 05-17*

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: \_\_\_\_\_





# 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
6. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
4. PERSONAL PROTECTIVE EQUIPMENT USED	5. MANUFACTURER <b>N/A</b>	7. APPROVAL No. (for Respirator)

8. 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 : 10/07/03**  
**Project: Floor Tile & Mastic Removal**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 500 Room. 2216 A & B Floor : 2<sup>nd</sup> Floor East**

9. FREQUENCY (How long job takes) <b>N/A</b>	1. 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 <u>inside</u>	SAMPL <u>Decon</u>	SAMPLE - <u>inside</u>	SAMPLE <u>  </u>	SAMPLE <u>  </u>
a. SAMPLE TYPE/MEDIA	PCM	PCM	PCM		
b. SAMPLE SUBMISSION NO.	SX030211	SX030212	SX030213		
c. TIME ON	08:30	11:30	13:00		
d. TIME OFF	10:30	12:55	14:35		
e. TOTAL TIME (in minutes)	120	85	953		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	15	15	15		
VOLUME (in liters)	1,800	1,275	1,405		

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	DATE
Asbestos	f/cc	0.012	f/cc	0.0035	F/cc	NA	10/07/03

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>0/07/03</b>	10b. FLOW RATE CALCULATIONS <b>15 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>10074/03</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>10/07/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

*85-79*



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

b. 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 : 10/08/03**  
**Project: Floor Tile & Mastic Removal**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 500 Room. 2216 A & B Floor : 2<sup>nd</sup> Floor East**

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 <u>Inside</u>	SAMPL <u>Decon</u>	SAMPLE - Inside	SAMPLE __	SAMPLE __
a. SAMPLE TYPE/MEDIA	TEM/Clearance	PCM	PCM		
b. SAMPLE SUBMISSION NO.	SX030224				
c. TIME ON	08:00				
TIME OFF	09:20				
d. TOTAL TIME (In minutes)	80				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm/min	15				
g. VOLUME (in liters)	1,200				

### 6. RESULTS (For Laboratory Use)

SUBSTANCE &	UNIT	RESULT	UNIT	RESULT	UNIT	a. PERCENTAGE		DATE
						RESULT	TYPE	
Asbestos	S/mm <sup>2</sup>	ND						10/08/03

### 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>10/08/03</b>	10b. FLOW RATE CALCULATIONS <b>15 liters/minute</b>	10c. (POST) CALI-BRATION DATE <b>10/08/03</b>	10d. FLOW RATE CALCULATIONS <b>15 liters/minute</b> <i>85-20</i>
11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer/Zainul Abedin</b>		DATE <b>10/08/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..

Date: 10/07/03

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 10/07/03

Location: VA Hospital Bldg. 500 Room 2216 A & B Floor : 2 East

Abatement Company: Unlimited Environmental, Inc.

Phone Number: [REDACTED]

Abatement Supervisor: Felipe Gomez

Type of ACM: 12" X 12" Floor Tile & Mastic

Quantity of ACM: Approximately 90 ft<sup>2</sup>

Abatement Type & Method(s): Removal Wet

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: SX030211
- 3. Perimeter: \_\_: SX030212, SX030213

*Handwritten signature/initials* -21

4. Inside Work Area: :

5. Clearance: : SX030212

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: 2<sup>nd</sup> East, Rooms: 2216 A & B 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 10/7/03 are as follows:

Bldg. <u>500</u>	Floor: <u>2 East</u>	Room: <u>2216 A &amp; B</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

*JS-22*

# 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: 90376 Date Received: 10-8-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 10-8-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 10-7-03 Project #: B500 RM 2216 A & B Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 90376VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX030211	100	45	57	22070	1800.0	0.012	0.0015	0.0171	0.0003
SX030212	100	9	11	4414	1275.0	0.0035	0.0021	0.0242	0.0004
SX030213	OVERLOADED				1405.0	NA			

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 *Carl Bergman* B.M. Kolk, Laboratory Director *B.M. Kolk*  
 I.D. 2033 JEFF WAN  
 I.D. 3276 SAHMAD

Interlaboratory Sr is taken as 0.43 Inralaboratory 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**

*ES-23*

**SUBMITTAL FORM** / Laboratory Services

90376

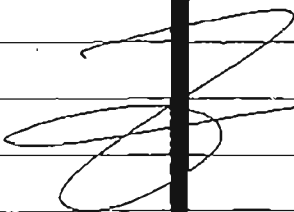
TURNAROUND TIME: STD  48 HR.  24 HR.   
 <8 HR.  WKND  OTHER:

RELINQUISHED BY Zaidul  
 TIME / DATE 10/7  
 DATE OF SHIPMENT 10/7 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B500 RM 2216 A & B  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218,  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE BEN SPIVEY  
 CONTACT \_\_\_\_\_

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 10/7/03  
 SAMPLE PRESERVATIVES NO HOLDING TIMES None  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME Ted / Zaidul  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME, WEIGHT IF APPLICABLE
90376-1	SX030211	Background	PCM 1800
2	SX030212	Area Outside	PCM 1275
3	SX030213	Area Inside	PCM 1405
			

Laboratory No. 90376 Received By [Signature] Time 9:30  
 Date of Package Delivery 10-8-03 Shipping BHI 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 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10-8-03 Misc. Info. 85-24  
 Disposition of Samples CCG CH

FOR EM ONLY (SF 5/00)



85-25

# SUBMITTAL FORM Laboratory Services

# 90409

PAGE 1 OF 1

TURN-ROUND TIME: STD  48 HR.  24 HR.  <8 HR. WKND  OTHER: RUSH!

RE-ORDERED BY: T. DAVIS  
TIME / DATE: 5 PM / 10/9/03

CLIENT: VA-GLARS (130b)  
ADDRESS: 301 WILSHIRE BLVD, BLDG 218,  
LOS ANGELES, CA 90025 RM 308  
TELEPHONE: BEN SPIVEY  
CONTACT: [REDACTED]

DATE OF SHIPMENT: 10-9 CARRIER: FedEx  
CLIENT P.O. NO.:  
CLIENT JOB/PROJECT ID NO(S):  
Bldg 500, 300, 256 - TEM Clearance  
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: 10-9 - RUSH! 0930-1600

HOLDING TIMES:

SAMPLE PRESERVATIVES:  
NO. OF SAMPLES SENT: 3 SAMPLER'S NAME: M. [REDACTED]

SIGNATURE: [REDACTED] PRINTED: TEM (AMER)

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

OTHER:

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS
<u>90409-4</u>	<u>SX030224</u>	<u>Bldg 500, RM 224 B - TEM Clearance - 1200 Ltrs</u>
<u>5</u>	<u>SX030225</u>	<u>Bldg 300, RM 118 B - TEM Clearance - 1400 Ltrs</u>
<u>6</u>	<u>SX030226</u>	<u>Bldg 256, RM. F - TEM Clearance - 1200 Ltrs</u>

NOTE: PLEASE RUSH! 2 PM.  
RESULTS FROM THURSDAY 10/9/03  
THANK YOU.  
RESULTS TO BEN SPIVEY @ 310-261-4200  
THANKS AGAIN!!

FO S ONLY (SF 5/00)

Laboratory No. 90409  
Date of Package Delivery: 10-9-03  
Condition of Package on Receipt: [Signature]  
No. of Samples: 3  
Date of Acceptance into Sample Bank: 10-9-03  
Disposition of Samples: EEF 1/4

Received By: [Signature] Time: 10:30  
Shipping Bill Received: YES  NONE   
Condition of Custody Seal: [Signature]  
Chain-of-Custody Signature: [Signature]  
Misc. Info: [Signature]

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 90409  
 Client VAGLPHI  
 Reference No. Bldg 500 300 256

Date Received 10-9-02 Verbal Results 10-9-02  
 Date Analyzed 10-9-02 FAX Results 10-9-02

Direct Preparation   
 Indirect Preparation   
 EPA Level I   
 EPA Level II   
 AHERA Rules   
 NIOSH 7402 (PCM Range)

ASPECT RATIO  
 3:1   
 5:1   
 STRUCTURE SIZE  
 All Sizes (EPA)   
 ≥0.5µm Length   
 >5µm Length   
 PCM Range\*   
 >0.25µm width, >5.0 µm Length

ANALYTICAL SENSITIVITY (Structures/cc)  
 Lower Limit  
 Upper Limit

Sample Identification	Volume (L)	Structures/mm <sup>2</sup>	Structures/cc	95% CONFIDENCE LEVELS
SX030224	1200	ND	ND	0.005
SX030225	1450	ND	ND	0.005
SX030226	1200	ND	ND	0.005

27-27

"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 Asbestos-Airborne by Electron Microscopy," US EPA-1984 (Yamamoto, et al.)  
 NIOSH 7402, Revision #1: 5/15/89 (NIOSH 7400 PCM equivalent stage)

10-9-02

7/9999929 02:51 5A07/CA/01

# 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

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:** 10-14-03  
**Project:** Removal 30 lft of TSI and 14 elbows  
**Wet Method Removal under HEPA Vacuum & exhaust and Mini Containment and Glove bagging**  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 220 Room: 15 Floor : Ground 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 01	SAMPLE 02	SAMPLE 03	SAMPLE 04	SAMPLE 5	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BG/PCM	Area/PCM	CL/TEM			
b. SAMPLE SUBMISSION NO.	SX030237	SX030238	SX030239			
c. TIME ON	09:10	10:15	14:00			
d. TIME OFF	11:35	12:45	15:40			
e. TOTAL TIME (In minutes)	145	150	100			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	8	10	12			
g. VOLUME (in liters)	1160	1500	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 : 10-14-03							

SUBSTANCE ↓	UNIT	RESU LT	UNIT	RESUL T	UNIT	RESU LT	UNIT	RES ULT	UNIT	RESUL T
Asbestos	F/CC	0.011	F/CC	0.014	S/mm <sup>2</sup>	ND				

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy (PCM)  
 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 Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 10/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI- BRATION DATE 10/14/03	10d. FLOW RATE CALCULATIONS 15 l/min
---	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 10/14/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	--

05-28

Date: 10/14/03

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 10/14/03

Location: VA Hospital Bldg. 220 Room : 15

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eddie Catalan

Type of ACM: TSI and Elbows

Quantity of ACM: 30 lft and 14 elbows.

Abatement Type & Method(s): Friable/ Wet Method/Containment/HEPA Vacuum & 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: SX030237 on 10/14/03
  - 3. Perimeter: \_\_\_\_\_
  - 4. Inside Work Area: SX030238 on 10/14/03

*Handwritten signature and number* 29

5. Clearance: SX030239 on 10/14/03

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 X No      Properly Taped to Pipes: Yes X No     

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

C. Proper Decon: Yes X No      No. Chambers: 1 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      w 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. 220, Floor 1st, Rooms 15 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 10/14/03 are as follows:  
Bldg. 220 Floor: 1st Room: 15 ND 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

Zainul Abidin

05-30

05-31

# 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.:** 90508.1      **Date Received:** 10-15-03      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 10-20-03      **Mag:** 400x      **Field Area:** 0.00785(MA)  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 10-14-03      **Project #:** B 220 RAI 15      **Filter Size:** 25MMI  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 90508.1.VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (L/Lt)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX030237	100	25	32	12261	1160.0	0.011	0.0023	0.0266	0.0004
SX030238	100	44	56	21580	1500.0	0.014	0.0018	0.0205	0.0003

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.mm)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/Sq.mm)

ANLSENT = 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**

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

Interlaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3  
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85-32



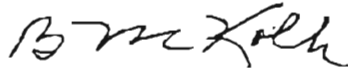
DATE: October 15, 2003  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C30452  
B 220 Rm. 15  
DATE COLLECTED: 10/14/03 by T.Davis  
REPORT NO: 90508  
DATE RECEIVED: 10/15/03 at 0930  
DATE ANALYZED: 10/15/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX030239 Clearance

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.

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.

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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 for Asbestos Structures

▶ EMS Laboratory No. 90508  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/15/03 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/15/03 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <input type="checkbox"/>	3:1 <input type="checkbox"/>	AB 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"/> $\bullet 0.25 \mu\text{m}$ Width
		$\geq 5.0 \mu\text{m}$ Length

Sample Identification	Volume (L)	Mass (mg)	95% CONFIDENCE LEVELS	
			Lower Limit	Upper Limit
SX 030239	1200	-	0	0.02

85-34

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: \_\_\_\_\_

SUBMITTAL FORM Laboratory Services

40508

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

RELINQUISHED BY Zadmal  
 TIME / DATE 10/14/03  
 DATE OF SHIPMENT 10/14/03 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B200 Room 15  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218,  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE BEN SPIVEY  
 CONTACT \_\_\_\_\_

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 10/14/03  
 SAMPLE PRESERVATIVES (2+1) No HOLDING TIMES None  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME Ted Davis  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
90508-7	SX030237	Background Inside Rm	PCM 1160
↓ 8	SX030238	Area Air Inside	PCM 1500
90508-9	SX030239	Clearance	TEM 1200
		Note: Clearance Results needed by 12 Noon on 10/15/03 STD PCM	

FOR EMS ONLY (SF 5/00)

Laboratory No. 90508 Received By [Signature] Time 9:30  
 Date of Package Delivery 10-15-03 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 2+1 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 10-15-03 Misc. Info. \_\_\_\_\_  
 Disposition of Samples Clearance

# AIR SAMPLING DATA

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

<b>4. EMPLOYEE INFORMATION</b>		
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:** 10/20/03  
**Project:** ACM Pipe Insulation Removal from Inside NE Wall of Bldg. 300 Rm. 118B  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 300 Room: 118B Floor: 1<sup>st</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				
<i>(Fill in Sample No.)</i>	SAMPLE 01	SAMPLE 02	SAMPLE 03 10/21/03	
a. SAMPLE TYPE/MEDIA	Decon/PCM	Area/PCM	CL/TEM	
b. SAMPLE SUBMISSION NO.	SX030218	SX030219	SX030255	
c. TIME ON	09:45	12:23	11:03	
d. TIME OFF	12:20	13:35	13:15	
e. TOTAL TIME (In minutes)	155	72	132	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	15	
g. VOLUME (In liters)	2325	1080	1980	

8. RESULTS (For Laboratory Use)						
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Colling T = Time Weighted Average						a. PERCENTAGE
						b. Date: 03/01/03
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT T
Asbestos	F/CC	0.0037	F/CC	NA	S/mm <sup>2</sup>	ND

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

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.)

10a. (PRE) CALI- BRATION DATE 10/03	10b. FLOW RATE CALCULATIONS 10 l/min	10c. (POST) CALI- BRATION DATE 10/21/03	10d. FLOW RATE CALCULATIONS 10 l/min
---	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 10/21/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	--

*36*

Date: 10/20/03

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 10/20/03

Location: VA Hospital Bldg. 300 Room 118B

Abatement Company: UEI Phone Number: [REDACTED]

Abatement Supervisor: Felipe Gomez Barajas

Type of ACM: Pipe Insulations

Quantity of ACM: 25 Linear Ft.

Abatement Type & Method(s): Removal/ Dry 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: \_\_\_\_\_
  - 3. Perimeter: SX030218
  - 4. Inside Work Area: SX030219

88-37

5. Clearance: SX030255

6. VAIH 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: Mini 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 1st, Rooms 118B 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 10/21/03 are as follows:  
Bldg. 300 Floor: 1st Room: 118B ND 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 / Zainul Huda

85-38

# 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:** 90594      Date Received: 10-21-03      Filter Type: NICE      Filter Area: 385  
**Client:** VAGLAIIS      Date Analysed: 10-22-03      Mag: 400x      Field Area: 0.00785MMI  
**Address:** 11301 WILSHIRE BLVD      Date Sampled: 10-20-03      Project #: B 300 RMI 118B      Filter Size: 25MMI  
 LOS ANGELES, CA 90073      Attention: B SPIVEY      File Name: 90594V.AGLAIIS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX030218	100	17.5	22	8583	2325.0	0.0037	0.0012	0.0132	0.0002
SX030219	OVERLOADED				1080.0	NA			

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. 7795      CARL BERGMAN  
 I.D. 2033      JEFF WAN  
 I.D. 3276      S.AHMAD

R.M. Kolck, Laboratory Director  
*B.M. Kola*

Interlaboratory Sr is taken as 0.45      Intra-laboratory Sr is 0.3      Confidence interval is based on MIOS117400 with a subjective coefficient of variability = 0.3  
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*88-39*





# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 90635 Verbal Results 10-23-03 at 12:00 noon  
 Client VA G LAH Date Received 10-23-03 FAX Results \_\_\_\_\_  
 Reference No. B-300 210 118 B Date Analyzed 10-23-03

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 <u>X</u>
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, >1.0 µm Length _____

ANALYTICAL SENSITIVITY (Structures/cc)

95% CONFIDENCE LEVELS	Lower Limit	Upper Limit

Sample Identification 5X030255 Volume (L) 1980 Structures/mm<sup>2</sup> ND Structures/cc ND 0.001

"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 (Yamato, et al.)  
 NIOSH 7402, Revision #1: 5/15/89 (NIOSH 7400 PCM equivalent range)

*RTM Audit*  
*10-23-03*

**EMS LABORATORIES** 117 West Bellevue Drive / Pasadena CA 91105-2503 / 626-568-4065

DATE: October 23, 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-C30452. B 300 Rm 118 B  
DATE COLLECTED: 10/21/03 by James Spencer  
REPORT NO: 90635  
DATE RECEIVED: 10/23/03 at 1005  
DATE ANALYZED: 10/23/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX030255

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.

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.

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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.



SUBMITTAL FORM/Laboratory Services

90635

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

RELINQUISHED BY Zadmal  
 TIME / DATE 10/21/03  
 DATE OF SHIPMENT 10/21 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B 300 Rm 118B  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA-GLAHS (1306)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 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 10/21/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME James Spsher  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)				VOLUME	
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	TIME WEIGHT IF APPLICABLE
90635-55	SX030255	Asbestos Clearance		TEM	1980
90635.1-56	SX030256	Mold Clearance		Mold	75
Results needed by 10 AM on 10/23/03					

(SF 5/00)

FOR EM ILY

Laboratory No. 90635 Received By [Signature] Time 10:05  
 Date of Package Delivery 10-23-03 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 171 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10-23-03 Misc. Info. 89-43  
 Disposition of Samples EMG 11/17


# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 90635  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/23/03  
 ▶ Date Analyzed 10/23/03  
 ▶ 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"/>
		PCMC Range* <input type="checkbox"/>
		0.25 µm Width <input type="checkbox"/>
		0.5 µm Length <input type="checkbox"/>

Sample Identification	Volume (l)	Mass (g)	Structure	Analytical Sensitivity	95% CONFIDENCE LEVELS
SX 030255	1980	N.D.	N.D.	0.005	Lower Limit: _____ Upper Limit: _____

SX 030255      1980      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.)
  - PCMC 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: 90635  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1980 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030255  
 RECEIVED: 10/23/03 ANALYZED: 10/23/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0384  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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 TO HEAVY DEBRIS

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

85-45





8548





## AIR SAMPLING DATA

1. FACILITY IDENTIFICATION VA-GLAHS		2. STATION NO. 619		3. REGION NO. VISN #22	
4. EMPLOYEE INFORMATION					
a. 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 : 10/24/03 Project: Floor Tile & Mastic Removal Contractor: Unlimited Environmental, Inc. Location: Bldg. 500 Room. Pod A Floor : 3 <sup>rd</sup> Floor West					
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_BG	SAMPL_Decon	SAMPLE - Negative	SAMPLE __
a. SAMPLE TYPE/MEDIA		PCM	PCM	PCM	
b. SAMPLE SUBMISSION NO.		SX030257	SX030258	SX030259	
c. TIME ON		07:31	13:00	13:06	
d. TIME OFF		9:37	15:05	15:09	
e. TOTAL TIME (In minutes)		126	125	123	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min		10	10	10	
g. VOLUME (In liters)		1,260	1,250	1,230	
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
Asbestos		f/cc	0.0023	f/cc	0.0004
				F/cc	0.0008
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 10/24/03		10b. FLOW RATE CALCULATIONS 10 liters/minute		10c. (POST) CALI- BRATION DATE 10/24/03	
				10d. FLOW RATE CALCULATIONS 10 liters/minute	
11. NAME & JOB TITLE (Person Performing Sampling) James Spencer/Zainul Abedin				DATE 10/24/03	
USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..					

85-49



Department of Veterans Affairs

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	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 :** 10/27/03  
**Project:** Floor Tile & Mastic Removal: Clearance Sampling  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 500 Room. Pod A Floor : 3<sup>rd</sup> Floor West

i. FREQUENCY (How long job takes) N/A	L 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 <u>Inside</u>	SAMPLE __	SAMPLE __	SAMPLE __
a. SAMPLE TYPE/MEDIA	TEM/Clearance			
b. SAMPLE SUBMISSION NO.	SX030260			
c. TIME ON	07:041			
d. TIME OFF	09:06			
e. TOTAL TIME (In minutes)	122			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> l <sup>2</sup> /min	10			
g. VOLUME (In liters)	1,220			

6. RESULTS (For Laboratory Use)									
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average							a. PERCENTAGE		DATE
							b. TYPE		
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	RESULT	RESULT	DATE
Asbestos	f/mm <sup>3</sup>	ND							10/27/03

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 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 10/27/03	10b. FLOW RATE CALCULATIONS 10 liters/minute	10c. (POST) CALI- BRATION DATE 10/27/03	10d. FLOW RATE CALCULATIONS 10 liters/minute
11. NAME & JOB TITLE (Person Performing Sampling) James Spencer/Zainul Abedin		DATE 10/27/03	USE REVERSE FOR ADDITIONAL NOTES WHE USING REVERSE REFER TO ITEM NO..

*Handwritten:* 25-50

Date: 10/24/03

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: James Spencer

Abatement Dates: 10/24/03

Location: VA Hospital Bldg. 500 Room Pod A 3<sup>rd</sup> Floor West

Abatement Company: Unlimited Environmental, Inc.

Phone Number: [REDACTED]

Abatement Supervisor: Rogelio Romano

Type of ACM: 12" X 12" Floor Tile & Mastic

Quantity of ACM: Approximately 100 ft<sup>2</sup>

Abatement Type & Method(s): Removal Wet

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 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: SX030257
- 3. Perimeter:     : SX030258, SX030259

*Handwritten signature/initials*  
20-51

4. Inside Work Area: :

5. Clearance: : SX030260

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: 3<sup>rd</sup> West, Rooms: Pod A 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 10/27/03 are as follows:

Bldg. <u>500</u>	Floor: <u>3W</u>	Room: <u>Pod A</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

Comments :

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

Industrial Hygienist : James Spencer / Zairul Akmal

25-52

# 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: 90712.1 Date Received: 10-28-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 11-4-03 Mag: 400x Field Area: 0.06785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 10/24,27/03 Project #: B 500 JW POD A Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 90712.1VAGLAHS-AIR

Sample I.D.	Fibers Counted	F/Sq.mm	Filter/Filter	Volume(Lit.)	Fibers/CC	LOD	LOQ	ANLSENT
SX030257	100	8	2943	1260.0	0.0023	0.0021	0.0244	0.0004
SX030258	100	1	490	1250.0	0.0004	0.0022	0.0246	0.0004
SX030259	100	3	981	1230.0	0.0008	0.0022	0.0250	0.0004

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.mm)

LOQ = LIMIT OF QUANTITATION (80 FIBERS/ Sq mm)

ANLSENT = ANALYTICAL SENSITIVITY (H FIRPR/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 Sahmad

B.M. Kolk, Laboratory Director

Intralaboratory Si is taken as 0.45 Intralaboratory Si 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: 626-796-5787

DATE: October 28, 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-C30452  
B 500 3W Pod A  
DATE COLLECTED: 10/24, 27/03 by James Spencer  
REPORT NO: 90712  
DATE RECEIVED: 10/28/03 at 0945  
DATE ANALYZED: 10/28/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

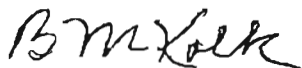
The sample was identified as: SX03260

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.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

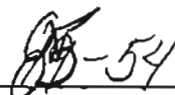
NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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.

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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.



**SUBMITTAL FORM** / Laboratory Services

90712

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

RELINQUISHED BY Zain ul

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

TIME / DATE 10/27/03

DATE OF SHIPMENT 10/27 CARRIER \_\_\_\_\_

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

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

CLIENT JOB/PROJECT ID NO(S) B 500 3W Pod A

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 10/24/03 & 10/27/03

SAMPLE PRESERVATIVES No HOLDING TIMES None

NO. OF SAMPLES SENT 4 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 VOLUME TIME WEIGHT IF APPLICABLE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT	IF APPLICABLE
90712.1 7	SX030257	Background	Inside	PCM	1260			
↓ 8	SX03258	Area / Decon	North	PCM	1250			
↓ 9	SX03259	Area / Negative Area		PCM	1230			
90712. - 60	SX03260	Inside Clearance		TEM	1220			

Note: TEM Results needed by 12 Noon on 10/28/03  
 PCM - STD.

(SF 5/00)

FOR EMS ONLY

Laboratory No. 90712 Received By [Signature] Time 9:45

Date of Package Delivery 10-28-03 Shipping [ ] 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 1+3 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 10-28-03 Misc. Info. \_\_\_\_\_

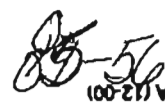
Disposition of Samples EMS LAB \_\_\_\_\_

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 90712      10/28/03      ▶ Verbal Results  
 ▶ Client V.A.G.L.A.H.S.      10/28/03      ▶ Fax Results  
 ▶ Location \_\_\_\_\_      Date Analyzed \_\_\_\_\_

DIRECT PREP	<input checked="" type="checkbox"/>	ASPECT RATIO	3:1	STRUCTURE SIZE	All Sizes (EPA)	<input type="checkbox"/>	0.5 μm Length	<input type="checkbox"/>	1 μm Length	<input checked="" type="checkbox"/>	PCM Range*	<input type="checkbox"/>	1 μm Length	<input type="checkbox"/>	1 - 25 μm Width	<input type="checkbox"/>	50 μm Length	<input type="checkbox"/>
INDIRECT PREP	<input type="checkbox"/>																	
LEVEL I	<input type="checkbox"/>																	
LEVEL II	<input type="checkbox"/>																	

Sample ID	Volume (L)	Mass (g)	Structure Size	95% CONFIDENCE LEVELS		
				Lower Limit	Upper Limit	
SX 03260	1220	-	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: 90712  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1220 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 03260  
 RECEIVED: 10/28/03 ANALYZED: 10/28/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0672  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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.	

COMMENTS: LIGHT TO MODERATE DEBRIS

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

*05-57*

# TEM ASBESTOS ANALYSIS

EMS Lab No. 9072  
 Client VAGLAIH  
 Sample No. SX03260

**METHOD OF ANALYSIS**  
 EPA Yarnette 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, >50 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

G.O. Area (mm²) 0.0296  
 No. of G.O. to Analyze 7

## ANALYSIS

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 122 ml  
 Working Volume 220 ml  
 Weight 10 grams  
 Ashed Area 10 %  
 Date 10-28-03  
 Prepared By SFA

Grid Address 1900  
 Screen Magnification 2000  
 Camera Constant 100  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

**A**  
 Date 10-28  
 Analyst lalk

## RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Anfibonous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
1-6		N/A														
4-4		N/A														
2-1		N/A														

**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**

85-59



# AIR SAMPLING DATA

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

4. EMPLOYEE INFORMATION  
 a. NAME OF EMPLOYEE: [REDACTED]  
 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):

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

Date: October 30, 2003  
 Project: Removal of ACM Pipe Insulation (TSI) in the Middle Dry Method Removal under HEPA Vacuum & exhaust, Containment and Jack Hammer  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 295 Room: Boiler Floor: 2<sup>nd</sup> Deck

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

6. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 01 BG	SAMPLE 02 Perimeter	SAMPLE 03 inside- 10/31/03	SAMPLE 04	SAMPLE 05	SAMPLE 6
1. SAMPLE TYPE/MEDIA	PCM/BG	PCM/Area	TEM/Clearance			
2. SAMPLE SUBMISSION NO.	SX030261	SX030262	SX020263			
3. TIME ON	08:15	12:50	07:35			
4. TIME OFF	09:38	14:10	09:40			
5. TIME (in minutes)	123	80	125			
6. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/min	15	15	10			
7. VOLUME (in liters)	1245	1200	1250			

6. RESULTS (For Laboratory Use)  
 a. PERCENTAGE  
 b. Date:

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

SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0032	F/CC	0.011	S/MM <sup>2</sup>	ND				

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

10. IHC COMMENTS TO LABORATORY  
 PCM/TEM

11a. ANALYTICAL LABORATORY NAME: EMS Laboratories  
 11b. ADDRESS: 117 West Bellevue Pasadena, CA 91105-2503  
 11c. AIHA ACCREDITATION NUMBER: NVLAP # 101218  
 11d. PAT NUMBER:

12. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

13a. (PRE) CALIBRATION DATE: 10/30/03 & 10/31/03  
 13b. FLOW RATE CALCULATIONS: 10/15 l/min  
 13c. (POST) CALIBRATION DATE: 10/30/03 & 10/31/03  
 13d. FLOW RATE CALCULATIONS: 10/15 l/min

14. NAME & JOB TITLE (Person Performing Sampling): James Spencer  
 DATE: 10/30/03 & 10/31/03  
 USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.:

*Handwritten signature/initials: 85-61*

Date: October 30, 2003

From: Industrial Hygiene (130B)

Obj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 10/30/03

Location: VA Hospital Bldg. 295, Boiler Room 2<sup>nd</sup> Deck

Abatement Company: Unlimited Environmental, Inc. Phone Number: [REDACTED]

Abatement Supervisor: Felipe Barajas Jr.

Type of ACM: ACM Pipe Insulation (TSI)

Quantity of ACM: 15 lft.

Abatement Type & Method(s): Friable/ Wet Method/HEPA Vacuum & Exhaust and Mini Containment

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      No X  
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: SX030261

3. Perimeter: SX030262

*05-62*

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX030263 on 10/31/03
6. VAJH 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 \_\_\_\_\_ 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: 1 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: Vac. Only Yes X No \_\_\_\_\_
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_\_\_ 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. 295 Floor 2<sup>nd</sup> Rooms Boiler 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 10/31/03 are as follows:
- |                  |                      |                                  |           |                            |
|------------------|----------------------|----------------------------------|-----------|----------------------------|
| Bldg. <u>295</u> | Floor: <u>Boiler</u> | Room: <u>2<sup>nd</sup> Deck</u> | <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

*85-63*

**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: 90828.1 Date Received: 11-3-03 Filter Type: MCE Filter Area: 185  
 Client: VAGLAHS Date Analyzed: 11-5-03 Mag: 400x Field Area: 0.007854241  
 Address: 11301 WILSHIRE BLVD Date Sampled: 10-31-03 Project #: BLD 6 #295 Filter Size: 25MM  
 LOS ANGELES, CA 90073 Attention: BSPIVEY File Name: 908281VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX030261	100	8	10	3924	1245.0	0.0032	0.0022	0.0247	0.0004
SX030262	100	28	36	13732	1200.0	0.011	0.0022	0.0257	0.0004

1.00 = 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. = NOKE 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. In-laboratory Sr. is 0.3  
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 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**

*85-64*



05-65

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 90828 Verbal Results 11-3-03  
 Client VA-CALATS Date Received 11-3-03  
 Reference No. Bldg # 295 Date Analyzed 11-3-03 FAX Results \_\_\_\_\_

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

SX030263      1256      17      0.005      0.005

*Handwritten initials/signature*

\*"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 Tenanaly*  
*11/3/03*

# SUBMITTAL FORM/Laboratory Services

# 90828

PAGE

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

RELINQUISHED BY JAMES SPENCEL

CLIENT VA-GLAHS (130b)  
ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
TELEPHONE [REDACTED]  
CONTACT BEN SPIVEY

TIME / DATE 10/31/03  
DATE OF SHIPMENT  CARRIER   
CLIENT P.O. NO.   
CLIENT JOB/PROJECT ID NO(S). ALOG #295  
TSR REMOVAL  
PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 10/31/03  
SAMPLE PRESERVATIVES (271) HOLDING TIMES   
NO. OF SAMPLES SENT 3 SAMPLER'S NAME [Signature]  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER AR

PRINTED JAMES SPENCEL

(FOR EMS ONLY)

EMS Sample No.  
90828-61  
62  
90828-63

CLIENT SAMPLE NO	DESCRIPTION	LOCATION	ANALYSIS	
<u>SX030261</u>	<u>BLDG # 295 2ND LEVEL</u>	<u>WORK AREA</u>	<u>PCM</u>	<u>1245</u>
<u>SX030262</u>	<u>BLDG # 295 1ST LEVEL</u>	<u>OUTSIDE DECK</u>	<u>PCM</u>	<u>1200</u>
<u>SX030263</u>	<u>BLDG 295 2ND LEVEL</u>	<u>INSIDE OUTSIDE WEST</u>	<u>TEM (RUSH)</u>	<u>1250</u>

(SF 5/00)

Laboratory No. 90828 Received By [Signature] Time 9:30  
 Date of Package Delivery 11-3-03 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 + 1 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 11-3-03 Misc. Info. EMS ONLY  
 Disposition of Samples [Signature]

85-67

# AIR SAMPLING DATA

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

<b>4. EMPLOYEE INFORMATION</b>		
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: November 19, 2003  
 Project: Removal of 12"x12" VAT & Mastic.  
Wet Method Removal  
 Contractor: P.W. Stephens, Inc.  
 Location: Bldg. 501 Room: \_\_\_\_\_ Floor: Roof

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 11/19/03	SAMPLE 02 11/19/03	SAMPLE 03 11/20/03	SAMPLE 04 11/20/03	SAMPLE 05	SAMPLE 6
a. SAMPLE TYPE/MEDIA	A-Upwind/PCM	A-Downwind/PCM	Upwind/PCM	Downwind/PCM		
b. SAMPLE SUBMISSION NO.	SX030281	SX030282	SX030283	SX030284		
c. TIME ON	9:35	09:38	09:35	09:37		
d. TIME OFF	14:45	14:51	13:22	13:25		
e. TOTAL TIME (in minutes)	310	313	227	228		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	3.5	3.5	15	15		
g. VOLUME (in liters)	1085	1090	3405	3420		

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 : 10-31-03

SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0014	F/CC	0.0016	F/CC	0.0007	F/CC	0.0016		

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy (PCM)  
 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 11/09/03	10b. FLOW RATE CALCULATIONS 3.5 l/min.	10c. (POST) CALI-BRATION DATE 11/20/03	10d. FLOW RATE CALCULATIONS 15 l/min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 11/20/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	--

*Handwritten signature/initials*

Date: November 20, 2003

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 11/19/03

Location: VA Hospital Bldg. 501, Roof

Abatement Company: P. W. Stephens, Inc. Phone Number: [REDACTED]

Abatement Supervisor: Mr. John

Type of ACM: Roof Flashing and Mastic

Quantity of ACM:          ft<sup>2</sup>

Abatement Type & Method(s): Non-Friable/ 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 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:

*Handwritten signature/initials: JS-09*

3. Perimeter: SX030281-82 on 11/19/03 & SX030283-84 on 11/20/03
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 \_\_\_ 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: 1 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 \_\_\_
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_ No \_\_\_
- G. Amended Water Used: Yes X No \_\_\_ How Applied: Spray
- H. External AFD Filters Replaced Daily: Yes \_\_\_ 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. 501 Floor Roof 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 \_\_\_ are as follows:  
 Bldg. \_\_\_ Floor: \_\_\_ Room: \_\_\_ Structures/mm<sup>2</sup>  
 Floor: \_\_\_ Room: \_\_\_ Structures/mm<sup>2</sup>  
 Floor: \_\_\_ Room: \_\_\_ fibers/cc  
 Floor: \_\_\_ Room: \_\_\_ fibers/cc

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

Industrial Hygienist: James Spencer

85-70

# NIOSH FIBER COUNT (METH 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:** 91150      **Date Received:** 11-21-03      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 11-21-03      **Mag:** 400X      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 11/19,20/03      **Project #:** B 501 ROOF      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 91150VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/ Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX030281	100	3	4	1471	1085.0	0.0014	0.0025	0.0284	0.0005
SX030282	100	3.5	4	1717	1095.0	0.0016	0.0025	0.0281	0.0004
SX030283	100	5	6	2452	3405.0	0.0007	0.0008	0.0090	0.0001
SX030284	100	11	14	5395	3420.0	0.0016	0.0008	0.0090	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**

B.M. Kolk, Laboratory Director

Interlaboratory Sr. is taken as 0.45 Intralaboratory Sr. is 0.3  
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**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

*Handwritten initials/signature*

**SUBMITTAL FORM** *Laboratory Services*

91150

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

REINQUISHED BY Zairand

CLIENT VA GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

TIME / DATE 11/20/03  
 DATE OF SHIPMENT 11/20 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B501 Roof  
 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 11/19/03 & 11/20/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 4 SAMPLER'S NAME James Spender  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
SIGNATURE PRINTED

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
91150-1	SX030281	Upwind Area	PCM	1085
2	SX030282	Downwind Area	PCM	1095
3	SX030283	Upwind Area	PCM	3405
4	SX030284	Downwind Area	PCM	3420
[Large Signature]				

FOR EMS ONLY (SF 5/00)

Laboratory No. 91150 Received By [Signature] Time 9:30  
 Date of Package Delivery 11-21-03 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt OK Condition of Custody Seal used  
 (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 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 11/21/03 Misc. Info. [Signature]  
 Disposition of Samples EMS LAB



# AIR SAMPLING DATA

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

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

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

e. 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: November 05, 2003  
 Project: Removal of Duct Wrap  
Wet Method Removal  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 301 Room:      Floor: Roof

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 05	SAMPLE 06
a. SAMPLE TYPE/MEDIA	BG/PCM	BG/PCM				
b. SAMPLE SUBMISSION NO.	SX030265	SX030266				
c. TIME ON	07:30	09:35				
d. TIME OFF	09:15	11:10				
e. TOTAL TIME (In minutes)	105	95				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	15	15				
g. VOLUME (In liters)	1575	1425				

6. RESULTS (For Laboratory Use)											
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average						a. PERCENTAGE					
b. Date: 11-05-03											
SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESU T	UNIT	RESU LT	UNIT	RESU LT	
Asbestos	F/CC	0.0036	F/CC	0.0034							

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy (PCM)  
 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 11/05/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI- BRATION DATE 11/05/03	10d. FLOW RATE CALCULATIONS 15 l/min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 11/05/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
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85-73

Date: November 05, 2003

From: Industrial Hygiene (I30B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 11/05/03

Location: VA Hospital Bldg. 301, Roof

Abatement Company: Unlimited Environment Phone Number: [REDACTED]

Abatement Supervisor: James Lovico

Type of ACM: ACM Duct Wrap

Quantity of ACM: 25 ft<sup>2</sup>

Abatement Type & Method(s): Non-Friable/ 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 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: SX030265 on 11/05/03

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

4. Inside Work Area: SX030266 on 11/05/03

*85-74*

5. Clearance: \_\_\_\_\_

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 \_\_\_\_\_ No X Thickness of Polyethylene: N/A

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

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

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

F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_\_\_ 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. 301 Floor Roof. 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 \_\_\_\_\_ are as follows:  
Bldg. 301 Floor: Roof Room: \_\_\_\_\_ 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

85-75

# 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: 91101 Date Received: 11-19-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 11-20-03 Mag: 400x Field Area: 0.007851M  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11-5-03 Project #: B 301 ROOF Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 91101VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX030265	100	11.5	15	5640	1575.0	0.0036	0.0017	0.0196	0.0003
SX030266	100	10	13	4904	1425.0	0.0034	0.0019	0.0216	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. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S.AHMAD

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

*85-76*

85-77

# SUBMITTAL FORM/Laboratory Services

91101

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

REINQUIRED BY Zawml  
 TIME / DATE 11/18/03

CLIENT VA-GLAS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 11/5 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B 301 Roof  
 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 11/5/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME James Spence  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

SIGNATURE PRINTED

(FOR EMS ONLY)

VOLUME  
 TIME WEIGHT  
 IF APPLICABLE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
91101-65	SX030265	Background	East Side	PCM	1575
↓ 66	SX030266	Area	East	PCM	1425
[Large handwritten scribble]					

(SF 5/00)

FOR EMS

91101  
 Laboratory No. \_\_\_\_\_ Received By [Signature] Time 9:30  
 Date of Package Delivery 11-14-03 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 2 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 11-14-03 Misc. Info. \_\_\_\_\_  
 Disposition of Samples EMS WAP

# 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**

a. PERSONAL PROTECTIVE EQUIPMENT USED	b. MANUFACTURER <b>N/A</b>	i. 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: November 13, 2003**  
**Project: Removal of 12"x12" & 9"x9" Floor Tiles and Mastic.**  
**Wet Method Removal under HEPA Vacuum & exhaust, and Containment**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 114 Room: 108 Floor: 1<sup>st</sup> 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 #)	SAMPLE 01 11/13/03	SAMPLE 02 11/14/03	SAMPLE 03 11/14/03	SAMPLE 04 11/14/03	SAMPLE 05 11/17/03	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BG/PCM	BG/PCM	Area/PCM	Decon/PCM	Area/PCM	
b. SAMPLE SUBMISSION NO.	SX030270	SX030271	SX030272	SX0303273	SX030274	
c. TIME ON	8:30	8:20	14:05	12:00	8:10	
d. TIME OFF	10:32	9:40	15:25	13:20	15:13	
e. TOTAL TIME (In minutes)	122	80	80	80	423	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	10	15	15	15	4	
g. VOLUME (in liters)	1222	1200	1200	1200	1692	

6. RESULTS (For Laboratory Use)

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

a. PERCENTAGE									
b. Date: 11-17-03									

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0323	F/CC	0.0358	F/CC	0.0469	F/CC	0.0072	F/CC	0.0200

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

Phase Contrast Microscopy (PCM)  
 Transmission Electron Microscopy (TEM)

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 Pasadena, CA 91105-2503</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE <b>11/13/03</b>	10b. FLOW RATE CALCULATIONS <b>15 l/min</b>	10c. (POST) CALIBRATION DATE <b>11/17/03</b>	10d. FLOW RATE CALCULATIONS <b>15 l/min</b>
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>11/17/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
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**85-79**

# 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. 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)	

h. 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: November 17, 2003  
 Project: Removal of 12"x12" & 9"x9" Floor Tiles and Mastic.  
Wet Method Removal under HEPA Vacuum & exhaust, and Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 114 Room: 108 Floor: 1<sup>st</sup> Floor

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

### 5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 01 11/18/03	SAMPLE 02 11/19/03	SAMPLE 03 11/19/03	SAMPLE 04 11/20/03	SAMPLE 05 11/17/03	SAMPLE 6
a. SAMPLE TYPE/MEDIA	Area/PCM	CL/TEM	Decon/PCM	CL/TEM		
b. SAMPLE SUBMISSION NO.	SX030277	SX030278	SX030279	SX0303280		
c. TIME ON	10:15	13:40	08:15	08:20		
d. TIME OFF	13:00	15:20	14:30	10:25		
e. TOTAL TIME (In minutes)	165	100	375	125		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	3.5	15		
g. VOLUME (in liters)	2475	1500	1315	1875		

### 6. RESULTS (For Laboratory Use)

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

SUBSTANCE ↓	UNIT	RESULT		UNIT	RESULT		UNIT	RESULT		UNIT	RESULT	
		UNIT	RESULT		UNIT	RESULT		UNIT	RESULT			
Asbestos	F/CC		0.0024	S/mm <sup>2</sup>		ND	F/CC		0.0073	S/mm <sup>2</sup>		ND

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

8. IAH COMMENTS TO LABORATORY  
 PCM & TEM

9a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	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 11/18/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI-BRATION DATE 11/20/03	10d. FLOW RATE CALCULATIONS 15 l/min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 11/20/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
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85-80



Date: November 20, 2003

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 11/13/03 to 11/19/03

Location: VA Hospital Bldg. 114, Room 108

Abatement Company: Unlimited Environment Phone Number: [REDACTED]

Abatement Supervisor: Rojelio Romano

Type of ACM: ACM Pipe Insulation (TSI) & Fittings

Quantity of ACM: 1100 ft<sup>2</sup>

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

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: SX030270 on 11/13/03 & SX030271 on 11/14/03
  - 3. Perimeter: SX030273 & SX030279 on 11/14/03 & 11/19/03
  - 4. Inside Work Area: SX030272 - SX030277 on 11/14/03 to 11/19/03

*AS-81*

5. Clearance: SX030278 & SX030280 on 11/19/03 & 11/20/03

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      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: 1 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. 114 Floor 1st. Rooms 108 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 11/20/03 are as follows:  
Bldg. 114 Floor: 1<sup>st</sup> Room: 108 ND 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

*JS-82*

85-83

# SUBMITTAL FORM/Laboratory Services

91151

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

RELINQUISHED BY Zainul  
 TIME / DATE 11/20/03  
 DATE OF SHIPMENT 11/20 CARRIER  
 CLIENT P.O. NO.  
 CLIENT JOB/PROJECT ID NO(S) B114 Room 108  
 PACKAGE SHIPPED FROM

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 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 11/18/03, 11/19/03 & 11/20/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES No  
 NO. OF SAMPLES SENT 3 (2+) SAMPLER'S NAME James Spencel  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

SIGNATURE PRINTED

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO.

DESCRIPTION/LOCATION/ANALYSIS

VOLUME  
TIME/WEIGHT  
(IF APPLICABLE)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME/WEIGHT (IF APPLICABLE)
91151-28	SX030278	Room 108A Clearance	TEM 1500
91151.1-79	SX030279	Room 108 Decon	PCM 1315
91151-80	SX030280	Room 108 Clearance	TEM 1875

FOR EMS ONLY (SF 5/00)

Laboratory No. 91151  
 Date of Package Delivery 11-21-03  
 Condition of Package on Receipt ca  
 (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  
 Date of Acceptance into Sample Bank 11-21-03  
 Received By [Signature] Time 10:00  
 Shipping Bill Retained: YES  NONE   
 Condition of Custody Seal [Signature]  
 Chain-of-Custody Signature [Signature]  
 Misc. Info. 85-87

**NIOSH FIBER COUNT (METHOD 7000, 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: 91151.1 Date Received: 11-21-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 11-21-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11/18-20/03 Project #: B 114 RM 108 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 91151.VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX030279	100	19.5	25	1315.0	0.0073	0.0020	0.0234	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  
 I.D. 7795 CARI BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S.AHMAD

B.M. Kolk, Laboratory Director

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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**EMS LABORATORIES 117 West Bellevue Dr. Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

915-25

DATE: November 24, 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-C30452, Bldg 114 Rm. 108  
REPORT NO: 91151  
DATE RECEIVED: 11/21/03 at 1000  
DATE ANALYZED: 11/21/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: SX030278  
SX030280

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.

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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.



95-86

SUBMITTAL FORM / Laboratory Services

91151

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

RELINQUISHED BY Zainul

TIME / DATE 11/20/03

CLIENT VA-GLAHS (130b)

DATE OF SHIPMENT 11/20 CARRIER

ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

CLIENT P.O. NO.

CLIENT JOB/PROJECT ID NO(S). B114 Room 108

TELEPHONE [REDACTED]  
CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 11/18/03, 11/19/03 & 11/20/03

SAMPLE PRESERVATIVES No HOLDING TIMES No

NO. OF SAMPLES SENT 3 (2+1) SAMPLER'S NAME James Spenced  
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)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME	TIME WEIGHT (IF APPLICABLE)
91151-78	SX030278	Room 108A Clearance	TEM	1500
91151.1-79	SX030279	Room 108 Decon	PCM	1315
91151-80	SX030280	Room 108 Clearance	TEM	1875

Laboratory No. 91151

Received By [Signature] Time 10:00

Date of Package Delivery 11-21-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal

No. of Samples 2+1 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 11-21-03 Misc. Info. 85-87

Disposition of Samples EMS LAB

FOR ENVIRONMENTAL (SF 5/00)

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 91151  
 ▶ Client V.A.G.L.A.R.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 11/21/03  
 ▶ Date Analyzed 11/21/03  
 ▶ Verbal Results \_\_\_\_\_  
 ▶ Fax Results \_\_\_\_\_

DIRECT PREP  ASPECT RATIO 3.3 STRUCTURE SIZE 2.5  $\mu$ m Length  
 INDIRECT PREP  5.1  $\mu$ m Length PCM Range\* 1  $\mu$ m Length  
 LEVEL I  1  $\mu$ m Length 1  $\mu$ m Length  
 LEVEL II  1  $\mu$ m Length 1  $\mu$ m Length

Sample Identification	Volume (l)	Mass (g)	95% CONFIDENCE LEVELS	
			Lower Limit	Upper Limit

SX 030278	1500	N.D.	N.D.	0.005	0	0.02
SX 030280	1375	N.D.	N.D.	0.005	0	0.02

85-88  
 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: \_\_\_\_\_



85-89

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 91151  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1500 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030278  
 RECEIVED: 11/21/03 ANALYZED: 11/21/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0,048  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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: MODERATE DEBRIS

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

95-90





TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 91151  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1375 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030280  
 RECEIVED: 11/21/03 ANALYZED: 11/21/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0576  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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.

85-93



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85-95





**SUBMITTAL FORM** / Laboratory Services

91102

TURNAROUND TIME: STD  48 HR  24 HR   
 3 HR  WKND  OTHER

PREPARED BY Zawink

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

TIME / DATE 11/18/03  
 DATE OF SHIPMENT 4/13 CARRIER [REDACTED]  
 CLIENT P.O. NO. to 11/17/03  
 CLIENT JOB/PROJECT ID NO(S) 13114 Room 108  
 PACKAGE SHIPPED FROM [REDACTED]

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

DATE/TIME OF SAMPLE COLLECTION 11/13, 11/14, 11/17/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 56 SAMPLER'S NAME James Spence  
SIGNATURE PRINTED

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO.

DESCRIPTION OF ANALYSIS

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION OF ANALYSIS	TIME
91102-70	SX030270	Background 108A	PCM 1222
71	SX030271	Background 108C	" 1200
72	SX030272	Area / Decon 108A	" 1200
73	SX030273	Area / Neg 108A	" 1200
74	SX030274	Area / Decon 108C	" 1692
77	SX030277	Area / Decon 108	" 2475

91102

(SF 500)

FOR EIL ONLY

Laboratory No. 91102 Received By [Signature] Time 9:30  
 Date of Package Delivery 11-19-03 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 6 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 11-19-03 Misc. Info [Signature]  
 Disposition of Samples EMS Lab

# 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: 91102 Date Received: 11-19-03 Filter Type: MCE Filter Area: 365  
 Client: VAGLAHS Date Analyzed: 11-20-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11/13,14,17/03 Project #: B 114 RM 188 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 91102VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (L <sub>h</sub> )	Fibers/CC	LOD	LOQ	ANL-SENT
SX030270	100	80.5	103	39481	1222.0	0.0373	0.0022	0.0252	0.0004
SX030271	100	87.5	111	42914	1200.0	0.0358	0.0022	0.0257	0.0004
SX030272	88	101	146	56290	1200.0	0.0469	0.0022	0.0257	0.0004
SX030273	100	17.5	22	8583	1200.0	0.0072	0.0022	0.0257	0.0004
SX030274	100	68	87	33350	1692.0	0.020	0.0016	0.0182	0.0003
SX030277	100	12	15	5885	2475.0	0.0024	0.0011	0.0124	0.0002

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 B.M. Kolk, Laboratory Director  
 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  
 NOTE: This report should not be interpreted, tested 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

98-98

# AIR SAMPLING DATA

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

NAME OF EMPLOYEE <b>[REDACTED]</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: November 25, 2003  
 Project: Removal of ACM Pipe Elbow Insulation (TSI).  
 Wet Method Removal under HEPA Vacuum & exhaust, and Mini Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 212 Room: 07 Floor: Ground Floor

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**

(Fill in Sample No.)	SAMPLE 01	SAMPLE 02	SAMPLE 03 11/26/03	SAMPLE 04	SAMPLE 05	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BG/PCM	Decon Arca/PCM	CL/TEM			
b. SAMPLE SUBMISSION NO.	SX030290	SX030291	SX030292			
c. TIME ON	11:40	14:30	12:40			
d. TIME OFF	13:30	15:30	14:00			
e. TOTAL TIME (In minutes)	110	60	80			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m/min	15	15	15			
g. VOLUME (In liters)	1650	900	1200			

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

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

a. PERCENTAGE										
b. Date: 11-25-03										
SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0031	F/CC	0.0016	S/mm <sup>2</sup>	ND				

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

9c. (PRE) CALI- BRATION DATE 11/25/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI- BRATION DATE 11/26/03	10d. FLOW RATE CALCULATIONS 15 l/min
---	---	---	---

11 NAME & JOB TITLE (Person Performing Sampling) <b>James Spencer</b>	DATE <b>11/26/03</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
--	-------------------------	--

*85-99*

Date: November 26, 2003

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 11/25/03

Location: VA Hospital Bldg. 295, West Catwalk at 2<sup>nd</sup> Level

Abatement Company: Unlimited Environment Phone Number: [REDACTED]

Abatement Supervisor: Rojelio Romano

Type of ACM: ACM Pipe Insulation (TSI)

Quantity of ACM: 10 Nos

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

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: 11/25/03

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

*85-100*

\_\_\_\_\_

85-101

3. Perimeter: SX030291 on 11/25/03
4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX030292 on 11/26/03
6. VAJH 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 \_\_\_ 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: 1 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 Ground, Rooms 07 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 11/26/03 are as follows:
 

Bldg. <u>212</u>	Floor: <u>Ground</u>	Room: <u>07</u>	<u>ND</u>	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	_____	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	_____	fibers/cc
	Floor: _____	Room: _____	_____	fibers/cc

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

Industrial Hygienist: James Spencer

85-102

**NIOSH FIBER COUNT METHOD, 400, 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: **91252** Date Received: **11-28-03**

Client: **VACGLABS** Date Analyzed: **12-1-03**

Address: **11201 WILSHIRE BLVD** Date Sampled: **11/25/03**

**LOS ANGELES, CA 90073** Airborne: **B SPIREY**

Fiber Type: **MCE**

Magn: **400X**

Project #: **B 212 DM 7**

File Name: **91252VACGLABS.AIR**

Fiber Area: **BA**

Field Area: **0.0875MM**

Fiber Size: **ZIMM**

Sample ID.	Fields Counted	Fibers Counted	F/Sqmm	Fiber/Fiber Volume (µL)	Fibers/CC	LOD	LOQ	ANL SENT.
SX030290	100	10.5	13	5150	0.0031	0.0016	0.0187	0.0003
SX030291	100	5	4	1471	0.0016	0.0030	0.0342	0.0005

*Handwritten:* 103-103

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 **JEPP WAN**

I.D. 3276 **SABMAD**

B.M. Kolk, Laboratory Director

*Signature of Carl Bergman*

Environmental Sr is taken as 0.43 Initial Laboratory Sr is 0.3  
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**EMS LABORATORIES 177 West Bellevue Dr. Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

# SUBMITTAL FORM/Laboratory Services

# 91252

24 HR  48 HR  72 HR  
 12 HR  18 HR  24 HR  
 REL. COURIER BY Ladner  
 TIME / DATE 11/26/03  
 DATE OF SHIPMENT 4/26 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID/NO(S) 8212 Room 7  
 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 11/25/03 to 11/26/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME Ed  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER  
 SIGNATURE \_\_\_\_\_ PRINTED \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION / LOCATION	ANALYSIS	TIME
91252-90	SX030290	Background Inside	PCM	1650
91	SX030291	Area / Decm	PCM	900
91252-92	SX030292	Clearance Inside	TEM	1200

FORM ONLY (SF-5100)

Laboratory No. 91252  
 Date of Package Delivery 11-28-03  
 Condition of Package on Receipt \_\_\_\_\_  
 (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  
 Date of Acceptance into Sample Bank 11-28-03  
 Disposition of Samples CMG  
 Received By \_\_\_\_\_ Time 9:30  
 Shipping and Receipt: YES  NONE   
 Condition of Custody Seal \_\_\_\_\_  
 Chain of Custody Signature \_\_\_\_\_  
 Misc. Info. 815-103



DATE: December 1, 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-C30452, Bldg 212 Room 7  
DATE COLLECTED: 11/25, 26/03 by Ted  
REPORT NO: 91252.1  
DATE RECEIVED: 11/28/03 at 0930  
DATE ANALYZED: 12/1/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX030292

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.

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.





85-107

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 91252.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030292  
 RECEIVED: 11/28/03 ANALYZED: 12/1/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0672  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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.

85-108

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 91252.1      ▶ Date Received 11/28/03      ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S.      ▶ Date Analyzed 12/1/03      ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>		ASPECT RATIO		STRUCTURE SIZE	
INDIRECT PREP <input type="checkbox"/>	5:1 <input type="checkbox"/>	All Sizes (PPA) <input type="checkbox"/>	2.5 µm Length <input type="checkbox"/>	10.5 µm Length <input checked="" type="checkbox"/>	PCM Range <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	1 µm Length <input type="checkbox"/>	7.5 µm Width <input type="checkbox"/>	25 µm Length <input type="checkbox"/>	50 µm Length <input type="checkbox"/>
LEVEL II <input type="checkbox"/>					

Sample Identification	Mass in (µg/m³)	Volume (L)	Mass in (µg)	Structure map	Structure %	Analytical Sensitivity	95% CONFIDENCE LEVELS	
							Lower Limit	Upper Limit

SX 030292	1200	N.D.	N.D.	0.005	0	0.02		
-----------	------	------	------	-------	---	------	--	--

95-109  
 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 ANALYSIS

EMS Lab No. 11252  
 Client VAHLAII  
 Sample No. SX030297

**RECEIVING**

## ANALYSIS

Grid Address: B H600A - Serial No. 542-36-01   
 Screen Magnification: 1970x H600B - Serial No. 542-05-06   
 Camera Constant: 1970 H600C - Serial No. 542-24-03   
 Accelerating Voltage: 100 KV  
 Beam Current: 10  $\mu$ A

Analyst SA Date 06/10

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation					EDS Analysis					Comments				
			Width	Length	Thickness	Chrysotile	Amphibole	Anfibgous	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe		Id			
<u>W36</u>	<u>W36</u>	<u>W36</u>																		
<u>W36</u>	<u>W36</u>	<u>W36</u>																		
<u>W36</u>	<u>W36</u>	<u>W36</u>																		
<u>W36</u>	<u>W36</u>	<u>W36</u>																		

15 Lines

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

# 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
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: November 26, 2003  
 Project: Removal of ACM Pipe Insulation (TSI).  
Wet Method Removal under HEPA Vacuum & exhaust, and Mini Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 295 Room: West Catwalk Floor: 2nd 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
--	---	--

**6. SAMPLING INFORMATION**

(Fill in Sample #)	SAMPLE 01	SAMPLE 02 12/02/03	SAMPLE 03	SAMPLE 04	SAMPLE 05	SAMPLE 6
a. SAMPLE TYPE/MEDIA	Area/TEM	CL/TEM				
b. SAMPLE SUBMISSION NO.	SX030296	SX030297				
c. TIME ON	10:35	09:10				
d. TIME OFF	11:55	10:45				
e. TOTAL TIME (In minutes)	80	95				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	14				
g. VOLUME (in liters)	1200	1330				

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

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

a. PERCENTAGE	b. Date: 11-26-03
---------------	-------------------

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	S/mm <sup>2</sup>	540	S/mm <sup>2</sup>	ND						

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

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 Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 1/26/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI- BRATION DATE 12/02/03	10d. FLOW RATE CALCULATIONS 15 l/min
---	---	---	---

11 NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 12/02/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

*95-112*





- 3. Perimeter: SX030296 on 11/26/03
- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX030297 on 12/02/03
- 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 \_\_\_ No X Properly Taped to Pipes: Yes \_\_\_ No X
- B. Containment: Yes X No \_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes \_\_\_ No N/A 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 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 \_\_\_ N/A 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. 295 Floor 2nd, Rooms Catwalk 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 12/02/03 are as follows:
 

Bldg. <u>295</u>	Floor: <u>2nd</u>	Room: <u>Catwalk</u>	<u>ND</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

85-114

# TEM ANALYSIS

EMS Lab No. 9125  
 Client VARIABLES  
 Sample No. 5XCS0296

**METHOD OF ANALYSIS**  
 EPA Yantle 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\*  
 \*60-25 µm min. -5.0 µm length

**TYPE OF SAMPLE**  
 Air   
 Soil   
 Bulk   
 Wall/   
 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

G.O. Area (mm²) 0.0096  
 No. of G.O. to Analyze 7

## RECEIVING

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 1250 liters  
 Working Volume 297 ml  
 Weight 100 grams  
 Ashed Area 10 %

Date 11-28-00  
 Prepared By KA

## ANALYSIS

Grid Address A  
 Screen Magnification 1940x  
 Camera Constant 297  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

**A**

Page 1 of 1  
 MICROSCOPE

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

Analyst Koch Date 12-1-00

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
130	1	MD	220	350		✓										EDS amorph
130	2	MD	80	180		✓										EDS amorph
130	3	R	2	125		✓										EDS amorph
130	4	MD	100	160		✓										EDS amorph
130	5	R	2	65		✓										EDS amorph
130	6	MD	19	260		✓										EDS amorph
130	7	R	1.5	50		✓										EDS amorph
130	8	R	1.5	15		✓										EDS amorph
130	9	MD	100	190		✓										EDS amorph
130	10	MD	50	80		✓										EDS amorph
130	11	R	2	20		✓										EDS amorph
130	12	R	1	130		✓										EDS amorph
130	13	R	1	40		✓										EDS amorph
130	14	R	1	18		✓										EDS amorph
130	15	MD	6	15		✓										EDS amorph
130	16	R	8	80		✓										EDS amorph

16 Lines

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

EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503 • (626) 568-4065

511-115



30-Nov-2003 09:53:22

91251, 296, A, #02, RS                   Preset=           100 secs  
Vert=    500 counts   Disp= 1           Elapsed=           12 secs  
Energy   Counts    X-Ray Lines

0.55    150.    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    141.    Mg K , Mg K , Mg K

1.75    148.    Si K , Si K

Quantex>

0.000    Range=   10.230 keV                   10.110  
Integral 0 =                   2196

30-Nov-2003 09:54:43

91251, 296, A, #03, RS                   Preset=           100 secs  
Vert=    500 counts   Disp= 1           Elapsed=           10 secs  
Energy   Counts    X-Ray Lines

0.53    594.    O K , O K , V L , Cr L , V L ,  
                  Cr L , V L , V L , Cr L1 , Cr L

0.73    26.    Fe L , Co L , Fe L , Co L , Fe L ,  
                  Fe L , Co L

1.27    161.    Mg K , Mg K , Mg K

1.76    826.    Si K , Si K

6.41    585.    Fe K , Fe K

7.04    60.    Fe K , Fe K

Quantex>

0.000    Range=   10.230 keV                   10.110  
Integral 0 =                   7886

85-117

1-Dec-2003 10:09:48

91251, 296, A, #04, RS	Preset=	100 secs
Vert= 500 counts Disp= 1	Elapsed=	28 secs
Energy Counts X-Ray Lines		
0.53 1813.	O K , O K , V L , Cr L , V L ,	
	Cr L , V L , V L , Cr L1 , Cr L	
1.27 510.	Mg K , Mg K , Mg K	
1.76 2679.	Si K , Si K	
3.70 80.	Ca K , Ca K	
6.40 1523.	Fe K , Fe K	
7.06 197.	Fe K , Fe K	

Quantex>  
0.000 Cursor= 1.240 keV 40 counts 10.110  
Integral 0 = 18520

1-Dec-2003 10:13:41

91251, 296, A, #05, RS	Preset=	100 secs
Vert= 500 counts Disp= 1	Elapsed=	7 secs
Energy Counts X-Ray Lines		
0.54 479.	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	
0.78 16.	Co L , Co L , Co L , Co L	
1.76 551.	Si K , Si K	
5.91 20.	Mn K , Mn K	
6.42 420.	Fe K , Fe K	

Quantex>  
0.000 Range= 10.230 keV 10.110  
Integral 0 = 7440

85-118



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85-120







1-Dec-2003 10:30:24

91251, 296, A, #12, RS                   Preset=       100 secs  
Vert=     500 counts   Disp= 1           Elapsed=       14 secs  
Energy   Counts    X-Ray Lines

0.53	1163.	O K , O K , V L , Cr L , V L , Cr L , V L , V L , Cr L.L , Cr L
1.27	179.	Mg K , Mg K , Mg K
1.76	1408.	Si K , Si K
6.40	1027.	Fe K , Fe K
7.07	125.	Fe K , Fe K
7.49	44.	Ni K , Ni K

Quantex>  
0.000   Range=   10.230 keV                   10.110  
Integral 0 =                   12324

85-123





85-120

1 Dec-2003 10:37:44

91251, 296, B, #04, SA

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 30 secs

Energy Counts X-Ray Lines

1.26 164. Mg K , Mg K , Mg K

1.75 1622. Si K , Si K

6.42 1199. Fe K , Fe K

7.09 180. Fe K , Fe K

Quantex>

0.000 Range= 10.230 keV

Integral 0 = 10.110  
10545

85-127

1-Dec-2003 10:38:57

91251, 296, B, #05, SA	Preset=	100 secs
Vert= 500 counts Disp= 1	Elapsed=	37 secs
Energy Counts X-Ray Lines		
1.25 208. Mg K , Mg K , Mg K		
1.75 2464. Si K , Si K		
6.42 1855. Fe K , Fe K		
7.09 264. Fe K , Fe K		

Quantex>  
0.000 Range= 10.230 keV Integral 0 = 10.110  
16325

1-Dec-2003 10:49:23

91251, 296, B, #00, SA	Preset=	100 secs
Vert= 500 counts Disp= 1	Elapsed=	19 secs
Energy Counts X-Ray Lines		
1.26 85. Mg K , Mg K , Mg K		
1.75 458. Si K , Si K		
6.41 352. Fe K , Fe K		
7.06 66. Fe K , Fe K		

Quantex>  
0.000 Range= 10.230 keV Integral 0 = 10.110  
4659

85-128.



1-Dec-2003 11:03:10

91251, 296, R, #19, SA

Preset= 100 secs

Verb= 500 counts Disp= 1

Elapsed= 1.6 secs

Energy Counts X-Ray Lines

1.26 45. Mg K , Mg K , Mg K

1.74 379. Si K , Si K

6.41 262. Fe K , Fe K

7.06 66. Fe K , Fe K

Quantex>

0.000 Range= 10.230 keV

Integral 0 = 10.110  
261.4

85-129

DATE: December 4, 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-C30452  
B 295 Boiler Room  
DATE COLLECTED: 12/2/03 by James Spencer  
REPORT NO: 91312  
DATE RECEIVED: 12/3/03 at 1000  
DATE ANALYZED: 12/3/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP 11012181  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX030297

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.

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.

85-130

SUBMITTAL FORM/Laboratory Services

91312

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

RELINQUISHED BY Zadmal TIME / DATE 12/2/03

CLIENT VA-GLAS (130b) DATE OF SHIPMENT 12/2 CARRIER \_\_\_\_\_

ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO. \_\_\_\_\_

LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S) B295 Boiler Room

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 12/2/03

SAMPLE PRESERVATIVES No HOLDING TIMES None

NO. OF SAMPLES SENT 1 SAMPLER'S NAME James Spener

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
91312-97	SX030297	Clearance	TEM 1330
Results needed by 11AM on 12/3/03			

(SF 5/00)

Laboratory No. 91312 Received By [Signature] Time 10:00

Date of Package Delivery 12-3-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt u Condition of Custody Seal u

(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 \_\_\_\_\_

Date of Acceptance into Sample Bank 12-3-03 Misc. Info. 913-131

Disposition of Samples EMS LAB

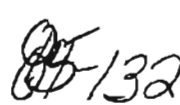
# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 91312 Date Received 12/3/03 Verbal Results  
 Client V.A.G.L.A.R.S. Date Analyzed 12/3/03 Fax Results  
 Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>		ASPECT RATIO		STRUCTURE SIZE	
INDIRECT PREP <input type="checkbox"/>		3:1 <input type="checkbox"/>	4:1 <input checked="" type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/>	0.5 $\mu$ m Length <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	LEVEL II <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	6:1 <input type="checkbox"/>	0.5 $\mu$ m Length <input checked="" type="checkbox"/>	PCM Range* <input type="checkbox"/>
				1 $\mu$ m Length <input type="checkbox"/>	1 - 25 $\mu$ m Width <input type="checkbox"/>
				2 $\mu$ m Length <input type="checkbox"/>	25.0 $\mu$ m Length <input type="checkbox"/>

Sample Identification	Volume (L)	Mass (g)	Stages (mm)	Structure	95% CONFIDENCE LEVELS	
					Lower Limit	Upper Limit

SX 030297      1330      -      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: 91312  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1330 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030297  
 RECEIVED: 12/3/03 ANALYZED: 12/3/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0576  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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.

85-133





**Department of Veterans Affairs** **AIR SAMPLING DATA**

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

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

**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: December 09, 2003  
 Project: Removal of 12"x12" VAT & Mastic.  
 Wet Method Removal under HEPA Vacuum & exhaust, and Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 500 Room: Pod - D Floor: 3W

<b>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
---	--	---

5. SAMPLING INFORMATION						
(Fill in Sample #)	SAMPLE 01	SAMPLE 02	SAMPLE 03 12/10/03	SAMPLE 04	SAMPLE 05	SAMPLE 06
<b>a. SAMPLE TYPE/MEDIA</b>	UG/PCM	Area/PCM	CL/TEM			
<b>b. SAMPLE SUBMISSION NO.</b>	SX030303	SX030304	SX030305			
<b>c. TIME ON</b>	9:50	12:00	15:50			
<b>d. TIME OFF</b>	11:15	13:30	17:10			
<b>e. NET TIME (In minutes)</b>	85	90	80			
<b>f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m<sup>3</sup>/min</b>	15	15	15			
<b>g. VOLUME (in liters)</b>	1275	1350	1200			

6. RESULTS (For Laboratory Use)										
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average							a. PERCENTAGE			
							b. Date: 10-31-03			
SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0027	F/CC	0.0024	S/mm <sup>2</sup>	ND				

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

<b>8. IH COMMENTS TO LABORATORY</b> PCM & TEM	
<b>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</b>

<b>10. EQUIPMENT IDENTIFICATION (Manufacture &amp; Serial No.)</b>			
<b>10a. (PRE) CALI-BRATION DATE</b> 12/09/03	<b>10b. FLOW RATE CALCULATIONS</b> 15 l/min	<b>10c. (POST) CALI-BRATION DATE</b> 12/09/03	<b>10d. FLOW RATE CALCULATIONS</b> 15 l/min

<b>11. NAME &amp; JOB TITLE (Person Performing Sampling)</b> James Spencer	<b>DATE</b> 12/09/03	<b>USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..</b>
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85-130





85-138

3. Perimeter: \_\_\_\_\_
4. Inside Work Area: SX030304 on 12/09/03
5. Clearance: SX030305 on 12/10/03
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 \_\_\_ 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 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. 500 Floor \_\_\_ Rooms 3W Pod -D 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 12/10/03 are as follows:
 

Bldg. <u>500</u>	Floor: <u>3W</u>	Room: <u>Pod -D</u>	<u>ND</u>	Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		Structures/mm <sup>2</sup>
	Floor: _____	Room: _____		fibers/cc
	Floor: _____	Room: _____		fibers/cc

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

Industrial Hygienist: James Spencer

85-139

# NIOSH FIBER COUNT (METHOD 00, 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:** 91462      **Date Received:** 12-11-03      **Filter Type:** MCE      **Filter Area:** 365  
**Client:** VAGLAHS      **Date Analyzed:** 12-12-03      **Magnification:** 400x      **Field Area:** 0.08785NM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 12-9-03      **Project #:** B 500 RM P01D 3W      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 91462VAGLAHS-AIK

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Filter/Filter	Volume (Lit)	Fibers/CC	LOQ	ANL SENT
SX030303	100	7	9	3433	1275.0	0.0027	0.0242	0.0004
SX030304	100	6.5	8	3188	1350.0	0.0024	0.0228	0.0004

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.mm)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/Sq.mm)

AIHA Registered Asbestos Analyst  
**I.D. 7795**      **CARL BERGMAN**  
**I.D. 2033**      **JEFF WAN**  
**I.D. 3276**      **SAHMAD**

*Carl Bergman*

B.M. Kolk, Laboratory Director

Interlaboratory Sr is taken at 0.45 Inhalatory Sr is 0.3  
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 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

EMS LABORATORIES 17 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

85-140

SUBMITTAL FORM / Laboratory Services

91462.1

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR  24 HR  REQUISITIONED BY Labmt

CLIENT VA-GLAHS (130b) DATE OF SHIPMENT 12/9/03 CARRIER Labmt  
ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO.   
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S) B-200 Room Pod D 3W

TELEPHONE BEN SPIVEY PACKAGE SHIPPED FROM   
CONTACT

RESULTS REQUESTED VIA  VERBAL  FAX  CLIENT FAX NO.

DATE/TIME OF SAMPLE COLLECTION 12/9/03  
SAMPLE PRESERVATIVES No HOLDING TIMES None  
NO. OF SAMPLES SENT 3 SAMPLER'S NAME James Spence  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)	CLIENT SAMPLE NO	DESCRIPTION / LOCATION	ANALYSIS	TIME
91462-3	SX030303	Background	PCM	1275
4	SX030304	Area / Decon	PCM	1350
91462-5	SX030305	Clearance Inside	TEM	1200
				12

FOR ONLY (SF 5100)

Laboratory No. 91462.1 Received By [Signature] Time 10:00

Date of Package Del. 12-11-03 Shipping Box Required YES  NONE

Condition of Package on Receipt Good Condition of Custody Seal Good

No. of Samples 2 of 1 Chain of Custody Signature [Signature]

Date of Acceptance into Sample Bank 12-11-03 Misc. Info EMR 1049

DATE: December 12, 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-C30452  
B 500 Room Pod D 3W  
DATE COLLECTED: 12/9/03 by James Spencer  
REPORT NO: 91462.1  
DATE RECEIVED: 12/11/03 at 1000  
DATE ANALYZED: 12/11/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY


The sample was identified as: SX030305

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.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

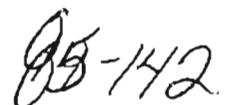
NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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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.





85-144



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 91462.1  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 12/11/03  
 ▶ Date Analyzed 12/11/03  
 ▶ 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"/> 5 µm Length <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	0.5 µm Length <input checked="" type="checkbox"/> PCM Range <input type="checkbox"/>
LEVEL II <input type="checkbox"/>		1 µm Length <input type="checkbox"/> 25 µm Width <input type="checkbox"/>
		5.0 µm Length <input type="checkbox"/>

Sample Identification	Volume (L)	Mass (mg)	95% CONFIDENCE LEVELS
	Structures num	Structure cc	Analytical Sensitivity
			Lower Limit
			Upper Limit

SX 030305      1200      -      N.D.      N.D.      0.005      0      0.02

86-145  
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:

EMS LABORATORIES

117 West Bellevue Drive / Pasadena, CA 91105-2503 / 626-568-4065 / Fax: 626-796-5282

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 91462.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030305  
 RECEIVED: 12/11/03 ANALYZED: 12/11/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0672  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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.

85-146

# TEM ANALYSIS

EMS Lab No. 914621  
 Client VA 61AHS  
 Sample No. SX030305

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

**LENGTHS**  
 AU 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/Microvac

**SAED Observation**  
 Chrysotile   
 Amphibole   
 Amphiboles   
 Non Asbestos   
 No Pattern

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 µm  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

**ANALYSIS**  
 Date 12-11-05  
 Prepared By RS

Grid Address A  
 Screen Magnification 1000x  
 Camera Constant \_\_\_\_\_ µm  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

Page 1 of \_\_\_\_\_  
 MICROSCOPE  
 H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-06   
 H600C - Serial No. 542-24-03

Analyst Ladk Date 12-11-05

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation	EDS Analysis							Comments			
			Width	Length	Thickness		Na	Mg	Si	Ca	Fe	Id					
<u>8351</u>	<u>13-0</u>	<u>14-1</u>															

**16 Lines**

OBSERVATIONS: Clean   
 Debris   
 Gypsum   
 Condition of the Grid: Good

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Undissolved Filter

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

85-147

**TEM ASBESTOS ANALYSIS**

EMS Lab No. 91462.1  
 Client VH6LAIN  
 Sample No. SX030305

**RECEIVING**

**ANALYSIS**

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification 500X H600B - Serial No. 542-05-06   
 Camera Constant 2884 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 70  $\mu A$

Analyst SA Date 12/11/15

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>04-1 NSD</u>																	
<u>02-3 NSD</u>																	
<u>02-2 NSD</u>																	

16 Lines

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

Very Light  Very Light  Good

Light  Light  Scrapy  Undissolved Filter

Moderate  Moderate  Moderate  Heavy  Heavy  Very Heavy  Very Heavy

04-1 NSD

# AIR SAMPLING DATA

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

### 4. EMPLOYEE INFORMATION

a. NAME OF EMPLOYEE [Redacted]	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: December 10, 2003  
 Project: Removal of ACM Pipe Insulation (TSI) & Fittings.  
Wet Method Removal under HEPA Vacuum & exhaust, and Mini Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 256 Room: 16 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 #)	SAMPLE 01	SAMPLE 02	SAMPLE 03 10/31/03	SAMPLE 04	SAMPLE 05	SAMPLE 6
a. SAMPLE TYPE/MEDIA	BG/PCM	Area/PCM	CL/TEM			
b. SAMPLE SUBMISSION NO.	SX030306	SX030307	SX030308			
c. TIME ON	8:35	11:50	14:05			
d. TIME OFF	10:00	13:20	15:25			
e. TIME (In minutes)	85	90	80			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	15	15	15			
g. VOLUME (In liters)	1275	1350	1200			

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average							a. PERCENTAGE			
							b. Date: 10-31-03			
SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0171	F/CC	0.0035	S/mm <sup>2</sup>	ND				

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy (PCM)  
 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) CALIBRATION DATE 12/10/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALIBRATION DATE 12/10/03	10d. FLOW RATE CALCULATIONS 15 l/min
---	---	--	---

1. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 12/10/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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85-149

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AK

Date: December 10, 2003

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 12/10/03

Location: VA Hospital Bldg. 256, Room 16

Abatement Company: Unlimited Environment Phone Number: [Redacted]

Abatement Supervisor: Rojelio Romano

Type of ACM: ACM Pipe Insulation (TSI) & Fittings

Quantity of ACM: 10 Nos

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

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: SX030306 on 12/10/03

85-151

3. Perimeter: \_\_\_\_\_
4. Inside Work Area: SX030307 on 12/10/03
5. Clearance: SX030308 on 12/11/03
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 \_\_\_\_\_ 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: 1 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. 256 Floor 1st, 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 12/10/03 are as follows:
- |                  |                              |                 |                                      |
|------------------|------------------------------|-----------------|--------------------------------------|
| Bldg. <u>256</u> | Floor: <u>1<sup>st</sup></u> | Room: <u>16</u> | <u>ND</u> Structures/mm <sup>2</sup> |
|                  | Floor: _____                 | Room: _____     | _____ Structures/mm <sup>2</sup>     |
|                  | Floor: _____                 | Room: _____     | _____ fibers/cc                      |
|                  | Floor: _____                 | Room: _____     | _____ fibers/cc                      |

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

Industrial Hygienist: James Spencer

05-152



DATE: December 12, 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-C30452  
B 256 Room 16 SW

DATE COLLECTED: 12/10/03 by James Spencer

REPORT NO: 91461.1

DATE RECEIVED: 12/11/03 at 1000

DATE ANALYZED: 12/11/03

ACCREDITED: National Institute of Standards and Technology through NVLAP (10) 218

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

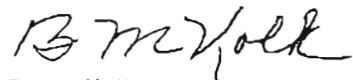
The sample was identified as: SX030308

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.

The test reports are enclosed.

Respectfully submitted

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ab

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.

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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 for Asbestos Structures

▶ EMS Laboratory No. 91461.1      ▶ Date Received 12/11/03      ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S.      ▶ Date Analyzed 12/11/03      ▶ 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"/> 25 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 µm Length <input type="checkbox"/> 0 µm Length

Sample Identification: SX 030308      Mass in (mg): 1200      Structures per Structure cc: N.D.      Analyzed Separately: 0      95% CONFIDENCE LEVELS: Lower Limit 0      Upper Limit 0.02

*86-154*

- "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: \_\_\_\_\_

SUBMITTAL FORM/Laboratory Services

91461.1

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

CLIENT VA GLASS (1306) DATE OF SHIPMENT 12/10 CARRIER \_\_\_\_\_  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 210 CLIENT P.O. NO. \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S) B 256 Room 16 SW  
 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 12/10/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME James Spencer  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
91461-6	SX030306	Background	PCM 1275
7	SX030307	Decon Area	PCM 1350
461-8	SX030308	Clearance Inside	TEM 1200
Note: TEM Results needed by 12 Noon on 12/11/03			

FOR EMS (SF 5/00)

Laboratory No. 91461.1 Received By [Signature] Time 10:00  
 Date of Package Delivery 12-11-03 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 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 12-11-03 Misc. Info. 85-155  
 Disposition of Samples [Signature]

**NIOSH FIBER COUNT (METHOD 400, issue 2, A RULES)**  
**Phase Contrast Microscopy of Air Samples**

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

Report No: **91461** Date Received: **12-11-03** Filter Type: **MCE** Filter Area: **395**  
 Client: **VAGLAHS** Date Analyzed: **12-11-03** Mag: **400x** Field Area: **0.00785904**  
 Address: **11301 WILSHIRE BLYD** Date Sampled: **12-10-03** Project #: **B 256 RM 16 SW** Filter Size: **25MM**  
**LOS ANGELES, CA 90073** Attention: **B SPIVEY** File Name: **91461VAGLAHS-AJR**

Sample I.D.	Fiber Counted	Fibers Coated	F/Sq. mm	Fiber/Filter Volume (µL)	Fibers/CC	LOD	ANL-SENT.
SX030306	100	44.5	57	1275.0	0.0171	0.0021	0.0004
SX030307	100	9.5	12	1350.0	0.0035	0.0020	0.0004

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

ADHA 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**

Interlaboratory Si is taken as 0.45 Intra-laboratory Si is 0.3  
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 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**

89-156

**SUBMITTAL FORM/Laboratory Services**

**91461**

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.  OTHER \_\_\_\_\_  
 RECEIVED BY Zahrul  
 TIME / DATE 12/10/03

CLIENT: VA GLASS (1300) DATE OF SHIPMENT 12/10 CARRIER \_\_\_\_\_  
 ADDRESS: 11301 WILSHIRE BLVD, BLDG 210 CLIENT P.O. NO. \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S) \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ B 256 Room 16 SW  
 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 12/10/03  
 SAMPLE PRESERVATIVES NO HOLDING TIMES None  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME James Spencer  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_ PRINTED: \_\_\_\_\_

(FOR EMS ONLY)  
 EMS Sample No.

CLIENT SAMPLE NO. DESCRIPTION LOCATION ANALYSIS

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS
91461-6	SX030306	Background		PCM 1275
7	SX030307	Decon Area		PCM 1350
91461-8	SX030308	Clearance Inside		TEM 1200

*[Handwritten Signature]*  
 Note: TEM Results needed by 12 Noon  
 on 12/11/03

FOR EML (SF 5/00)

**91461**

Laboratory No. \_\_\_\_\_ Received By [Signature] Time 10:00  
 Date of Package Delivery 12-11-03 Shipping Bill Received: YES  NONE   
 Condition of Package on Receipt an 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 Chain of Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 12-11-03 Misc. Info. \_\_\_\_\_  
 Disposition of Sample EMS VAN

DATE: December 1, 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-C30452, Bldg 295 Boiler Room

DATE COLLECTED: 11/26/03 by James Spencer

REPORT NO: 91251

DATE RECEIVED: 11/28/03 at 0930

DATE ANALYZED: 12/1/03

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

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX030296

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.

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.

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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.

85-158

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 91251  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 11/28/03  
 ▶ Date Analyzed 12/4/03  
 ▶ 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"/> 2.5 µm Length <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	0.5 µm Length <input checked="" type="checkbox"/> PCM Range* <input type="checkbox"/>
LEVEL II <input type="checkbox"/>		1 µm Length <input type="checkbox"/> 1.25 µm Width <input type="checkbox"/>
		5.0 µm Length <input type="checkbox"/>

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

SX 030296	1200	-	540	0.2	0.005	0.1	0.2
-----------	------	---	-----	-----	-------	-----	-----

85-159  
 TEM - 3A (12-03)

- "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

PAGE 1 OF 1

**91251**

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

RELINQUISHED BY Zadml TIME / DATE 11/26/03

CLIENT VA GLAHS (130b) DATE OF SHIPMENT 11/26 CARRIER \_\_\_\_\_

ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO. \_\_\_\_\_

LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). B 295 Boiler Room

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 11/26/03

SAMPLE PRESERVATIVES No HOLDING TIMES None

NO. OF SAMPLES SENT 1 SAMPLER'S NAME James Spender

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

EM Sample No.	CLIENT SAMPLE NO.	DESCRIPTION-LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
91251-96	5X030296	Area/ Clearance	TEM	1200

(SF 5/00)

FOR EM ILY

Laboratory No. **91251** Received By [Signature] Time 930

Date of Package Delivery 11-28-03 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt ce 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 11-28-03 Misc. Info. 05-160

Disposition of Samples ALL USE



TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 91251  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030296  
 RECEIVED: 11/28/03 ANALYZED: 12/1/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0672  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM		CALCULATED VALUE	
Total Number of Fibers				
Total Chrysotile Fibers .....	11		0.05 /cc	
Fiber Length: Range(um) .....	0.8 -	5.7	MEAN	2.8 um
Fiber Diameter: Range(um) .....	0.05 -	0.4	MEAN	0.09 um
Aspect Ratio: Range .....	10 -	90	MEAN	44
Fibers <5um/ Fibers >=5um .....	10 /	1	0.05 / 0.005	/cc
Total Amphibole Fibers .....	7		0.03 /cc	
Fiber Length: Range(um) .....	1 -	16	MEAN	6.3 um
Fiber Diameter: Range(um) .....	0.05 -	0.8	MEAN	0.3 um
Aspect Ratio: Range .....	7.7 -	130	MEAN	39
Fibers <5um/ Fibers >=5um .....	2 /	5	0.01 / 0.02	/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 .....	15		0.07 /cc	
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>36</b>		<b>0.2 /cc</b>	
Chrysotile .....	25		0.1 /cc	
Amphibole .....	11		0.05 /cc	
Crocidolite .....	N.D.		N.D. /cc	
Tremolite .....	N.D.		N.D. /cc	
Amosite .....	11		0.05 /cc	
Anthophyllite .....	N.D.		N.D. /cc	
Actinolite .....	N.D.		N.D. /cc	
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	<b>21</b>		<b>0.1 /cc</b>	
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>36</b>		<b>0.2 /cc</b>	
Sensitivity Level(Structures/cc) .....			0.005	
Lower 95% Confidence Limit(Structures/cc) .....			0.1	
Upper 95% Confidence Limit(Structures/cc) .....			0.2	
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....	<b>1</b>		<b>0.005 /cc</b>	
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	<b>540</b>			

REMARKS: HEAVY DEBRIS

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

95-161

# TEM ANALYSIS

EMS Lab No. 9247  
 Client VALA  
 Sample No. SX040179

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

1-10-25 µm with 25.0 µm length

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

G.O. Area (mm<sup>2</sup>) 0.004  
 No. of G.O. to Analyze 7

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

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

**LENTHS**  
 All Sizes (EPA)   
 (µm) : > 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*   
 1-10-25 µm with 25.0 µm length

**PREP ANALYSIS**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 1.20 liters  
 Working Volume 28.5 ml  
 Weight 28.5 grams  
 Ashed Area 10 %  
 Date 2/13/02  
 Prepared By LR

**GRID ADDRESS**  
 Screen Magnification 1000X  
 Camera Constant 28.5  
 Accelerating Voltage 100KV  
 Beam Current 10 µA

**A**  
 Date 7-12-04  
 Analyst U. U. U.

Grid Opening	Structure Number	Structure	Dimension (mm)		Thickness	SAED Observation				EDS Analysis				Comments			
			Width	Length		Chrysotile	Amphibole	Ambiguous	Non Asbestos	Na	Mg	Si	Ca		Fe	Id	

**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

95-162

**SEM ANALYSIS**

EMS Lab No. 9747  
 Client VALLETTI  
 Sample No. 179

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification 1000 H600B - Serial No. 542-05-06   
 Camera Constant 25 H600C - Serial No. 542-24-03   
 Accelerating Voltage 10 KV  
 Beam Current 10  $\mu$ A

Analyst Loche Date 2/18/6

**ANALYSIS**

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>230</u>	<u>1</u>	<u>NA</u>														
<u>250</u>	<u>2</u>	<u>NA</u>														
<u>250</u>	<u>3</u>	<u>NA</u>														
<u>250</u>	<u>4</u>	<u>NA</u>														
<u>250</u>	<u>5</u>	<u>NA</u>														
<u>250</u>	<u>6</u>	<u>NA</u>														
<u>250</u>	<u>7</u>	<u>NA</u>														
<u>250</u>	<u>8</u>	<u>NA</u>														
<u>250</u>	<u>9</u>	<u>NA</u>														
<u>250</u>	<u>10</u>	<u>NA</u>														

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

Very Light  Very Light  Good   
 Light  Light  Scrapy   
 Moderate  Moderate  Undissolved Filled   
 Heavy  Heavy  Folded   
 Very Heavy  Very Heavy

16 Lines

85-103

**RECEIVING**

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 92417  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040181  
 RECEIVED: 2/12/04 ANALYZED: 2/12/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0865  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.	

RESULTS: MODERATE DEBRIS

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

95-164

# SUBMITTAL FORM *Laboratory Services*

92477

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

RELINQUISHED BY Kelly  
 TIME / DATE 02.17.04

CLIENT ~~VA CLAHS (130b)~~  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 02.17 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S). B258 R220J  
 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. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 02.17.04  
 SAMPLE PRESERVATIVES N/A  
 NO. OF SAMPLES SENT 1 SAMPLER'S NAME \_\_\_\_\_  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

HOLDING TIMES \_\_\_\_\_  
 SIGNATURE [Signature] PRINTED KELLY

(FOR EMS ONLY)

VOLUME  
TIME WEIGHT  
APPLICABLE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT APPLICABLE
92477-90	SX040190	CONFIRMATION ANALYSIS		TEM	1200 L
<u>Need results ASAP by 1:00 PM 2/18/04</u>					

FOR EMLY (SF 5/00)

Laboratory No. 92477  
 Date of Package Delivery 2-18-04  
 Condition of Package on Receipt all  
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  
 Date of Acceptance into Sample Bank 2-18-04  
 Disposition of Samples ALL WAS

Received By [Signature] Time 9:30  
 Shipping Bill Retained YES  NONE   
 Condition of Custody Seal [Signature]  
 Chain-of-Custody Signature [Signature]  
 Misc. Info. 95-163

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 92477  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040190  
 RECEIVED: 2/18/04 ANALYZED: 2/18/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.	

COMMENTS: MODERATE DEBRIS

*Handwritten signature/initials*

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

# TEM ANALYSIS

EMS Lab No. 92477  
 Client VA 6LA-II  
 Sample No. SX040190

## RECEIVING

METHOD OF ANALYSIS  
 EPA Yarnate Level I   
 Level II   
 Level III   
 AHERA  31  32

## TYPE OF SAMPLE

Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

## FILTER TYPE/AREA (mm<sup>2</sup>)

MCE/085   
 MCE/314   
 MCE/1017   
 Other

## LENGTHS

All Sizes (EPA)  
 (µm) : > 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*  
 (40.25 µm width, >50 µm length)

G.O. Area (mm<sup>2</sup>) 0.0295  
 No. of G.O. to Analyze 7

## PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 litres  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

Date 2/18/04  
 Prepared By LR

## ANALYSIS

Grid Address A  
 Screen Magnification 194x  
 Camera Constant 25.7  
 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 2/18/04  
 Analyst Radke

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
H4-3																	
H4-4																	
H4-5																	
H4-6																	
H4-7																	
H4-8																	
H4-9																	
H4-10																	
H4-11																	
H4-12																	
H4-13																	
H4-14																	
H4-15																	
H4-16																	
H4-17																	
H4-18																	
H4-19																	
H4-20																	

15 Lines  
 OBSERVATIONS: Clean   
 Debris   
 Gypsum   
 Condition of the Grid: Good

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

291-167

# TEM ASPHALT ANALYSIS

EMS Lab No. 92477  
 Client VAGLAH  
 Sample No. SX04090

Page 1 of 1

MICROSCOPE

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 9200 H600B - Serial No. 542-05-06   
 Camera Constant 18.0 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

Analyst SA Date 2/18/06

## ANALYSIS

## RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Iron Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>E36</u>	<u>N50</u>																
<u>E13</u>	<u>N50</u>																
<u>E17</u>	<u>N50</u>																

16 Lines

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

85-168



# AIR SAMPLING DATA

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

4. EMPLOYEE INFORMATION		
a. 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:** 01/28/04  
**Project:** Floor Tile & Mastic, TSI on Pipe insulation & Elbow, Duct insulation.  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 337 Floor: 3rd, West Wing

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 __		
a. SAMPLE TYPE/MEDIA	Exhaust ext. East (Decon Area)	Exhaust ext. East (Decon Area)			
b. SAMPLE SUBMISSION NO.	SX040130	SX040131			
c. TIME ON	9:15	12:20			
d. TIME OFF	11:15	14:20			
e. TOTAL TIME (In minutes)	120	120			
FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10			
VOLUME (In liters)	1200	1200			

6. RESULTS (For Laboratory Use)					
P = PPM M = mg/m3 F = Fibers C = Cell/mg T = Time Weighted Average				a. PERCENTAGE	
				b. TYPE	
Unit	F/CC	F/CC			
Asbestos ( PCM )	0.0004	0.0010			

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

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  01/28/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 01/28/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 01/28/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

95-189



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

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face, North
- B. Coveralls: Yes, Tyvec 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: 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     No X Licensed: Yes     No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes     No
- G. Amended Water Used: Yes X No     How Applied: Hudson Sprayer
- 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 6-32
- 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. 337 Floor 3rd West Wing 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 01/28/04 are as follows:

Bldg. <u>337</u>	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u> Structures/mm <sup>2</sup>
	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u> Structures/mm <sup>2</sup>
	Floor: <u>3rd</u>	Room: <u>West Wing</u>	<u>0.0004</u> fibers/cc
	Floor: <u>3rd</u>	Room: <u>West Wing</u>	<u>0.0010</u> fibers/cc

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

Industrial Hygienist: Kevin Kelly, SST 97-2293

95-171

# 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:** 92187      **Date Received:** 1-30-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VACLAHS      **Date Analyzed:** 2-4-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 1-28-04      **Project #:** B 337 WEST WJNG      **Filter Size:** 75MM  
 LOS ANGELES, CA 90073      **Attention:** B SPTVEY      **File Name:** 92187VACLAHS.AIR

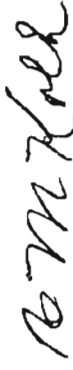
Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lil.)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040130	100	1	1	490	1200.0	0.0004	0.0022	0.0257	0.0004
SX040131	100	2.5	3	1226	1200.0	0.0010	0.0022	0.0257	0.0004

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  
 I.D. 7795      **CARL BERGMAN**  
 I.D. 2033      **JEFF WAN**  
 I.D. 3276      **S.AHMAD**

Laboratory 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.

B.M. Kolk, Laboratory Director  


85-172

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

**SUBMITTAL FORM** / Laboratory Services

92187

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

RELINQUISHED BY Zadorn

TIME / DATE 1/29/04

CLIENT VA GLAHS (130b)

DATE OF SHIPMENT 1/28 CARRIER

ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

CLIENT P.O. NO.

TELEPHONE [REDACTED]

CLIENT JOB/PROJECT ID NO(S) B 337 West Wing

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 1/28/2004

SAMPLE PRESERVATIVES NONE

HOLDING TIMES NONE

NO. OF SAMPLES SENT 2 SAMPLER'S NAME Kevin Kelly

SIGNATURE [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
92187-30	SX040130	Decon Area Air Extr		PCM	1200
N-31	SX04131	Decon Area Air Extr		PCM	1200
[Large Handwritten Signature]					

15 lines

Laboratory No. 92187 Received By [Signature] Time 9:30

Date of Package Delivery 1-30-04 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt u 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 1-30-04 Misc. Info 92-173

Disposition of Samples EMS UAH

(SF 5/00)

FOR EMLY

Department of Veterans Affairs **AIR SAMPLING DATA**

1 FACILITY IDENTIFICATION  
VA-GLAHS

2 STATION NO. 619

3 REGION NO. VISN #22

4. EMPLOYEE INFORMATION

a. 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: 03-30-04  
 Project: Vinyl Asbestos Tile & Mastic  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 206 Room: HALL Floor: BSMT

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	Entryway/PCM	Eastside/PCM	Westside/PCM	Clearance/TEM	
b. SAMPLE SUBMISSION NO.	SX040244	SX040245	SX040246	SX040247	
c. TIME ON	08:00	09:40	11:45	11:00	
d. TIME OFF	10:00	11:40	13:45	13:00	
e. TOTAL TIME (In minutes)	120	120	120	120	
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)	1200	1200	1200	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		b. TYPE	
						RESULT	UNIT	RESULT	UNIT
Asbestos	F/cc	N.A.	F/cc	0.0059	F/cc	0.0061	S/m <sup>2</sup>	15	
									DATE 03/31/0

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy(PCM) / 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 Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 03/30/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 03/30/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling)  
 Kevin J. Kelly, SST 97-2293

DATE 03/30/04

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

25-174



- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040247
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: 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      No
- F. Adeq. Neg. Pressure Diff. in Containment Yes      No
- G. Amended Water Used: Yes X No      How Applied: Hudson Sprayer
- 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-P
- 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. 206, Floor BSMT, Rooms 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 03/30/04 are as follows:
 

Bldg. <u>206</u>	Floor: <u>BSMT</u>	Room: <u>HALL</u>	<u>15</u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> Structures/mm <sup>2</sup>
	Floor: <u>BSMT</u>	Room: <u>HALL</u>	<u>0.005</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 : Kevin J. Kelly, SST 97-2293

*JB-176*



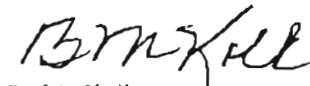
DATE: April 8, 2004  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C47259  
B 206 STEAM LINE  
REPORT NO: 93170  
DATE RECEIVED: 3/31/04 at 1000  
DATE ANALYZED: 3/31/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX040247

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.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

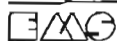
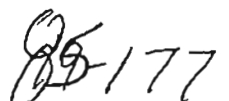
NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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.



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 03-170  
 ▶ Client V.A.G.L.A.H.S  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 3/31/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 3/31/04 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>	STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ 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>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Lower Limit Upper Limit

SX 040247	1200	-	15	0.005	0.005	0.0005	0.03
-----------	------	---	----	-------	-------	--------	------

03-170

□ "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., 1984)  
 □ PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.  
 Comments \_\_\_\_\_

# 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: 93170.1 Date Received: 3-31-04 Filter Type: 25 MM MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 4-7-04 Mag: 400X Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: N.A. Project #: B206 STEAM LINE Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: BEN SPIVEY File Name: 93107.1VA-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040244	OVERLOADED				1200.0	N.A.	0.0022	0.0257	0.0004
SX040245	100	14.5	18	7111	1200.0	0.0059	0.0022	0.0257	0.0004
SX040246	100	15	19	7357	1200.0	0.0061	0.0022	0.0257	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

ALHA Registered Asbestos Analyst  
 I.D. 2033  
 JEFF WAN

B.M. Kolk, Laboratory Director

85-179

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: 626-796-5282

**SUBMITTAL FORM** / Laboratory Services

**93170.**

PAGE 1 OF 1

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

RELINQUISHED BY [Signature]  
TIME / DATE 03.30.04

CLIENT VA GLASS (+130b)  
ADDRESS 11301 WILSHIRE BLVD. BLDG 218  
LOS ANGELES, CA 90025 RM 308  
TELEPHONE [Redacted]  
CONTACT BEK SPIVEY

DATE OF SHIPMENT 03.30 CARRIER [Redacted]  
CLIENT P.O. NO. [Redacted]  
CLIENT JOB/PROJECT ID NO(S) B206 SEPHLINE  
PACKAGE SHIPPED FROM [Redacted]

RESULTS REQUESTED VIA  VERBAL  FAX  CLIENT FAX NO. [Redacted]  
(NOTE: Complete written reports will follow all analyses, in addition to any price transmitted verbally or faxed.)

DATE/TIME OF SAMPLE COLLECTION [Redacted]  
SAMPLE PRESERVATIVES [Redacted] HOLDING TIMES [Redacted]  
NO. OF SAMPLES SENT 1+3 SAMPLER'S NAME [Redacted]  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER [Redacted]

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TWEIGHT (IF APPLICABLE)
93170-44	5X040244	WORK AREA ENTRY / AIR		PCM	1200L
↓ 45	5X040245	Handing / Personal		PCM	1200L
↓ 46	5X040246	Handing / Personal		PCM	1200L
93170-47	5X040247	CLEARANCE (MATERIAL)		TEM	1200L

*Please RESUBMIT TEST SAMPLES only  
by 1 PM WED 3/31  
ALL OTHER SAMPLES USE STANDARD TA*

(SF-5/00)

EMS ONLY

Laboratory No. 93170. Received By [Signature] Time 10:00  
Date of Package Delivery 3-31-04 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 1+3 Chain-of-Custody Signature [Signature]  
Date of Acceptance into Sample Bank 3-31-04 Misc. Info. [Signature]  
Disposition of Samples EMS LABS

85-180

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.

EMS NO: 93170

FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385

VOLUME OF AIR: 1200 L

METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040247

RECEIVED: 3/31/04 ANALYZED: 3/31/04

AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665

GRID OPENING AREA (mm<sup>2</sup>): 0.0095

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	1	0.005 /cc
Fiber Length: Range(um)	11 - 11	MEAN 11 um
Fiber Diameter: Range(um)	0.05 - 0.05	MEAN 0.05 um
Aspect Ratio: Range	210 - 210	MEAN 210
Fibers <5um/ Fibers >=5um	N.D. / 1	N.D. / 0.005 /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>	<b>1</b>	<b>0.005 /cc</b>
Chrysotile	N.D.	N.D. /cc
Amphibole	1	0.005 /cc
Crocidolite	N.D.	N.D. /cc
Tremolite	N.D.	N.D. /cc
Amosite	1	0.005 /cc
Anthophyllite	N.D.	N.D. /cc
Actinolite	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b>	<b>1</b>	<b>0.005 /cc</b>
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b>	<b>1</b>	<b>0.005 /cc</b>
Sensitivity Level(Structures/cc)		0.005
Lower 95% Confidence Limit(Structures/cc)		0.0005
Upper 95% Confidence Limit(Structures/cc)		0.03
<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>15</b>	

COMMENTS: MODERATE DEBRIS

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

85-181

# TEM PESTOS ANALYSIS

EMS Lab No. 93170  
 Client VA GLAHS  
 Sample No. 5X0410247

**METHOD OF ANALYSIS**  
 EPA Yamato Level I   
 Level II   
 Level III   
 AMERA   
 ASPECT RATIO  $\lambda$    $\lambda$   5:1

**LENGTHS**  
 All Sizes (EPA)   
 ( $\mu\text{m}$ ) :  $\geq 0.5$    
 ( $\mu\text{m}$ ) :  $> 5.0$    
 ( $\mu\text{m}$ ) :  $> 10.0$    
 PCM Range\*   
 \* $(0.25\text{ }\mu\text{m width, } 10\text{ }\mu\text{m length})$

## RECEIVING

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

**FILTER TYPE/AREA (cm<sup>2</sup>)**  
 MCE/895   
 MCE/814   
 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

**G.O. Area (mm<sup>2</sup>)** 0.95 D.O. \_\_\_\_\_  
 No. of G.O. to Analyze 7

## PREP

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 200 liters  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %  
 Date 3-31-9  
 Prepared By LK

## ANALYSIS

Grid Address A1940  
 Screen Magnification 2000  
 Camera Constant 29.8  
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu\text{A}$

Page 1 of 1  
**MICROSCOPE**  
 H600A - Serial No. 542-36-01  
 H600B - Serial No. 542-05-06  
 H600C - Serial No. 542-24-03

**A**  
 Analyst LK Date 3-31-9

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>0.0435</u>	<u>026</u>	<u>WD</u>	<u>1</u>	<u>210</u>		<input checked="" type="checkbox"/>											<u>EDS #1 Amosite</u>

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

**Very Light**   
**Very Light**   
**Good**

**Moderate**   
**Moderate**   
**Undissolved Filter**

**Heavy**   
**Heavy**   
**Folded**

**Very Heavy**   
**Very Heavy**

TEM-2A (8-01)  
05-182

Quantex 2000

Energy	Counts	Disp#	X-Ray Lines	Elapsed	Mod secs
0.46	608.	1	Li L <sub>1</sub> , Li L <sub>2</sub> , Li L <sub>3</sub> , Li L <sub>4</sub>		
1.08	221.	1	Be K , Be K <sub>2</sub> , Be K <sub>3</sub> , Be L <sub>1</sub> , Be L <sub>2</sub>		
1.70	1791.	1	B K , B K <sub>2</sub> , W L <sub>1</sub> , W L <sub>2</sub>		
5.98	67.	1	BN K		
6.41	2075.	1	Fe K <sub>2</sub> , Fe K <sub>3</sub>		
7.06	250.	1	Fe K <sub>1</sub> , Fe K <sub>2</sub>		

Quantex >  
0.000 Range= 10.230keV Integral 0 = 10.110  
20423

85-183

# TEM ANALYSIS

EMS Lab No. 23170  
 Client VAGLAKIS  
 Sample No. 5X040247

RECEIVING

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 19.2KX H600B - Serial No. 542-05-06   
 Camera Constant 26.9 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

ANALYSIS

Analyst Ledle Date 3/3/6

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>500</u>	<u>1</u>	<u>Wavy</u>															
<u>500</u>	<u>2</u>	<u>Wavy</u>															
<u>500</u>	<u>3</u>	<u>Wavy</u>															
<u>500</u>	<u>4</u>	<u>Wavy</u>															
<u>500</u>	<u>5</u>	<u>Wavy</u>															
<u>500</u>	<u>6</u>	<u>Wavy</u>															
<u>500</u>	<u>7</u>	<u>Wavy</u>															
<u>500</u>	<u>8</u>	<u>Wavy</u>															
<u>500</u>	<u>9</u>	<u>Wavy</u>															
<u>500</u>	<u>10</u>	<u>Wavy</u>															

16 Lines

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

184



# 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

4. NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
5. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
6. PERSONAL PROTECTIVE EQUIPMENT USED	7. MANUFACTURER <b>N/A</b>	8. APPROVAL No. (for Respirator)

9. 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:** 03-30-04  
**Project:** Vinyl Asbestos Tile & Mastic  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 206 Room : 18B Floor : Ground Floor

10. FREQUENCY (How long job takes) <b>N/A</b>	11. DURATION (How long at this job) <b>N/A</b>	12. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>
--	---	--

### 6. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	BKG/PCM	IWA/PCM	Clearance/TBM		
b. SAMPLE SUBMISSION NO.	SX040248	SX040249	SX040250		
c. TIME ON	13:00	07:35	11:10		
d. TIME OFF	14:50	09:35	13:10		
e. TOTAL TIME (In minutes)	110	120	120		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	10	10	10		
g. VOLUME (In liters)	1100	1200	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				
						b. TYPE				
Asbestos	F/cc	0.0088	F/cc	N.A.	S/m <sup>2</sup>	RESULT				
										DATE 04/01/0

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

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>03/30/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>03/30/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE <b>03/30/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	-------------------------	--

*95-185*

Date: 04/01/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/30/04, 03/30/04

Location: Bldg-206, RM-18B

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez Carrillo

Type of ACM: TSI Pipe Insulation w/ 2 Flows (3/4" Pipe)

Quantity of ACM: 7 LF

Abatement Type & Method(s): Wet, Glove Bag Inside Containment

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 \_\_\_\_\_ No X 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 X 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: SX040248
- 3. Perimeter: SX040249

*[Handwritten signature]*  
85-186

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040250
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: ½ Face North
- B. Coveralls: Yes, Tybec 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: 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 \_\_\_ No \_\_\_
- G. Amended Water Used: Yes X No \_\_\_ How Applied: Hudson Sprayer
- 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-P
- 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. 206, Floor G, Rooms 18B 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 03/31/04 are as follows:
- |                  |                 |                  |                                  |
|------------------|-----------------|------------------|----------------------------------|
| Bldg. <u>206</u> | Floor: _____    | Room: _____      | _____ Structures/mm <sup>2</sup> |
|                  | Floor: _____    | Room: _____      | _____ Structures/mm <sup>2</sup> |
|                  | Floor: _____    | Room: _____      | _____ fibers/cc                  |
|                  | Floor: <u>G</u> | Room: <u>18B</u> | <u>&lt;0.005</u> fibers/cc       |

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

Industrial Hygienist: Kevin J. Kelly, SST 97-2293

*05-187*

DATE: April 9, 2004  
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-C47259  
B 206, R 18B  
REPORT NO: 93186  
DATE RECEIVED: 4/1/04 at 1000  
DATE ANALYZED: 4/1/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040250

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.

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.



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 931186  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 4/1/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 4/1/04 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>	STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ 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>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Lower Limit Upper Limit
SX 040250	1200	-	N.D.	N.D.	0	0.02

85-189

- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments \_\_\_\_\_

# NIOSH FIBER COUNT (METHOD D 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:** 93186.1      **Date Received:** 4-1-04      **Filter Type:** 25 MM MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 4-12-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 3-30-04      **Project #:** B206.R18B      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** BEN SPIVEY      **File Name:** 93186.1V.A.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040248	100	20	25	9809	1110.0	0.0088	0.0024	0.0277	0.0004
SX040249	OVERLOADED				1200.0	N.A.	0.0022	0.0257	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. 2033      JEFF WAN      *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**

85-190

**SUBMITTAL FORM/Laboratory Services**

93186

PAGE 1 OF 1

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

REQUISITIONED BY Kelly  
 TIME / DATE 03-31-04

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

DATE OF SHIPMENT 03-31 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B206, R18B

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 03/30/03-31-04

HOLDING TIMES N/A

SAMPLE PRESERVATIVES N/A

SIGNATURE [Signature] PRINTED KELLY

NO. OF SAMPLES SENT 3 (2+1) SAMPLER'S NAME \_\_\_\_\_  
 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

93186-1-48	5X040248	BACKGROUND R18	PCM	1110L
↓ 49	5X040249	AVOIDANCE / R18B	PCM	1200L
93186-50	5X040250	CLEARANCE / R18B	PCM	1200L

NOTE: Please RUSH TEST ONLY.  
 Need results by 1 PM 04/01/04.  
 REMAINING SAMPLES (PCM), STANDARD JAZ.

[Signature]

(SF 5100)

FOR ONLY

Laboratory No. 93186  
 Date of Package Delivery 4-1-04

Received By [Signature] Time 10:00  
 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt OK

Condition of Custody Seal \_\_\_\_\_

No. of Samples 2 + 1

Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 4-1-04

Misc. Info. 85-191

TEM ASBESTOS AIR REPORT

V.A.G.L.A.H.S.  
 EMS NO: 93186  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040250  
 RECEIVED: 4/1/04 ANALYZED: 4/1/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.	

COMMENTS: VERY LIGHT TO LIGHT DEBRIS

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

85-192









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

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: 02-25-04

Project: Lead Based Paint (LBP) Removal

Contractor: Unlimited Environmental, Inc.

Location: Bldg. FQ90A Room: Master Bedroom Floor: 2<sup>nd</sup> 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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	BKG/LEAD	Clearance/LEAD			
b. SAMPLE SUBMISSION NO.	SX040208	SX040212			
c. TIME ON	11:45	09:50			
d. TIME OFF	13:45	11:50			
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/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
LEAD	mg/m <sup>3</sup>	<0.002	mg/m <sup>3</sup>	<0.002					03/02/04

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

8. IH COMMENTS TO LABORATORY  
LEAD

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) CALIBRATION DATE <b>02/25/04</b>	10b. FLOW RATE CALCULATIONS <b>10 liter/minute</b>	10c. (POST) CALIBRATION DATE <b>02/26/04</b>	10d. FLOW RATE CALCULATIONS <b>10 liter/minute</b>
--	---	---	---

11 NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293, Dr. Zainul Abedin</b>	DATE <b>02/26/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	-------------------------	---

AUTOMATED VA Form 10-0018 (In Lieu of)

85-195



4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040212
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tyveck 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: 1 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: Hudson Sprayer
- H. External AFD Filters Replaced Daily: Yes X No \_\_\_
- I. Wet Wiping and/or HEPA Vacuuming Done after LBP Abated: Yes X No \_\_\_
- J. Work Area Insp./Found to be Free of LBP Dust or Debris: Yes X No \_\_\_
- K. Encapsulation: Yes X No \_\_\_ Name & Type: Foster 32-P
- 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. FO90A, 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 02/26/04 are as follows:
- |                    |                              |                  |                                    |
|--------------------|------------------------------|------------------|------------------------------------|
| Bldg. <u>FO90A</u> | Floor: <u>2<sup>nd</sup></u> | Room: <u>MBR</u> | <u>&lt;0.002</u> mg/m <sup>3</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 : Kevin J. Kelly, SST 97-2293, Dr. Zainul Abedin

*KB-197*

DATE: March 4, 2004

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-C30452  
FQ90A/ BTWN 226, 227

REPORT NO: 92657.1

DATE OF SAMPLE COLLECTION: 2-25-04

DATE RECEIVED: February 27, 2004 at 10:00am

DATE ANALYZED: February 27, 2004

ACCREDITATION: American Industrial Hygiene Association (AIHA),  
Laboratory ID# 101634 (Full Accreditation)  
Environmental Lead NLLAP

SUBJECT: ANALYSIS OF ONE FILTER SAMPLE(S) FOR LEAD

The sample(s) was/were identified as: SX040208

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).

Respectfully submitted,

EMS Laboratories, Inc.



A. J. Kolk Jr.  
Technical Director

AJK/Am

*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.*

95-198

02-27-04

EMS LABORATORIES CHEMISTRY REPORT

page 2

CLIENT: VA-GLAHS

LABORATORY NUMBER: 92657.1

ELEMENT	DETECTION LIMIT
	(mg)
LEAD	<0.002

SAMPLE NAME	WEIGHT
ELEMENT	(mg)
BLANK	
LEAD	<0.002

METHOD: NIOSH 7082.  
 mg/m<sup>3</sup> = milligrams per cubic meter

SAMPLE NAME	WEIGHT	CONCENTRATION
ELEMENT	(mg)	(mg/m <sup>3</sup> )
SX040208	FILTER VOLUME 1200 liters	
LEAD	<0.002	<0.002

CHEMIST \_\_\_\_\_



95-199



**SUBMITTAL FORM / Laboratory Services**

92657

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

RELINQUISHED BY Kelly  
 TIME / DATE 02-26-04

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

DATE OF SHIPMENT 02-26 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_

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

CLIENT JOB/PROJECT ID NO(S) FQ90A / BTW 266, 267  
 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 02-25-04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT 5 (1+1+3) SAMPLER'S NAME \_\_\_\_\_

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.

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME, TIME/WEIGHT IF APPLICABLE.
92657-7	EX040207	BKGND / MBR	MDU
92657.1-8	EX040208	BKGND / MBR	LEAD
92657.2-9	BU040209	FLOOR TILE & MASTIC <sup>BTW 266, 267</sup>	PLM BULK
↓ 10	BU040210	FLOOR TILE & MASTIC	PLM BULK
↓ 11	BU040211	FLOOR TILE & MASTIC	PLM BULK

RUSH ⇒ Need RESULTS FOR BU040209 + 211 ASAP by 12 noon on 2/27/04 EMU

(SF 5/00)

FOR ONLY

Laboratory No. 92657.1

Received By [Signature] Time 10:00

Date of Package Delivery 2-27-04

Shipping Bill Returned: 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 1 + 1 + 3

Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 2-27-04

Misc. Info. 85-200

Disposition of Samples EMU WAB



12-27-04

EMS LABORATORIES CHEMISTRY REPORT

page 3 of 3

CLIENT: VA-GLAHS

LABORATORY NUMBER: 92656

ELEMENT DETECTION LIMIT

LEAD (mg) < 0.002

SAMPLE NAME WEIGHT

ELEMENT (mg)

BLANK LEAD < 0.002

METHOD: NIOSH 7082

mg/m<sup>3</sup> = milligrams per cubic meter

SAMPLE NAME WEIGHT

ELEMENT (mg)

CONCENTRATION

(mg/m<sup>3</sup>)

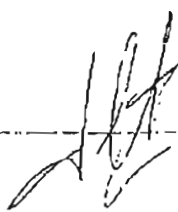
SX040212

FILTER VOLUME 1200 liters

LEAD < 0.002

< 0.002

CHEMIST



95-201



Department of Veterans Affairs

# AIR SAMPLING DATA

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

## 4. EMPLOYEE INFORMATION

a. 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:** 02-26-04  
**Project:** Vinyl Asbestos Floor Tile Mastic  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. FO90A Room :      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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	BKG/PCM	Clearance/TEM			
b. SAMPLE SUBMISSION NO.	SX040213	SX040214			
c. TIME ON	12:00	14:15			
d. TIME OFF	14:00	16:15			
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/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	0.025	S/m <sup>2</sup>	N.D					03/02/04

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy(PCM) / 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 Dr., Pasadena, CA 91105-2503	PAT NUMBER
10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)	

10a. (PRE) CALI- BRATION DATE 02/26/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 02/26/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293		DATE 02/26/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO

AUTOMATED VA Form 10-0018 (In Lieu of)

*Handwritten signature/initials: 05-202*

Date: 02/26/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 02/26/04

Location: Bldg-FQ90A

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: Vinyl Asbestos Floor Tile Mastic

Quantity of ACM: 345 Sq. Feet

Abatement Type & Method(s): Wet Scraping

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 \_\_\_\_\_ No X 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 X 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: SX040213

*85-203*

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040214
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tyveck 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: 1 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: Hudson Sprayer
- 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-P
- 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. FQ90A, 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 02/26/04 are as follows:
 

Bldg. <u>FQ90A</u>	Floor: <u>BSMT</u>	Room: <u>Hall</u>	<u>N.D</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 : Kevin J. Kelly, SST 97-2293

*BB-204*

# 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: 92656.1 Date Received: 2-27-04 Filter Type: MCE Filter Area: 3AS  
 Client: VAGLAHS Date Analyzed: 3-2-04 Mag: 400x Field Area: 0.00785MM  
 Address: 1100 WILSHIRE BLVD Date Sampled: NA Project #: FQ Filter Size: 25MM  
 LOS ANGELES, CA 90073 Attention: B SIVIKY File Name: 92656.1 VAGLAHS-AIR

Sample ID	Fibers Counted	F/8µm	Fiber/Filter	Volume (µL)	Fibers/CC	LOD	LOQ	ANL-SENT
SN040213	61	78	29917	1200.0	0.075	0.0022	0.0257	0.0004

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

ALLIA Registered Adhesive Analyst  
 ID: 7395 CARL BERGMAN  
 ID: 2033 JEFF WAN  
 ID: 1276 S. AHMAD

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

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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EMS LABORATORIES 117 West Bellevue Dr./ Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

89-205

# RESULTS OF AIR FILTER ANALYSIS by TEM, Asbestos Structures

EMS Laboratory No. 92R56.2  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_  
 Date Received 2/27/04 Verbal Results \_\_\_\_\_  
 Date Analyzed 2/27/04 Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> <input type="checkbox"/> INDIRECT PREP <input type="checkbox"/> <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>	STRUCTURE SIZE All Sizes (EPA) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ≥ 0.5 μm Length <input checked="" type="checkbox"/> <input type="checkbox"/> ≥ 5 μm Length <input type="checkbox"/> <input type="checkbox"/> PCM Range* <input type="checkbox"/> *(≥ 0.25 μm Width, ≥ 5.0 μm Length)
---	--	---	---

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (pg/m <sup>3</sup> )	Structures/mm <sup>2</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS Lower Limit	Upper Limit
SX 040214	1200	N.D.	N.D.	0.005	0	0.02	

\* "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., 1984)  
 \* PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

85-206  
 EMS LABORATORIES  
 117 West Bellevue Drive / Pasadena, CA 91105-2503 / 626-568-4065 / Fax: 626-796-5282



Department of Veterans Affairs

# AIR SAMPLING DATA

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

## 4. EMPLOYEE INFORMATION

a. 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: 03-01-04  
 Project: Ceiling and Electrical Wire Removal  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. FQ90A Room: Master Bedroom & Hall Floor: 2<sup>nd</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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	Clearance/TEM				
b. SAMPLE SUBMISSION NO.	SX040217				
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"/> C/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

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	a. PERCENTAGE			DATE
						RESULT	UNIT	RESULT	
Asbestos	S/m <sup>2</sup>	N.D							03/02/04

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy(PCM) / 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 Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 03/01/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 03/01/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling)  
 Kevin J. Kelly, SST 97-2293

DATE  
03/01/04

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

*JS-207*

Date: 03/01/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/01/04

Location: Bldg-FQ90A

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: Ceiling and Electric Wire Removal

Quantity of ACM: 268 Sq. Feet

Abatement Type & Method(s): Wet demolition of ceiling under full containment. HEPA vacuum and Negative 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 \_\_\_\_\_ No X 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 X 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: \_\_\_\_\_

*25-208*



4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040217
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tyveck 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: 1 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: Hudson Sprayer
- 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-P
- 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. FQ90A, 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 03/01/04 are as follows:
- |                    |                              |                  |                                      |
|--------------------|------------------------------|------------------|--------------------------------------|
| Bldg. <u>FQ90A</u> | Floor: <u>2<sup>nd</sup></u> | Room: <u>MBR</u> | <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 : Kevin J. Kelly, SST 97-2293

*Handwritten signature and number: 85-209.*

DATE: March 2, 2004  
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-C30452  
FQ 90A/ELEC ACM  
DATE COLLECTED: 3/1/04 by K. Kelly  
REPORT NO: 92706  
DATE RECEIVED: 3/2/04 at 0700  
DATE ANALYZED: 3/2/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040217

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.

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.

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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 for Asbestos Structures

EMS Laboratory No. 92706  
 Client V.A.G.I.A.H.S. Date Received 3/2/04 Verbal Results \_\_\_\_\_  
 Location \_\_\_\_\_ Date Analyzed 3/2/04 Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>	STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ 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>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit

SX 040217      1200      -      N.D.      N.D.      0.005      0      0.02

TEM - 3A (02-04)

*Handwritten signature and date: 2/2*

- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments \_\_\_\_\_

TEM ASBESTOS AIR REPORT

V.A.G.L.A.H.S.  
 EMS NO: 92706  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040217  
 RECEIVED: 3/2/04 ANALYZED: 3/2/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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/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.	

COMMENTS: LIGHT TO MODERATE DEBRIS

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

95-213

# TEM BESTOS ANALYSIS

EMS Lab No. 92706  
 Client VAL LABS  
 Sample No. SX040217

## 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\*  
 \*1=0.25 µm width, <5.0 µm length

## TYPE OF SAMPLE

Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

## PORE SIZE

0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

## FILTER TYPE/AREA (µm)

MCE/085   
 MCE/314   
 MCE/1017   
 Other

## ANALYSIS

DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 liters  
 Working Volume 25 ml  
 Weight \_\_\_\_\_ grams  
 Ashed Arise \_\_\_\_\_ %

Date 3-2-04  
 Prepared By PS

G.O. Area (mm) 0.0091  
 No. of G.O. to Analyze 7

Page

of

## MICROSCOPE

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

Grid Address A  
 Screen Magnification 9100X  
 Camera Constant 25  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

# A

Analyst Lachy Date 3-2-04

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysothale	Amphibole	Ambiguous	Non Asbestos	Tio Pattern	Na	Mg	Si	Ca		Fe	Id
<u>W14</u>	<u>W14</u>	<u>W14</u>															
<u>W15</u>	<u>W15</u>	<u>W15</u>															
<u>W13</u>	<u>W13</u>	<u>W13</u>															
<u>W13</u>	<u>W13</u>	<u>W13</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. 92706  
 Client VAGLAR  
 Sample No. SX0027

**RECEIVING**

Page 1 of 1  
 COPE

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification 1500X H600B - Serial No. 542-05-08   
 Camera Constant 286 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

Analyst SFA Date 3/2/02

**ANALYSIS**

Grid Opening	Structure	Structure	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>F51-N50</u>																				
<u>C446-N50</u>																				
<u>H444-N50</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

85-215

# 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:** 03-22-04  
**Project:** Removal TSI - Steamlines & Valves  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. MH Room : 65 Floor : N/A

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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	DURING/PCM	Clearance/TEM			
b. SAMPLE SUBMISSION NO.	SX040231	SX040232			
c. TIME ON	09:10	1245			
d. TIME OFF	1110	1445			
e. TOTAL TIME (In minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	10	10			
g. VOLUME (In liters)	1200	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	
						b. TYPE					
Asbestos	F/cc	0.025	S/m <sup>2</sup>	N.D							03/25/04

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy(PCM) / 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 Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE <b>03/22/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE <b>03/22/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling)  
**Kevin J. Kelly, SST 97-2293**

DATE  
**03/22/04**

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

85-216



Date: 03/22/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/22/04

Location: MH 65

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez Cabrillo

Type of ACM: Remove TSI from Steamlines

Quantity of ACM: 40 Ln. Ft.

Abatement Type & Method(s): Wet, Peel/Glovebag Inside Containment

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 No X 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 N/A 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 X 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: SX040231

*85-217*

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040232
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: Yes X No     Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No     No. Chambers: 1 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: Hudson Sprayer
- 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 Bridging
- 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. MH 65, Floor N/A, Rooms N/A 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 03/22/04 are as follows:

Bldg. <u>MH 65</u>	<u>N.D.</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

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

Industrial Hygienist : Kevin J. Kelly, SST 97-2293

*Handwritten signature/initials: KS 2/18*

# 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:** 93016.1      **Date Received:** 3-23-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analysed:** 3-25-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 3-22-04      **Project #:** STEAM TUNNELS/MH 65      **Filter Size:** Z5MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 93016.1VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANLSENT.
SX040231	100	60	76	29427	1200.0	0.025	0.0022	0.0257	0.0004

LOD = LIMIT OF DETECTION (7 FIBERS/ Sq.mm)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/ Sq.mm)

ANLSENT = 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      SAHMAD

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

*85-219*

Interlaboratory Sr is taken as 0.45. Intralaboratory Sr is 0.3  
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**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**



DATE: March 25, 2004  
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-C47259  
Steam Tunnels/ MH 65  
DATE COLLECTED: 3/22/04 by K. Kelly  
REPORT NO: 93016  
DATE RECEIVED: 3/23/04 at 1000  
DATE ANALYZED: 3/23/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040232

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.

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.

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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 for Asbestos Structures

▶ EMS Laboratory No. 93016      ▶ Date Received 3/23/04      ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S.      ▶ Date Analyzed 3/23/04      ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> 3:1 <input type="checkbox"/> INDIRECT PREP <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>		ASPECT RATIO	
All Sizes (EPA) <input type="checkbox"/> ≥5 μm Length <input type="checkbox"/> ≥0.5 μm Length <input checked="" type="checkbox"/> PCM Range* <input type="checkbox"/> ≥5 μm Length <input type="checkbox"/> *(≥0.25 μm Width, ≥5.0 μm Length)		STRUCTURE SIZE	

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit
SX 040232	1200	-	N.D.	N.D.	0.005	0
						0.02

*Handwritten signature and number 222*

TEM - 3A (02-04)

- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments \_\_\_\_\_

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 93016  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040232  
 RECEIVED: 3/23/04 ANALYZED: 3/23/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

85-223

# TEM ANALYSIS

EMS Lab No. 3016  
 Client VAGLARS  
 Sample No. SX040732

**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) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*   
 \*1-0.25 µm width > 5.0 µm length

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

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

G.O. Area (mm²) 695  
 No. of G.O. to Analyze 1

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 liters  
 Working Volume 28.4 ml  
 Weight 100 grams  
 Ashed Area 0.33304  
 Date 03/23/04  
 Prepared By CK

**ANALYSIS**  
 Grid Address A 1909  
 Screen Magnification 28.4  
 Camera Constant 100 KV  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA  
 Date 03/23/04  
 Analyst K Lock

Page 7 of 7

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

**RECEIVING**

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

**16 Lines**

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

85-224



# TEM ASPESTOS ANALYSIS

EMS Lab No. VR6666  
 Client VR6666  
 Sample No. SX040232

MICROSCOPE

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 910x H600B - Serial No. 542-05-06   
 Camera Constant 28.9 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu$ A

## ANALYSIS

Analyst S.A Date 3/23/04

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>036</u>	<u>N50</u>																
<u>046</u>	<u>N50</u>																
<u>045</u>	<u>N50</u>																
<u>045</u>	<u>N50</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

225

## RECEIVING

# 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:** 03-23-04

**Project:** Removal TSI – Steamlines & Valves

**Contractor:** Unlimited Environmental, Inc.

**Location:** Bldg. MH Room : 64 Floor : N/A

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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	DURING/PCM	Clearance/TEM			
b. SAMPLE SUBMISSION NO.	SX040233	SX040234			
c. TIME ON	0815	1220			
d. TIME OFF	1015	1420			
e. TOTAL TIME (in minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/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

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	a. PERCENTAGE		b. TYPE		DATE
					UNIT	RESULT	UNIT	RESULT	
Asbestos	F/cc	Overloaded	S/m <sup>2</sup>	N.D					03/24/04

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
Phase Contrast Microscopy(PCM) / 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 Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>03/23/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>03/23/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling)  
**Kevin J. Kelly, SST 97-2293**

DATE  
**03/23/04**

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

85-226

Date: 03/23/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/22/04

Location: MH 65

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez Cabrillo

Type of ACM: Remove TSI from Steamlines

Quantity of ACM: 60 Ln. Ft.

Abatement Type & Method(s): Wet, Peel/Glovebag Inside Containment

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 \_\_\_\_\_ No X 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 N/A 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 X 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: SX040233

85-227

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040234
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: Yes X No     Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No     No. Chambers: 1 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: Hudson Sprayer
- 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 Bridging
- 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. MH 64, Floor N/A, Rooms N/A 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 03/23/04 are as follows:

Bldg. <u>MH 64</u>	<u>N.D.</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

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

Industrial Hygienist: Kevin J. Kelly, SST 97-2293

*95-228*

# 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:** 93040.1      **Date Received:** 3-24-04      **Filter Type:** MCE      **Filter Area:** .385  
**Client:** VAGLAHS      **Date Analysed:** 3-24-04      **Mag:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 3-23-04      **Project #:** STEAM TUNNELS/NH164      **Filter Size:** 25MM  
LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 93040.1VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/ Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040233	OVERLOADED			1200.0	NA			

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

Intra-laboratory Sr is taken as 0.4\$ Intra-laboratory Sr is 0.3      Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

95-229



DATE: March 25, 2004  
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-C47259  
Steam Tunnel/ MH 64  
DATE COLLECTED: 3/23/04 by K. Kelly  
REPORT NO: 93040  
DATE RECEIVED: 3/24/04 at 1000  
DATE ANALYZED: 3/24/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040234

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.

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.

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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.



**SUBMITTAL FORM/Laboratory Services**

93040

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

RELINQUISHED BY KELLY

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

TIME / DATE 03-23-04  
 DATE OF SHIPMENT 03-23 CARRIER

TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

CLIENT P.O. NO.   
 CLIENT JOB/PROJECT ID NO(S) STEAM TRAP/MS/64

RESULTS REQUESTED VIA VERBAL  FAX

PACKAGE SHIPPED FROM [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 03-23-04

SAMPLE PRESERVATIVES all HOLDING TIMES   
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME [Signature] / KELLY  
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
93040-33	SX040233	CONTAINED SPACE PAINT	PCM 1200L
93040-34	SX040234	CLEANERS	TEM 1200L
<i>[Large handwritten signature]</i>			

(SF 5/00)

93040

Laboratory No. 93040 Received By [Signature] Time 10:00  
 Date of Package Delivery 3-24-04 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 (7) Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 3-24-04 Misc. Info. 85-232  
 Disposition of Samples EMS LAB

FOR EMLNLY



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 93040  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 3/24/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 3/24/04 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>		STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ 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>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Lower Limit Upper Limit

SX 040234	1200	-	N.D.	N.D.	0.005	0	0.02
-----------	------	---	------	------	-------	---	------

*9-233*

- 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., 1984)
  - PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.
- Comments \_\_\_\_\_

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 93040  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040234  
 RECEIVED: 3/24/04 ANALYZED: 3/24/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

93-234

# TEM ANALYSIS

EMS Lab No. 93240  
 Client V. B. LAITS  
 Sample No. 5X0407-324

### METHOD OF ANALYSIS

EPA Yamato 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 (mm<sup>2</sup>)  
 MCE/385   
 MCE/314   
 MCE/1017   
 Other

### PORE SIZE

0.45 µm   
 0.9 µm   
 0.1 µm   
 0.22 µm   
 Other

G.O. Area (mm<sup>2</sup>) 0.0  
 No. of G.O. to Analyze 075

### PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 µliters  
 Working Volume 27.9 ml  
 Weight 10 grams  
 Ashed Area 10 %

Date 3-24-04  
 Prepared By SKL

### ANALYSIS

Grid Address A  
 Screen Magnification 1920x  
 Camera Constant 27.9  
 Accelerating Voltage 100 kV  
 Beam Current 10 µA

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

# A

Analyst Lodha Date 3/24

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>500</u>	<u>1</u>	<u>W/1</u>														
<u>500</u>	<u>2</u>	<u>W/2</u>														
<u>500</u>	<u>3</u>	<u>W/3</u>														
<u>500</u>	<u>4</u>	<u>W/4</u>														
<u>500</u>	<u>5</u>	<u>W/5</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

95-235

# TEM ASBESTOS ANALYSIS

EMS Lab No. 0246  
 Client VACALAB  
 Sample No. 5X040254

Grid Address B H6M0A - Serial No. 542-36-01   
 Screen Magnification 19780 x H6M0B - Serial No. 542-05-06   
 Camera Constant 28.9 H6M0C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

## ANALYSIS

Analyst DB-24-045 Date 1/11/81

RECEIVING

Grid	Structure	Structure	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments					
				Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id			

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

85-236

# AIR SAMPLING DATA

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

4. EMPLOYEE INFORMATION		
a. 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: 03-24-04  
 Project: Removal TSI - Steamlines & Valves  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. MH Room : 62 Floor : N/A

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	DURING/PCM	Clearance/TEM			
b. SAMPLE SUBMISSION NO.	SX040237	SX040238			
c. TIME ON	1050	1330			
d. TIME OFF	1250	1530			
e. TOTAL TIME (In minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> <sup>cc</sup> /min	10	10			
g. VOLUME (In liters)	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. TYPE
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	DATE
Asbestos	F/cc	0.002	S/m <sup>2</sup>	N.D		03/25/04

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy (PCM) / 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 Dr., Pasadena, CA 91105-2503	PAT NUMBER
---	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 03/24/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 03/24/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293	DATE 03/24/04	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..
--	------------------	--

85-237

Date: 03/24/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/24/04

Location: MH 62

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez Cabrillo

Type of ACM: Remove TSI from Steamlines

Quantity of ACM: 30 Ln. Ft.

Abatement Type & Method(s): Wet, Peel/Glovebag Inside Containment

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 N/A 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: SX040237

*95-238*

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040238
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: Yes X No \_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No \_\_\_ No. Chambers: 1 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: Hudson Sprayer
- 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 Bridging
- 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. MH 62, Floor N/A, Rooms N/A 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 03/23/04 are as follows:

Bldg. <u>MH 62</u>	<u>N.D.</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 : Kevin J. Kelly, SST 97-2293

*85-239*

# 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:** 03-25-04  
**Project:** Removal TSI - Steamlines & Valves  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. MH Room : 63 Floor : N/A

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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	DURING/PCM	Clearance/TEM			
b. SAMPLE SUBMISSION NO.	SX040235	SX040236			
c. TIME ON	0920	1240			
d. TIME OFF	1120	1440			
e. TOTAL TIME (In minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/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	F/cc	0.002	S/m <sup>2</sup>	N.D					04/01/04

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

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>03/24/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>03/24/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE <b>03/24/04</b>	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

*85-240*



Date: 03/25/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/25/04

Location: MH 63

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez Cabrillo

Type of ACM: Remove TSI from Steamlines

Quantity of ACM: 30 Ln. Ft.

Abatement Type & Method(s): Wet, Peel/Glovebag Inside Containment

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 \_\_\_\_\_ No X 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 N/A 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 X 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: SX040235

*Handwritten signature/initials*

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040236
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: Yes X No     Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No     No. Chambers: 1 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: Hudson Sprayer
- 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 Bridging
- 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. MH 63, Floor N/A, Rooms N/A 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 03/23/04 are as follows:

Bldg. <u>MH 63</u>	<u>N.D.</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

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

Industrial Hygienist : Kevin J. Kelly, SST 97-2293

*Handwritten signature/initials: KJK 2/2*

# 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: 93070.1 Date Received: 3-25-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 4-01-04 Mag: 400X Field Area: 0.00785MM  
 Address: 11361 WILSHIRE BLVD Date Sampled: 3-24-04 Project #: SILAM TANKS Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 93070.1.VA.AJR

Sample I.D.	Fields Counted	Fibers Counted F/ Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040235	100	4	5	1962	1200.0	0.0022	0.0004
SX040237	100	5	6	2452	1200.0	0.0022	0.0004

LOD = LIMIT OF DETECTION (7 FIBERS/ Sq.mm) ANL SENT = ANALYTICAL SENSITIVITY (1 FIBER/LITER)  
 LOQ = LIMIT OF QUANTITATION (60 FIBERS/ Sq.mm) N.A. = NOT AVAILABLE N.D. = NONE DETECTED

*S. Ahmad*

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

B.M. Kulk, Laboratory Director

95-243

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

**93070.**

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
 TIME / DATE 03-24-04

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 3018

DATE OF SHIPMENT 03-24 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) \_\_\_\_\_

TELEPHONE BEN GARVEY  
 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 03-24-04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 4 (2+2) SAMPLER'S NAME [Signature] L. K. KELLY  
 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)
93070.1-35	SXC40235	CONF. SHRE: ENTRY AREA MH63	PCM 1200L
93070-36	SXC40236	CLEARANCE MH63	TEM 1200L
93070.1-37	SXC40237	CONF. SHRE ENTRY AREA MH62	PCM 1200L
93070-38	SXC40238	CLEARANCE MH62	TEM 1200L
<p><i>NOTE: SAMPLES FOR PCM ANALYSIS STANDARD TAT PLEASE RUSH THE PERMITS. TEM SAMPLES SXC40236, SXC40238 &lt;8HR RUSH! THANK!</i></p>			

(SF 5/00)

FOR EMS ONLY

Laboratory No. 93070.1 Received By [Signature] Time 10:00  
 Date of Package Delivery 3-25-04 Shipping Bill Received: YES  NONE   
 Condition of Package on Receipt uc Condition of Custody Seal uc  
 (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+2 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 3-25-04 Misc. Info. [Signature]  
 Disposition of Samples EMS LABS

93-244

# TEM ANALYSIS

EMS Lab No. 92417  
 Client VA G LAIN  
 Sample No. SX040181

**METHOD OF ANALYSIS**  
 EPA Yarnate Level I   
 Level II   
 Level III   
 AHERA  5:1

**LENGTHS**  
 All Sizes (EPA)  
 (µm) : > 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*  
 \*0.25 µm width, > 0.0 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

G.O. Area (mm²) 0.0247  
 No. of G.O. to Analyze 7

## ANALYSIS

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 1200 litres  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %  
 Date 2/12/94  
 Prepared By KK

Grid Address A100  
 Screen Magnification 28.4  
 Camera Constant 1000 KV  
 Accelerating Voltage \_\_\_\_\_ µA  
 Beam Current \_\_\_\_\_ 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 2-12-94  
 Analyst CLOCK

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	td
<u>923 NSI</u>	<u>923 NSI</u>	<u>923 NSI</u>														
<u>923 NSI</u>	<u>923 NSI</u>	<u>923 NSI</u>														
<u>923 NSI</u>	<u>923 NSI</u>	<u>923 NSI</u>														
<u>923 NSI</u>	<u>923 NSI</u>	<u>923 NSI</u>														

15 Lines

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

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

Light   
 Light   
 Scrappy

Very Light   
 Very Light   
 Good



# AIR SAMPLING DATA

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

NAME OF EMPLOYEE <b>N/A</b>	SSN <b>N/A</b>	JOB TITLE
ADDRESS (Street, City, State & Zip Code) <b>N/A</b>		
a. PERSONAL PROTECTIVE EQUIPMENT USED	b. MANUFACTURER <b>N/A</b>	i. 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:** 02-17-04  
**Project:** Confirmation TEM Analysis From Inside Room  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 258 Room : 220J Floor : 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 1	SAMPLE	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Inside Room /TEM				
b. SAMPLE SUBMISSION NO.	SX040190				
c. TIME ON	10:50				
d. TIME OFF	12:50				
e. TOTAL TIME (In minutes)	120				
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> cfm	10				
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. TYPE
Unit	S/mm <sup>2</sup>	SAMPLE	SAMPLE	SAMPLE	SAMPLE
Asbestos ( TEM )	N.D.				

**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 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER

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

10a. (PRE) CALI- BRATION DATE <b>02/17/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE <b>02/17/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE <b>02/17/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

*Handwritten signature/initials*

Date: 02/17/04  
From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 02/17/04

Location: Bldg. 258 Room : 220J Floor : 2nd

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM: TSI removal

Quantity of ACM:

Abatement Type & Method(s): Glove Bag & Scrape Up Inside Containment

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 \_\_\_\_\_ 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: N/A Yes \_\_\_\_\_ 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 \_\_\_\_\_ Worker's Name/SS #:

2. Pre-Tests:

3. Perimeter:

85-248



- 4. Inside Work Area: SX040190
- 5. Clearance:
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: 1 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: Hudson Sprayer
- 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 Bridging
- 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 : 2<sup>nd</sup> Rooms : 220J 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 02/17/04 are as follows:

Bldg. <u>258</u>	Floor: <u>2nd</u>	Room: <u>220J</u>	<u>N.D.</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 : Kevin J. Kelly, SST 97-2293

*JK-249*

DATE: February 20, 2004  
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-C30452  
B258 R220 J  
DATE COLLECTED: 2/17/04 by K. Kelly  
REPORT NO: 92477  
DATE RECEIVED: 2/18/04 at 0930  
DATE ANALYZED: 2/18/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX040190

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.

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.




# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 92395  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 2/18/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 2/18/04 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>		STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ Length <input type="checkbox"/> $\geq 0.25 \mu\text{m}$ Width, $\geq 5.0 \mu\text{m}$ Length) <input type="checkbox"/>	
---	--	---	--	---	--

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (ng/m <sup>3</sup> )	Structures/mm <sup>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit

SX 040190	1200	0	N.D.	N.D.	0.005	0	0.02
-----------	------	---	------	------	-------	---	------

TEM - 3A (02-04)  


- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments \_\_\_\_\_

DATE: December 12, 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-C30452  
B 256 Room 16 SW  
DATE COLLECTED: 12/10/03 by James Spencer  
REPORT NO: 91461.1  
DATE RECEIVED: 12/11/03 at 1000  
DATE ANALYZED: 12/11/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX030308

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.

The test reports are enclosed.

Respectfully submitted,

FMS LABORATORIES, INC.

  
B. M. Kolk  
Laboratory Director

BMK/ah

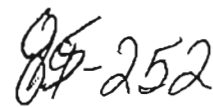
NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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 FMS 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.



**SUBMITTAL FORM/Laboratory Services:**

**91461.1**

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

RECEIVED BY Zadnut TIME / DATE 12/10/03

CLIENT VA GLASS (130b) DATE OF SHIPMENT 12/10 CARRIER

ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO.

LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). B 256 Room 16 SW

TELEPHONE [REDACTED] PACKAGE SHIPPED FROM

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 12/10/03

SAMPLE PRESERVATIVES No HOLDING TIMES None

NO. OF SAMPLES SENT 3 SAMPLER'S NAME James Spencer

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)				VOLUME
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS		TIME WEIGHT IF APPLICABLE
<u>91461-6</u>	<u>SX030306</u>	<u>Background</u>	<u>PCM</u>	<u>1275</u>
<u>7</u>	<u>SX030307</u>	<u>Decon Area</u>	<u>PCM</u>	<u>1350</u>
<u>91461.1-8</u>	<u>SX030308</u>	<u>Clearance Inside</u>	<u>TEM</u>	<u>1200</u>
<u>Note: TEM Results needed by 12 Noon on 12/11/03</u>				

Laboratory No. 91461.1 Received By [Signature] Time 10:00

Date of Package Delivery 12-11-03 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 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 12-11-03 Misc. Info. 85-253

Disposition of Samples EMS LAB

FOR EMS ONLY (SF 5/00)

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 91461.1  
 ▶ Client V.A.G.L.A.R.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 12/11/03  
 ▶ Date Analyzed 12/11/03  
 ▶ Verbal Results \_\_\_\_\_  
 ▶ Fax Results \_\_\_\_\_

DIRECT PREP	ASPECT RATIO	STRUCTURE SIZE
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> 25 $\mu$ m Length
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 0.5 $\mu$ m Length
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1 $\mu$ m Length
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 25 $\mu$ m Width
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 50 $\mu$ m Length

Sample Identification: \_\_\_\_\_  
 Volume: \_\_\_\_\_  
 Mass in mg: \_\_\_\_\_  
 Analytical Sensitivity: \_\_\_\_\_  
 Structure cc: \_\_\_\_\_  
 Lower Limit: \_\_\_\_\_  
 Upper Limit: \_\_\_\_\_

SX 030308      1200      -      N.D.      N.D.      0.005      0      0.02

254  
 TEM - 3A (12-09)

- "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: 91461.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030308  
 RECEIVED: 12/11/03 ANALYZED: 12/11/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0672  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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.	/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.	/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.

*Handwritten:* 85-255

# TEM ANALYSIS

EMS Lab No. VA 6141A  
 Client VA 6141A  
 Sample No. SX030301

## 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\*  
 \*1-0.25 µm width, 35.0 µm length

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

FILTER TYPE/AREA (mm²)  
 MCE/365   
 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 7

## PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 12.5 µl  
 Working Volume     ml  
 Weight     grams  
 Ashed Area     %

Date 12-11-03  
 Prepared By    

Grid Address A  
 Screen Magnification 1900x  
 Camera Constant 26.7  
 Accelerating Voltage 100KV  
 Beam Current 10 µA

Date 12-11-03  
 Analyst Kadhe

Page     of    

## MICROSCOPE

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

# A

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation	EOS Analysis					Comments								
			Width	Length	Thickness		Na	Mg	Si	Ca	Fe		Id							
H4.3						Chrysotile														
H4.3						Amphibole														
H4.3						Amfibious														
H4.3						Non Asbestos														
H4.3						No Pattern														

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 Bellevue Drive • Pasadena, CA 91105-2503 • (626) 568-4065





# 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

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: December 12, 2003  
 Project: Removal of 12"x12" & 9"x9" Floor Tiles and Mastic.  
Wet Method Removal under HEPA Vacuum & exhaust, and Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 256 Room: 13 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 01 12/15/03	SAMPLE 02 12/15/03	SAMPLE 03 12/16/03	SAMPLE 04 12/16/03	SAMPLE 05	SAMPLE 06
a. SAMPLE TYPE/MEDIA	BG/PCM	BG/PCM	Area/PCM	Decor/PCM		
b. SAMPLE SUBMISSION NO.	SX030312	SX030313	SX030320	SX030321		
c. TIME ON	9:00	9:05	8:45	8:50		
d. TIME OFF	10:30	10:35	13:45	13:50		
e. TOTAL TIME (In minutes)	90	90	300	300		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	15	15	4	4		
g. VOLUME (In liters)	1350	1350	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. Date: 12-15-03
---------------	-------------------

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESUL T	UNIT	RESU LT	UNIT	RESU LT
Asbestos	F/CC	0.021	F/CC	NA	F/CC	0.0045	F/CC	0.0025		

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

(PRE) CALI- BRATION DATE 12/15/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI- BRATION DATE 12/16/03	10d. FLOW RATE CALCULATIONS 15 l/min
---	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 12/16/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	---

89-258

# 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. 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)
---------------------------------------	------------------------	----------------------------------

e. 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: December 17, 2003  
 Project: Removal of 12"x12" & 9"x9" Floor Tiles and Mastic.  
Wet Method Removal under HEPA Vacuum & exhaust, and Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg: 256 Room: 13 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 01 12/17/03	SAMPLE 02 12/17/03	SAMPLE 03 12/18/03	SAMPLE 04 12/18/03	SAMPLE 05 12/19/03	SAMPLE 6
a. SAMPLE TYPE/MEDIA	Area/PCM	Decon/PCM	Area/PCM	Area/PCM	CL/TEM	
b. SAMPLE SUBMISSION NO.	SX030328	SX030329	SX030330	SX030331	SX030338	
c. TIME ON	8:45	8:45	08:40	08:45	8:15	
d. TIME OFF	14:40	14:45	14:40	14:45	10:15	
e. TOTAL TIME (In minutes)	360	360	360	360	120	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	4	4	4	4	12	
g. VOLUME (In liters)	1440	1440	1440	1440	1440	

**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: 12-17-03									

SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESU T	UNIT	RESU LT	UNIT	RESU LT
Asbestos	F/CC	0.0036	F/CC	0.0007	F/CC	0.011	F/CC	0.0158	S/mm <sup>2</sup>	ND

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

(PRE) CALI- BRATION DATE 12/17/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALI- BRATION DATE 12/19/03	10d. FLOW RATE CALCULATIONS 15 l/min
---	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 12/19/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	---

85-259



5. Clearance: SX030338 on 12/19/03

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      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: 1 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. 256 Floor 1st Rooms 13 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 12/19/03 are as follows:

Bldg. <u>256</u>	Floor: <u>J<sup>n</sup></u>	Room: <u>13</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

85-26

SUBMITTAL FORM / Laboratory Services

PAGE 1 of 1

91645

ANALYSIS TIME: STD  48 HR.  24 HR.  OTHER

PREPARED BY K. Kelly  
DATE / TIME 12.19.03

CLIENT VA-GLASS (1306)  
ADDRESS 1301 WILSHIRE BLVD, BLDG 210  
LOS ANGELES, CA 90025 RM 308

DATE OF SHIPMENT 12.19.03 CARRIER  
CLIENT P.O. NO.  
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 12.19.03

SAMPLE PRESERVATIVES NB HOLDING TIMES

NO. OF SAMPLES SENT 1 SAMPLER'S NAME K. Kelly

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER TEM

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO

RESPIRATOR LOCATION ANALYSIS

91645-38

EX 030338

BLDG 256, RM 13, CONTIN. ASBESTOS

(SE 500)

FOR EMS ONLY

Laboratory No. 91645

Date of Package Delivery 12.22.03

Received By [Signature] Date 12-22-03  
Shipping Bill Retained YES  NONE

Condition of Package on Receipt an 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 12.22.03 Misc. Info [Signature]

Disposition of Samples EMG UAM

# RESULTS OF AIR FILTER ANALYSIS by for Asbestos Structures

NOV 2000 12:21PM HP LASERJET 3200

EMS Laboratory No. 91645 Date Received 12-22-03 Verbal Results 12-22-03  
Client V A W A H Date Analyzed 12-22-03 FAX Results 12-22-03  
Reference No. \_\_\_\_\_

Direct Preparation  ASPECT RATIO \_\_\_\_\_ STRUCTURE SIZE \_\_\_\_\_  
Indirect Preparation \_\_\_\_\_ All Sizes (EPA) \_\_\_\_\_  
EPA Level I 3:1 V >0.5µm Length A  
EPA Level II 5:1 V >5µm Length \_\_\_\_\_  
AHERA Rules  PCM Range\* \_\_\_\_\_  
NIOSH 7402 (PCM Range) \_\_\_\_\_  
↳ >0.25µm width, >5.0 µm Length

ANALYTICAL SENSITIVITY 95% CONFIDENCE LEVELS  
(Structures/cc) Lower Upper Limit

Sample Identification X030338 Volume (L) 1200 Structures/mm<sup>2</sup> ND Structures/cc ND Limit 0.005

*Handwritten initials and number*  
263

"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.)  
NIOSH 7402, Revision #1: 5/12/88 (NIOSH 7400 PCM equivalent range)

*Handwritten signature and date*  
P. STEINBERG  
12-22-03

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: 91582 Date Received: 12-18-03 Filter Type: MCE Filter Area: 385  
 Client: VAGLABS Date Analyzed: 12-18-03 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIREBLVD Date Sampled: 12-15-03 Project #: B 256 RM 13 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SNEY File Name: 91582VAGLABS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX030312	100	57	73	27955	1350.0	0.021	0.0020	0.0228	0.0004
SX030313	OVERLOADED				1350.0	NA	0.0020	0.0228	0.0004
SX030320	100	11	14	5395	1200.0	0.0045	0.0022	0.0257	0.0004
SX030321	100	6	8	2943	1200.0	0.0025	0.0022	0.0257	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  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S. AHMAD

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

Interlaboratory Sr is taken as 0.45 in Laboratory Sr is 0.3  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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*85-264*



**SUBMITTAL FORM** *Laboratory Services*

**91582**

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.  <3 HR.  WKND  OTHER:

CLIENT VA GLASS (1305) RELINQUISHED BY Zadoul  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218 TIME / DATE 12/15/03  
LOS ANGELES, CA 90025 RM 308 DATE OF SHIPMENT 12/16 CARRIER  
 TELEPHONE [REDACTED] CLIENT P.O. NO.  
 CONTACT BEN SPIVEY CLIENT JOB/PROJECT ID NO(S) B256 Room 13  
 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 12/15/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME Kevin Kellish  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No. CLIENT SAMPLE NO. DESCRIPTION / LOCATION ANALYSIS

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION / LOCATION	ANALYSIS	TIME
<u>91582-12</u>	<u>SX030312</u>	<u>Background</u>	<u>PCM</u>	<u>1350</u>
<u>13</u>	<u>SX030313</u>	<u>Background</u>	<u>PCM</u>	<u>1350</u>
<u>20</u>	<u>SX030320</u>	<u>Area / North Hall Door</u>	<u>PCM</u>	<u>1200</u>
<u>21</u>	<u>SX030321</u>	<u>Area / West Door</u>	<u>PCM</u>	<u>1200</u>

(SF 500)

Laboratory No. 91582 Received By [Signature] Time 10<sup>30</sup>  
 Date of Package Delivery 12-18-03 Shipping Bill Required: 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 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 12-18-03 Misc. Info 85-265  
 Disposition of Samples EMS LAB

**NIOSH FIBER COUNT (METHOD 400, 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:** 91607      **Date Received:** 12-19-03      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 12-19-03      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 12-18-03      **Project #:** 12/1803      **Filter Size:** 75MM  
 LOS ANGELES, CA 90073      **Analyst:** B SPIVEY      **File Name:** 91607VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.µm	Fiber/Fiber Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX030328	100	10.5	13	5150	0.0036	0.0019	0.0214	0.0003
SX030329	100	2	3	981	0.0007	0.0019	0.0214	0.0003
SX030330	100	31	39	15204	0.011	0.0019	0.0214	0.0003
SX030331	100	46.5	59	22806	0.0158	0.0019	0.0214	0.0003

LOD = LIMIT OF DETECTION (7 FIBERS/Sq.µm)      ANL.SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)

LOQ = LIMIT OF QUANTITATION (80 FIBERS/Sq.µm)      N.A. = NOT AVAILABLE      N.D. = NONE DETECTED

*Carl Bergman*  
 Signature of Carl Bergman

AIHA Registered Asbestos Analyst  
 LD. 7795      **CARL BERGMAN**  
 LD. 2033      **JEFF WAN**  
 LD. 3276      **S. AHMAD**

*89-260*  
 Handwritten number

B.M. Kolk, Laboratory Director

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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# SUBMITTAL FORM *Laboratory Services*

# 91607

1 1

TURNAROUND TIME: STD  38 HR.  24 HR.  10 HR.  WKND  OTHER

PREPARED BY Zaidowl TIME / DATE 12/18/03

CLIENT VA-GLABS (1306) DATE OF SHIPMENT 12/18 CARRIER

ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO.

LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). 12/18/03

TELEPHONE 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 12/18/03

SAMPLE PRESERVATIVES NO HOLDING TIMES None

NO. OF SAMPLES SENT 2 SAMPLER'S NAME Kevin Kelley

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS
91607-28	SX030328	Area Sample	SW Extr	PCM 1440
29	SX030329	North Hall	Decor Area	PCM 1440
30	SX030330	SW Extr	Area Sample	PCM 1440
31	SX030331	North Hall	Decor Area	PCM 1440

FOR USE ONLY (SE 5/00)

## 91607

Laboratory No. 91607 Received By [Signature] Time 7:30

Date of Package Delivery 12-19-03 Shipping Method  YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal

No. of Samples 4 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 12-19-03 Misc. Info EMLS LAB

Disposition of Samples

# AIR SAMPLING DATA

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

NAME OF EMPLOYEE [Redacted]	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: December 16, 2003  
 Project: Removal of 12"x12" VAT & Mastic.  
Wet Method Removal under HEPA Vacuum & exhaust, and Containment  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 500 Room: 1406 Floor: 1<sup>st</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 12/17/03	SAMPLE 04	SAMPLE 05	SAMPLE 06
a. SAMPLE TYPE/MEDIA	BG/PCM	Area/PCM	CL/TEM			
b. SAMPLE SUBMISSION NO.	SX030317	SX030318	SX030319			
c. TIME ON	9:30	13:00	9:55			
d. TIME OFF	11:35	16:10	11:55			
e. TOTAL TIME (in minutes)	120	190	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10			
g. VOLUME (in liters)	1200	1900	1200			

6. RESULTS (For Laboratory Use)

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

a. PERCENTAGE	b. Date: 10-31-03
---------------	-------------------

SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT
Asbestos	F/CC	0.0108	F/CC	0.0072	S/mn <sup>2</sup>	ND				

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

Phase Contrast Microscopy (PCM)  
 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) CALIBRATION DATE 12/16/03	10b. FLOW RATE CALCULATIONS 15 l/min	10c. (POST) CALIBRATION DATE 12/16/03	10d. FLOW RATE CALCULATIONS 15 l/min
---	---	--	---

11 NAME & JOB TITLE (Person Performing Sampling) James Spencer	DATE 12/16/03	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

*85-268*

Date: December 16, 2003

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

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

Abatement Dates: 12/16/03

Location: VA Hospital Bldg. 500. Room 1406

Abatement Company: Unlimited Environment Phone Number: [REDACTED]

Abatement Supervisor: Rojelio Romano

Type of ACM: 12"x12" VAT & Mastic

Quantity of ACM: 200 ft<sup>2</sup>

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

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: SX030317 on 12/16/03

*85-269*

3. Perimeter: \_\_\_\_\_
4. Inside Work Area: SX030318 on 12/16/03
5. Clearance: SX030318 on 12/17/03
6. VAH 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 \_\_\_ 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: 1 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. 500 Floor 1st Rooms 1406 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 12/17/03 are as follows:
- |                  |                   |                   |                                      |
|------------------|-------------------|-------------------|--------------------------------------|
| Bldg. <u>500</u> | Floor: <u>1st</u> | Room: <u>1406</u> | <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

*Handwritten signature and number: JS-270*

# 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:** 91576      **Date Received:** 12-18-03      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 12-18-03      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 12/16, 17/03      **Project #:** B 500 RM 1406      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 91576VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX030317	100	26.5	34	12997	1200.0	0.0108	0.0022	0.0257	0.0004
SX030318	100	28	36	13732	1900.0	0.0072	0.0014	0.0162	0.0003

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**

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

Interlaboratory Sr is taken as 0.45. Inralaboratory 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**

85-271

**SUBMITTAL FORM** / Laboratory Services

91576

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

RECEIVED BY Zadawl  
 TIME / DATE 12/17/03  
 DATE OF SHIPMENT 12/17 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B.500 Room 1406  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA-GLASS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 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 12/16/03 & 12/17/03  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME James Spivey  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

SIGNATURE James Spivey PRINTED \_\_\_\_\_

(FOR EMS ONLY)		VOLUME			
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	TIME WEIGHT (APPLICABLE)
91576-17	SX030317	Background	Inside	PCM	1200
↓ 18	SX030318	Area / Decor		PCM	1900
91576-19	SX030319	Clearance	Inside	TEM	1200
<p>Note: TEM Results needed by 11 AM on 12/18/03</p>					

ST-5100

Laboratory No. 91576 Received By [Signature] Time 10<sup>00</sup>  
 Date of Package Delivery 12-18-03 Shipping Bill Retained YES  NONE   
 Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal \_\_\_\_\_  
 (E: 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 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 12-10-03 Misc. Info. 915-272  
 Disposition of Samples \_\_\_\_\_



DATE: December 18, 2003  
CLIENT: VA Hospital/West Los Angeles (H 130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO 691-C30452  
B500 Room 1406  
DATE COLLECTED: 12/17/03 by James Spencer  
REPORT NO. 91576.1  
DATE RECEIVED: 12/18/03 at 1000  
DATE ANALYZED: 12/18/03  
ACCREDITED: National Institute of Standards and Technology through NVLAP 101218  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

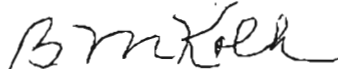
The sample was identified as: SX030319

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.

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 these 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.

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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.

85-273

**SUBMITTAL FORM/Laboratory Services**

91576.

TURNAROUND TIME: STD  48 HR.  24 HR.  1 HR.  WKND  OTHER: \_\_\_\_\_

RELINQUISHED BY: Radner

CLIENT: VA-GLARS (130b)  
 ADDRESS: 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE: BEN SPIVEY  
 CONTACT: \_\_\_\_\_

TIME / DATE: 12/17/03  
 DATE OF SHIPMENT: 12/17 CARRIER: \_\_\_\_\_  
 CLIENT P.O. NO.: \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S): B500 Room 1406  
 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: 12/16/03 & 12/17/03  
 SAMPLE PRESERVATIVES: No HOLDING TIMES: None  
 NO. OF SAMPLES SENT: 3 SAMPLER'S NAME: James Spivey  
 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
91576-17	SX030317 Background Inside	PCM 1200
↓ 18	SX030318 Area / Decon	PCM 1900
91576-19	SX030319 Clearance Inside	TEM 1200
Note: TEM Results needed by 11 AM on 12/18/03		

Laboratory No. 91576. Received By: [Signature] Time: 10:00  
 Date of Package Delivery: 12-18-03 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: 2+1 Chain-of-Custody Signature: [Signature]  
 Date of Acceptance into Sample Band: 12-18-03 Misc. Info: \_\_\_\_\_  
 Disposition of Samples: File 10/11

(SF 5/00)

FOR EMS ONLY

**RESULTS OF AIR FILTRER ANALYSIS by TEM for Asbestos Structures**

▶ EMS Laboratory No. 91576.1 ▶ Date Received 12/18/03 ▶ Verbal Results  
 ▶ Client V.A.G.L.A.H.S. ▶ Date Analyzed 12/18/03 ▶ 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"/> 5:1 <input checked="" type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> 0.5 µm Length <input type="checkbox"/>
<b>LEVEL I</b> <input type="checkbox"/>		0.5 µm Length <input checked="" type="checkbox"/> PCM Range <input type="checkbox"/>
<b>LEVEL II</b> <input type="checkbox"/>		1 µm Length <input type="checkbox"/> 0.25 µm Width <input type="checkbox"/>
		0.5 µm Length <input type="checkbox"/>

Sample Identifier	Volume (L)	Mass (mg)	Structures/mm	Structure cc	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

SX 030319	1200	-	N.D.	N.D.	0.005	0	0.02
-----------	------	---	------	------	-------	---	------

TEM - 3A (12-001)  
 275

- "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: 91576.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 030319  
 RECEIVED: 12/18/03 ANALYZED: 12/18/03  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0672  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0096  
 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 DEBRIS

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

*85-276*

# TEM ANALYSIS

EMS Lab No. 91576.1

Client VA GLAFC

Sample No. SX030319

### METHOD OF ANALYSIS

EPA Yamate Level I   
 Level II   
 Level III   
 AFERA     
 ASPECT RATIO 3:1  5:1

### LENGTHS

All Sizes (EPA)   
 (µm) : > 0.5µ   
 (µm) : > 5.0µ   
 (µm) : > 10.0µ   
 PCM Range\*   
 \*60-25 µm width, >50 µm length

### TYPE OF SAMPLE

Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

### FILTER TYPE/AREA (mm<sup>2</sup>)

MCE/365   
 MCE/314   
 MCE/1017   
 Other

### PORE SIZE

0.45 µm   
 0.8 µm   
 1.1 µm   
 0.22 µm   
 Other

### PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 200 µl  
 Working Volume 10 µl  
 Weight 100.00 µg  
 Ashed Area 10 µm<sup>2</sup>

Date 12-18-03  
 Prepared By [Signature]

G.D. Area (mm<sup>2</sup>) 0.0  
 No. of G.D. to Analyze 7

### RECEIVING

EPA Yamate Level I   
 Level II   
 Level III   
 AFERA     
 ASPECT RATIO 3:1  5:1

### LENGTHS

All Sizes (EPA)   
 (µm) : > 0.5µ   
 (µm) : > 5.0µ   
 (µm) : > 10.0µ   
 PCM Range\*   
 \*60-25 µm width, >50 µm length

### TYPE OF SAMPLE

Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac

### FILTER TYPE/AREA (mm<sup>2</sup>)

MCE/365   
 MCE/314   
 MCE/1017   
 Other

### PORE SIZE

0.45 µm   
 0.8 µm   
 1.1 µm   
 0.22 µm   
 Other

### PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 200 µl  
 Working Volume 10 µl  
 Weight 100.00 µg  
 Ashed Area 10 µm<sup>2</sup>

Date 12-18-03  
 Prepared By [Signature]

G.D. Area (mm<sup>2</sup>) 0.0  
 No. of G.D. 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 1000X  
 Camera Constant 100.00  
 Accelerating Voltage 10 kV  
 Beam Current µA

**A**  
 Date 12-18-03  
 Analyst S.A.

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation			EDS Analysis					Comments					
			Width	Length	Thickness	Chrysotile	Amphibole	Amblygonus	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe	Ti		

Grid NSD  
EP3 NSD  
EP4 NSD  
EP5 NSD

16 Lines

### OBSERVATIONS:

Clean   
 Debris   
 Gypsum   
 Condition of the Grid:  Good  Very Light  Light  Scrapy

Very Heavy   
 Heavy   
 Moderate   
 Moderate Filter   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded

85-277



# ASBESTOS & LEAD PROJECTS

## SECOND QUARTER

BLDG	ROOM/AREA	DATE
304	ROOF - HVAC	01/07/04
114	HALLWAY -P.I.	01/09/04
208	RM 118	01/23/04
265	EXT. BOILER	01/23/04
500	RM 1281E	01/29/04
211	INT. OFFICES	02/05/04
257	FM 128	02/09/04
211	EXT. STEAM LINE	02/11/04
211	EXT. STEAM LINE	02/11/04
258	RM 220	02/23/04
FQ90A	MASTER BDRM., 2 <sup>ND</sup> FLR.	02/25/04
FQ90A	BSMT.	02/26/04
FQ 90A	UPPER FRONT BEDROOM	03/01/04
FQ 90A	MASTER BEDROOM, HALL	03/01/04
M.H. 65	STEAMLIN	03/22/04
M.H. 64	STEAMLIN	03/23/04

QB-279

# ASBESTOS & LEAD PROJECTS

## SECOND QUARTER (PAGE 2)

BLDG	ROOM/AREA	DATE
M.H. 62	STEAMLINE	03/24/04
M.H. 61	STEAMLINE	03/26/04
M.H. 60	STEAMLINE	03/29/04
206	BSMT., HALL	03/30/04
206	RM 18B	03/30/04
500	RM 5650	03/30/04

85-280



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>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:** 01-05-04, 01-06-04 & 01-07-04  
**Project:** Removal of Insulation (TSI) of Elbow  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 256, Room :16, Floor : Ground

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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	Back Ground / PCM	Area / PCM	Area / PCM	Area / PCM	Clearance / TEM
b. SAMPLE SUBMISSION NO.	SX040005	SX04006	SX04007	SX04008	SX04009
c. TIME ON	09:10	13:05	09:00	11:30	08:00
d. TIME OFF	11:10	15:15	11:10	13:30	10:00
e. TOTAL TIME (in minutes)	120	130	130	120	120
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10	10	10
g. VOLUME (in liters)	1200	1300	1300	1200	1200

### 8. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Counting T = Time Weighted Average					a. PERCENTAGE
					b. TYPE
	F/C	F/C	F/C	F/C	S/mm <sup>2</sup>
Asbestos (PCM)	0.0345	0.0378	0.0092	0.0035	
Asbestos (TEM)					N.D.

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

Phase Contrast Microscopy (PCM)  
 Transmission Electron Microscopy (TEM)

### 8. IH COMMENTS TO LABORATORY

PCM /TEM

a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER <b>NVLAP # 101218</b>
b. ADDRESS <b>117 West Bellevue Dr. Pasadena, CA91105</b>	PAT NUMBER

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

10a. (PRE) CALI-BRATION DATE <b>01-05-04 to 01-07-04</b>	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI-BRATION DATE <b>01-05-04 to 01-07-04</b>	10d. FLOW RATE CALCULATIONS 10 liter / min
NAME & JOB TITLE (Person Performing Sampling) <b>Kevin Kelly, SST 97-2293</b>		DATE <b>01-05-04 to 01-07-04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

*85-281*





# 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: 91863 Date Received: 1-8-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 1-8-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 1-5-04 Project #: B 256 RM 16 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 91863VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040005	100	84.5	108	41443	1200.0	0.0345	0.0022	0.0257	0.0004
SX040006	100	100.5	128	49290	1300.0	0.0379	0.0021	0.0237	0.0004
SX040007	100	24.5	31	12016	1300.0	0.0092	0.0021	0.0237	0.0004
SX040008	100	8.5	11	4169	1200.0	0.0035	0.0022	0.0257	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  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S-AHMAD

*Carl J. Bergman*  
 B.M. Kolk, Laboratory Director

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: 626-796-5282**

85-284

DATE: January 19, 2004  
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-C30452, B 256 Room 16  
DATE COLLECTED: 1/5/04 by Kevin Kelly  
REPORT NO: 91863  
DATE RECEIVED: 1/8/04 at 1010  
DATE ANALYZED: 1/8/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040009

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.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.



B. M. Kolk  
Laboratory Director

BMK/ah

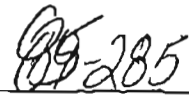
NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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.

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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 for Asbestos Structures

▶ EMS Laboratory No. 91863      ▶ Date Received 1/8/04      ▶ Verbal Results  
 ▶ Client V.A.G.L.A.H.S.      ▶ Date Analyzed 1/8/04      ▶ Fax Results  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <input type="checkbox"/>	3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>	AE Sizes (LPA) <input type="checkbox"/> 1.5 µm Length <input type="checkbox"/>
LEVEL I <input type="checkbox"/>		0.5 µm Length <input checked="" type="checkbox"/> PCM Range* <input type="checkbox"/>
LEVEL II <input type="checkbox"/>		1.0 µm Length <input type="checkbox"/> 25 µm Width <input type="checkbox"/>
		1.5 µm Length <input type="checkbox"/>

Sample Identification	Volume (l)	Mass (mg/m)	Structure	Analytical Sensitivity	95% CONFIDENCE LEVELS	
					Lower Limit	Upper Limit

SX 040009	1200	N.D.	N.D.	0.005	0	0.02
-----------	------	------	------	-------	---	------

TEM - 3A (12-00)  
 286

- "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 (Yarnate, et al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments: \_\_\_\_\_

# SUBMITTAL FORM *Laboratory Services*

PAGE 1 OF 1

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

RELINQUISHED BY Zairul  
 TIME / DATE 1/6/03  
 DATE OF SHIPMENT 1/7 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B 256 Room 16  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 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 1/5/04 to  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT 4+1 SAMPLER'S NAME Kevin Kelly  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO.

DESCRIPTION LOCATION ANALYSIS

VOLUME  
TIME  
RENT  
FEE

<u>91863-1-5</u>	<u>SX040005</u>	<u>Inside Background</u>	<u>PCM</u>	<u>1200</u>
<u>6</u>	<u>SX040006</u>	<u>Outside Background</u>	<u>PCM</u>	<u>1300</u>
<u>7</u>	<u>SX040007</u>	<u>Decon / Entrance Hall</u>	<u>PCM</u>	<u>1300</u>
<u>8</u>	<u>SX040008</u>	<u>Decon / Entrance Hall</u>	<u>PCM</u>	<u>1200</u>
<u>91863-9</u>	<u>SX040009</u>	<u>Inside Clearance</u>	<u>TEM</u>	<u>1200</u>

Note: TEM Results needed on Friday 1/9/04

(SF 5/00)

FOR EMILY

Laboratory No. 91863 Received By [Signature] Time 10:10  
 Date of Package Delivery 1-8-04 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 4+1 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 1-8-04 Misc. Info. 85-287  
 Disposition of Samples \_\_\_\_\_

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO <b>VISN #22</b>
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### 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:** 01-23-04  
**Project:** EXT. STM. TNK. & P.I.  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 265 Room: EXTR Floor: N/A

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 1	SAMPLE	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Clearance/PCM				
b. SAMPLE SUBMISSION NO.	SX040118				
c. TIME ON	11:00				
d. TIME OFF	13:00				
e. TOTAL TIME (In minutes)	120				
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	10				
g. VOLUME (in liters)	1200				

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Celling T = Time Weighted Average						a. PERCENTAGE			
						b. TYPE			
SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	DATE
Asbestos	F/cc	0.0055							01/27/04

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

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>01/23/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>01/23/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE <b>01/23/04</b>	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

*85-288*



Date: 01/23/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 01/23/04

Location: Bldg-265, EXT. STM. TNK. & P.I.

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: Tank & Pipe Insulation

Quantity of ACM: 60 Sq. Feet

Abatement Type & Method(s): Wet, Scrape-up Inside Containment

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 N/A No \_\_\_\_\_ CAL/OSHA Yes N/A  
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    Worker's Name/SS #:

2. Pre-Tests: \_\_\_\_\_

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

85-289

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040118
- 6. VAUH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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      No
- B. Containment: Yes X No      Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No      No. Chambers: 1 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: Hudson Sprayer
- 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-P
- 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. 265, Floor N/A, Rooms EXT. 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 01/23/04 are as follows:

Bldg. <u>265</u>	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u> Structures/mm <sup>2</sup>
	Floor: <u>EXT.</u>	Room: <u>    </u>	<u>0.0055</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

# 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: 92129 Date Received: 1-27-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 1-27-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 1-23-04 Project #: B 265 B 377 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 92129VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040118	100	13.5	17	6621	1200.0	0.0055	0.0022	0.0257	0.0004
SX040119	100	1	1	490	1200.0	0.0004	0.0022	0.0257	0.0004
SX040120	100	3	4	1471	1200.0	0.0012	0.0022	0.0257	0.0004
SX040121	100	3	4	1471	1200.0	0.0012	0.0022	0.0257	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 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

Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282

85-291



Date: 01.23.04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: KEVIN KELLY

Abatement Dates: 01.23

Location: B265 (NEC-EXTENSION)

Abatement Company: UNLIMITED ENVIRONMENTAL Phone Number: \_\_\_\_\_

Abatement Supervisor: MARCELO FAJARDO

Type of ACM: TSI EXPANSION TANK COVER AND EXPOSED PIPE INSULATION

Quantity of ACM: 80 SF

Abatement Type & Method(s): WET / CONTAINMENT

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: 01.23.04

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: N/A (VACANT) 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: Yes  No \_\_\_\_\_ Name: \_\_\_\_\_
- 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: \_\_\_\_\_

01-293

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION		2. STATION NO.	3. REGION NO.
<b>4. EMPLOYEE INFORMATION</b>			
a. 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).			
01.23.04		KEVIN KELLY	
B265 NEC, EXTENSION		SX040118 - EXT. AREA SAMPLE	
EMERGENCY PREPARATION + REMOVAL TSI EXPANSION		JULY 26 ADAPTATION	
TANK INSULATION, TSI PIPE + ELBOWS TOTAL @ 80 FT		AND CLEARANCE	
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 <u>SX040118</u>	SAMPLE _____	SAMPLE _____	SAMPLE _____	SAMPLE _____
a. SAMPLE TYPE/MEDIA	<u>AREA / CLEARANCE</u>				
b. SAMPLE SUBMISSION NO.					
c. TIME ON	<u>11:00</u>				
d. TIME OFF	<u>13:00</u>				
e. TOTAL TIME (In minutes)	<u>120</u>				
f. FLOW RATE <input type="checkbox"/> L/min <input type="checkbox"/> cfm	<u>10 LPM</u>				
g. VOLUME (In liters)	<u>1200 LPM</u>				

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

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)	
8. I.H. COMMENTS TO LABORATORY	
9a. ANALYTICAL LABORATORY NAME	9c. AIHA ACCREDITATION NUMBER
9b. ADDRESS	9d. PAT NUMBER

EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
10a. (PRE) CALIBRATION DATE	10b. FLOW RATE CALCULATIONS	10c. (POST) CALIBRATION DATE	10d. FLOW RATE CALCULATIONS

25-294

# NIOSH FIBER COUNT (METHOD 400, 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: 92129 Date Received: 1-27-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 1-27-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 1-23-04 Project #: B 265 B 377 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 92129VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL SENT
SX040118	100	13.5	17	6621	1200.0	0.0055	0.0022	0.0257	0.0004
SX040119	100	1	1	490	1200.0	0.0004	0.0022	0.0257	0.0004
SX040120	100	3	4	1471	1200.0	0.0012	0.0022	0.0257	0.0004
SX040121	100	3	4	1471	1200.0	0.0012	0.0022	0.0257	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  
 I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S. AJIMAU



B.M. Kolk, Laboratory Director

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# SUBMITTAL FORM/Laboratory Services

PAGE 1 OF 1

**92129**

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

RELINQUISHED BY KELLY / ZANJUL

TIME / DATE 01.23.04

DATE OF SHIPMENT 01.26.04 CARRIER \_\_\_\_\_

CLIENT VA-GLAHS (1302) CLIENT P.O. NO. \_\_\_\_\_

ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT JOB/PROJECT ID NO(S) \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308

TELEPHONE \_\_\_\_\_ B 265 EXT CLEAN / B 337 BACK

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 01.23.04

SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_

NO. OF SAMPLES SENT 4 SAMPLER'S NAME [Signature] K KELLY

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

(FOR EMS ONLY)		CLIENT SAMPLE NO. DESCRIPTION LOCATION ANALYSIS			VOLUME TIME WEIGHT
EMS Sample No.					
<u>92129-18</u>	<u>SX040118</u>	<u>BLDG 265 EXT CLEAN</u>	<u>PCM</u>	<u>1200 L</u>	
<u>19</u>	<u>SX040119</u>	<u>B 337 BKG. BSMT</u>	<u>PCM</u>	<u>1200 L</u>	
<u>20</u>	<u>SX040120</u>	<u>B 337 BKG. LEVEL 1 SOUTH</u>	<u>PCM</u>	<u>1200 L</u>	
<u>21</u>	<u>SX040121</u>	<u>B 337 BKG. LEVEL 1 NORTH</u>	<u>PCM</u>	<u>1200 L</u>	

Laboratory No. 92129

Date of Package Delivery 1-27-04

Condition of Package on Receipt us

No. of Samples 4

Date of Acceptance into Sample Bank 1-27-04

Disposition of Samples OKS 6173

Received By [Signature] Time 9:30

Shipping Bill Required: YES  NONE

Condition of Custody Seal in

Chain-of-Custody Signature [Signature]

Misc. Info. 85-296

FOR ONLY (SF 5100)



# 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:** 01-23-04  
**Project:** Pipe Insulations (TSI-4") Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 208 Room: 118 Floor: 1<sup>st</sup> 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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE
a. SAMPLE TYPE/MEDIA	<b>BKG/TEM</b>	<b>IWA/PCM</b>	<b>Clearance/TEM</b>	<b>Clearance/TEM</b>	
b. SAMPLE SUBMISSION NO.	<b>SX040115</b>	<b>SX040116</b>	<b>SX040117</b>	<b>SX040122</b>	
c. TIME ON	<b>12:30</b>	<b>13:55</b>	<b>16:00</b>	<b>09:30</b>	
d. TIME OFF	<b>13:55</b>	<b>15:05</b>	<b>17:15</b>	<b>11:06</b>	
e. TOTAL TIME (in minutes)	<b>85</b>	<b>70</b>	<b>75</b>	<b>96</b>	
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	<b>12</b>	<b>15</b>	<b>15</b>	<b>15</b>	
g. VOLUME (in liters)	<b>1020</b>	<b>1050</b>	<b>1125</b>	<b>1440</b>	

**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	RESUL T	UNIT	a. PERCENTAGE		DATE	
						RESULT	UNIT		
Asbestos	S/m <sup>2</sup>	N.D.	F/cc	0.2081	S/m <sup>2</sup>	260	S/m <sup>2</sup>	N.D.	01/26/04

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

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>01/23/04</b>	10b. FLOW RATE CALCULATIONS <b>12/15 liter/minute</b>	10c. (POST) CALI-BRATION DATE <b>01/26/04</b>	10d. FLOW RATE CALCULATIONS <b>12/15 liter/minute</b>
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Ted Davis, CAC 94-1378</b>	DATE <b>01/23/04</b>	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..
--	-------------------------	--

*Handwritten signature and number 297*

Date: 01/23/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis, CAC-94-1378

Abatement Dates: 01/23/04

Location: Bldg-208, RM-118

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Fajardo Morisio

Type of ACM: Pipe Elbow Insulations (TSI-4")

Quantity of ACM: 10 Liner Feet

Abatement Type & Method(s): Removal, Wet Glove Bag

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

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 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: SX040115 - TEM
- 3. Perimeter:

*95-298*

4. Inside Work Area: SX040116 - PCM
5. Clearance: SX040117, SX040122 - TEM
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec Hoods & Boots: Yes      No X
- 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: Yes X No      Thickness of Polyethylene: 10mm
- C. Proper Decon: Yes X No      No. Chambers: NA 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: NA Yes      No
- F. Adeq. Neg. Pressure Diff. in Containment HEPA VAC Yes X No
- G. Amended Water Used: Yes X No      How Applied: Hudson Sprayer
- 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-P
- 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 1st, 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 01/26/04 are as follows:

Bldg. <u>208</u>	Floor: <u>1st</u>	Room: <u>118 Pre</u>	<u>ND</u> Structures/mm <sup>2</sup>
	Floor: <u>1st</u>	Room: <u>118 Post</u>	<u>ND</u> Structures/mm <sup>2</sup>
	Floor: <u>1st</u>	Room: <u>118</u>	<u>0.2061</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 : Ted Davis, CAC 94-1379

*85-299*

DATE: January 27, 2004  
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-C30452, Bldg. 208, Rm. 118  
DATE COLLECTED: 1/23/04 at 1230-1700 by T.Davis  
REPORT NO: 92112  
DATE RECEIVED: 1/26/04 at 0915  
DATE ANALYZED: 1/26/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: SX040115, SX040117

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

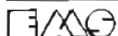
**NOTE:** The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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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 *bestos Structures*

▶ EMS Laboratory No. 92112      ▶ Date Received 1/26/04      ▶ Verbal Results  
 ▶ Client V.A.G.C.A.H.S.      ▶ Date Analyzed 1/26/04      ▶ 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"/> ≥5 μm Length <input type="checkbox"/>
LEVEL I <input type="checkbox"/>	5:1 <input checked="" type="checkbox"/>	≥0.5 μm Length <input checked="" type="checkbox"/> PCM Range* <input type="checkbox"/>
LEVEL II <input type="checkbox"/>		≥1 μm Length <input type="checkbox"/> * (≥ 25 μm Width, ≥5.0 μm Length)

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

SX 040115	1020	N.D.	N.D.	0.005	0	0.02
SX 040117	1125	260	0.09	0.005	0.05	0.1

  
 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**

V.A.G.L.A.H.S.  
 EVIDENCE NO: 92112  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1020 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040115  
 RECEIVED: 1/26/04 ANALYZED: 1/26/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.076  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.	

COMMENTS: MODERATE DEBRIS

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

*85-302*

# TEM-BESTOS ANALYSIS

EMS Lab No. 926117

Client VIA-GEARLS

Sample No. SK040115

## RECEIVING

### METHOD OF ANALYSIS

EPA Yamate Level I

Level II

Level III

AHERA

ASPECT RATIO 3:1  5:1

### LENGTHS

All Sizes (EPA)

( $\mu\text{m}$ ) :  $\geq 0.5$

( $\mu\text{m}$ ) :  $> 5.0$

( $\mu\text{m}$ ) :  $> 10.0$

PCMA Range\*

\*10-25  $\mu\text{m}$  width, 5-10  $\mu\text{m}$  length

### TYPE/AREA

MCE/683

MCE/614

MCE/1017

Other

Other

PORE SIZE

0.45  $\mu\text{m}$

0.6  $\mu\text{m}$

0.1  $\mu\text{m}$

0.22  $\mu\text{m}$

Other

### TYPE OF SAMPLE

Air

Soil

Bulk

Water

Wipe

Other

Dust/Microvac

G.O. Area (mm) 0.0

No. of G.O. to Analyze 0

## ANALYSIS

DIRECT PREP

INDIRECT PREP

Volume 1070 liters

Working Volume 207 ml

Weight 10 grams

Ashed Area 10 %

Date 1-26-04

Prepared By STR

Grid Address 1000KV

Screen Magnification 2000

Current Constant 20

Accelerating Voltage 1000KV

Beam Current 10  $\mu\text{A}$

# A

Analyt Radle Date 1-26-04

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
G1-0	NA	NA														
G1-3	NA	NA														
G1-3	NA	NA														
G1-1	NA	NA														

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

*Handwritten signature and number 303*





TEM ASBESTOS AIR REPORT

: V.A.G.L.A.H.S.  
 EMS NO: 92112  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1125 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040117  
 RECEIVED: 1/26/04 ANALYZED: 1/26/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.076  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	11 .....	0.05 /cc
Fiber Length: Range(um) .....	0.8 - 4.9	MEAN 1.9 um
Fiber Diameter: Range(um) .....	0.05 - 0.1	MEAN 0.06 um
Aspect Ratio: Range .....	15 - 50	MEAN 31
Fibers <5um/ Fibers >=5um .....	11 / N.D.	0.05 / 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 .....	3 .....	0.01 /cc
Total Number of Asbestos Cluster Clumps .....	N.D. ....	N.D. /cc
Total Number of Asbestos Matrix/Debris .....	6 .....	0.03 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>20</b> .....	<b>0.09 /cc</b>
Chrysotile .....	20 .....	0.09 /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> .....	<b>14</b> .....	<b>0.06 /cc</b>
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>20</b> .....	<b>0.09 /cc</b>
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0.05
Upper 95% Confidence Limit(Structures/cc) .....		0.1
<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>260</b> .....	

COMMENTS: MODERATE DEBRIS

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

85305

# TEM BESTOS ANALYSIS

EMS Lab No. 922112  
 Client VA-GA-15  
 Sample No. SA04017

**METHOD OF ANALYSIS**  
 EPA Yemate 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, > 0.9 µm length)

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

**FILTER TYPE/AREA**  
 MCE/300   
 MCE/314   
 MCE/1017   
 Other

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

G.O. Area (mm) 0.0  
 No. of G.O. to Analyze 095

## PREP

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 1125 liters  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

Date 12-26-04  
 Prepared By cd

## ANALYSIS

Grid Address A  
 Screen Magnification 19,000  
 Camera Constant 27  
 Accelerating Voltage 10 kV  
 Beam Current \_\_\_\_\_ µA

Analyst Kantha Date 1-26-04

## 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
13-6	MP	MP	15	290		✓											KFD
14-6	MP	MP	5	150		✓											ERJ
15-12	MP	MP	1	50		✓											ERJ
15-13	MP	MP	1	50		✓											ERJ
15-4	MP	MP	1	22		✓											ERJ
15-5	MP	MP	3	110		✓											ERJ
15-6	MP	MP	1	35		✓											ERJ
15-7	MP	MP	2	18		✓											ERJ
15-8	MP	MP	1	15		✓											ERJ
15-10	MP	MP	15	20		✓											ERJ
15-16	MP	MP	60	115		✓											ERJ
15-12	MP	MP	1	15		✓											ERJ

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

85-306





# TEM ASBESTOS ANALYSIS

EMS Lab No. 022112

Client VEGGLATS

Sample No. 5040117

**RECEIVING**

## ANALYSIS

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 1000x H600B - Serial No. 542-05-06   
 Camera Constant 100 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu$ A

Analyst Chark Date 1-26-4

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysotile	Amphibole	Anitignous	Non Asbestos	No Pattern	Ala	Mg	Si	Ca		Fe
051	1	MD	1	46	1	✓										
051	2	MD	2	96	1	✓										
051	3	MD	130	330	1	✓										
051	4	MD	1	20	1	✓										
051	5	MD	220	230	1	✓										
051	6	MD	1	20	1	✓										
051	7	MD	1	25	1	✓										

15 Lines

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

05-309

# 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:** 92112.1      **Date Received:** 1-26-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 1-26-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 1-23-04      **Project #:** BLDG 208 RM 118      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 921121VACLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040116	23	101.5	562	216436	0.2061	0.0026	0.0293	0.0005

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**

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

Interlaboratory Sr is taken as 0.45 (Inralaboratory 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**

85-310

**SUBMITTAL FORM/Laboratory Services**

**92112.1**

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.  8 HR.  WKND  OTHER: KUSH (MAY 12)

RELINQUISHED BY T. DAVIS

TIME / DATE 6:00 PM / 1-23

CLIENT VA-GLAHS (130b) DATE OF SHIPMENT 1-23 CARRIER Fed Ex

ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO. \_\_\_\_\_

LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). \_\_\_\_\_

TELEPHONE \_\_\_\_\_ Bldg 208, Rm 118

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 info transmitted verbal or fax results.)

DATE/TIME OF SAMPLE COLLECTION 1-23 / 12:30 - 1700

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

NO. OF SAMPLES SENT 3 SAMPLER'S NAME [Signature] PRINTED T. DAVIS

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER [Signature]

(FOR EMS ONLY) EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	ADDITIONAL TIME WEIGHT EQUIV. INFO.
<u>92112-15</u>	<u>SX040115</u>	<u>Bldg 208, Rm 118, PEROX</u>	<u>1020 L</u>	<u>TEM</u>	
<u>92112.1-16</u>	<u>SX040116</u>	<u>Bldg 208, Rm 118, WORK AREA</u>	<u>S10506</u>	<u>TEM</u>	<u>[Signature]</u>
<u>17</u>	<u>SX04-0117</u>	<u>Bldg 208, Rm 118, AREA CLEARANCE</u>	<u>1125L</u>	<u>TEM</u>	<u>Clearance</u>
<p>NOTE: TWO TEM'S KUSH!! RESULTS MONDAY P.M. TO DR. "Z"</p>					

(SF 5/00)

Laboratory No. 92112.1 Received By [Signature] Time 9:15

Date of Package Delivery 01-26-04 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 1 + 2 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 01-26-04 Misc. Info. [Signature]

Disposition of Samples EMS LAB

DATE: January 27, 2004

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-C30452  
Bldg. 208, Rm. 118

DATE COLLECTED: 1/26/04 at 0930 by T. Davis

REPORT NO: 92128

DATE RECEIVED: 1/27/04 at 0930

DATE ANALYZED: 1/27/04

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

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040122

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.

The test reports are enclosed.

Respectfully submitted,

EMS LABORATORIES, INC.

*B M Kolk*

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.

*85-312*





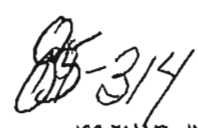
# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 92128      ▶ Date Received 1/27/04      ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.R.S.      ▶ Date Analyzed 1/27/04      ▶ 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"/> $\geq 5 \mu\text{m}$ Length <input type="checkbox"/>
LEVEL I <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"/>
LEVEL II <input type="checkbox"/>		$\geq 1 \mu\text{m}$ Length <input type="checkbox"/> $\geq 25 \mu\text{m}$ Width <input type="checkbox"/>
		$\geq 5.0 \mu\text{m}$ Length <input type="checkbox"/>

Sample Identification	Volume (L)	Mass (mg)	Structure Co.	Analytical Sensitivity	95% CONFIDENCE LEVELS	
					Lower Limit	Upper Limit

SX 04-0122	1440	-	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 (Yamatr, et. al.)
- PCM equivalent range by the method described in NIOSH 7402, Revision #1: 5/15/89.

Comments: \_\_\_\_\_

TEM ASBESTOS AIR REPORT

V.A.G.L.A.H.S.  
 EMS NO: 92128  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1440 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 04-0122  
 RECEIVED: 1/27/04 ANALYZED: 1/27/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.057  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.	

COMMENTS: LIGHT TO MODERATE DEBRIS

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

85-315



# TEM ANALYSIS

EMS Lab No. 92128  
 Client VAGALIT  
 Sample No. SX04-0122

RECEIVING

## ANALYSIS

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification 1920   
 Camera Constant 18.1   
 Accelerating Voltage 10 KV   
 Beam Current 10  $\mu$ A

Analyst SA Date 12/7/04

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Amfibions	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>P53 N5D</u>																	
<u>C64 N5D</u>																	
<u>C43 N5D</u>																	

16 Lines

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

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

88-317

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
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### 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:** 01/26/04 & 01/27/04  
**Project:** Floor Tile, Pipe insulation & Elbow, Duct insulation  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 337 Floor: 3rd, East Wing

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 (dt 01-26-04)	SAMPLE 2 (dt 01-27-04)	SAMPLE 3 (dt 01-27-04)
a. SAMPLE TYPE/MEDIA	Ambient / Exhaust	Ambient / Exhaust	Ambient / Exhaust
b. SAMPLE SUBMISSION NO.	SX040127	SX040128	SX040129
c. TIME ON	14:30	09:15	12:30
d. TIME OFF	16:30	14:20	14:30
e. TOTAL TIME (In minutes)	120	120	120
FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10
VOLUME (in liters)	1200	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
Unit	F/CC	F/CC	F/CC
Asbestos (PCM)	0.0012	0.0035	0.0008

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

Phase Contrast Microscopy (PCM)

### 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 01/26/04 & 01/27/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 01/26/04 & 01/27/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 01/26/04 & 01/27/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	-----------------------------	---

85-318

Date: 01/26/04 & 01/27/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 01/26/04 & 01/27/04

Location: Bldg. 337, East Wing, 3rd Floor

Abatement Company: Unlimited Environmental Inc. Phone Number: [REDACTED]

Abatement Supervisor: \_\_\_\_\_

Type of ACM: TSI, Floor Tile, Pipe Insulation & Duct Insulation

Quantity of ACM: \_\_\_\_\_

Abatement Type & Method(s): Wet / Glove bags & Scrape up Containment

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 \_\_\_\_\_ 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: N/A 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 X

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

D. VAMC - IH Monitoring:

1. Personal (VA): Yes \_\_\_\_\_ No \_\_\_\_\_

Worker's Name/SS #:

2. Pre-Tests: \_\_\_\_\_

3. Perimeter: SX040127, SX040128, SX040129

*85-319*

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

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face, North
- B. Coveralls: Yes, Tyvec 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: Yes X No     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 X No
- E. Neg. Air/HEPA Filtration Used: Yes     No X Licensed: Yes     No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes     No
- G. Amended Water Used: Yes X No     How Applied: Hudson Sprayer
- 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 6-32
- 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. 337 Floor 3rd East Wing 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 01/26/04 & 01/27/04 are as follows:
- |                  |                   |                        |                                       |
|------------------|-------------------|------------------------|---------------------------------------|
| Bldg. <u>337</u> | Floor: <u>   </u> | Room: <u>   </u>       | <u>   </u> Structures/mm <sup>2</sup> |
|                  | Floor: <u>   </u> | Room: <u>   </u>       | <u>   </u> Structures/mm <sup>2</sup> |
|                  | Floor: <u>3rd</u> | Room: <u>East Wing</u> | <u>0.0012</u> fibers/cc               |
|                  | Floor: <u>3rd</u> | Room: <u>East Wing</u> | <u>0.0035</u> fibers/cc               |
|                  | Floor: <u>3rd</u> | Room: <u>East Wing</u> | <u>0.0008</u> fibers/cc               |

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

Industrial Hygienist: Kevin Kelly, SST 97-2293

*95-320*



# 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: 92143 Date Received: 1-28-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 1-28-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE, BLDG 218 Date Sampled: 1/26,27/04 Project #: B 337 Filter Size: 25MM  
LOS ANGELES, CA 90025 Attention: B SPIVEY File Name: 92143VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL SENT.
SX040127	100	3	4	1471	1200.0	0.0012	0.0022	0.0257	0.0004
SX040128	100	8.5	11	4169	1200.0	0.0035	0.0022	0.0257	0.0004
SX040129	100	2	3	981	1200.0	0.0008	0.0022	0.0257	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 Carl F. [Signature] 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. Intra-laboratory 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**

*ES 321*

# SUBMITTAL FORM/Laboratory Services

# 92143

PAGE 1 OF 1

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

RELINQUISHED BY Kelly / JAVNUC  
TIME / DATE 01.27.04

CLIENT VA-GLAHS (130b)  
ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
TELEPHONE [REDACTED]  
CONTACT BEN SPIVEY

DATE OF SHIPMENT 01.27 CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) B337  
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 01.26 & 01.27  
SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
NO. OF SAMPLES SENT 3 SAMPLER'S NAME [Signature] L. K. KELLY  
SIGNATURE PRINTED  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

VOLUME  
TIME W/HELD  
AS PREPARED

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION-LOCATION-ANALYSIS	VOLUME TIME W/HELD AS PREPARED
92143-7	SX040127	BLDG 337 EXT. EXHAUST PCM	1200L
↓ 8	SX040128	BLDG 337 EXT. EXHAUST ↓	↓
↓ 9	SX040129	BLDG 337 EXT. EXHAUST ↓	↓
<i>[Large handwritten scribble]</i>			

(SF 5/00)

FOR E ONLY

Laboratory No. 92143 Received By [Signature] Time 9:30  
Date of Package Delivery 1-28-04 Shipping Bill Required: 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 Chain-of-Custody Signature \_\_\_\_\_  
Date of Acceptance into Sample Bank 1-28-04 Misc. Info. 89-322  
Disposition of Samples EMS USE

# 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>		b. SSN <b>N/A</b>	c. 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:** 01/30/04  
**Project:** Duct Insulation Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 337 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 1	SAMPLE 2	SAMPLE 3
a. SAMPLE TYPE/MEDIA	BSMT South		
b. SAMPLE SUBMISSION NO.	SX040135		
c. TIME ON	9:30		
d. TIME OFF	11:30		
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/m3 F = Fibers C = Ceiling T = Time Weighted Average		a. PERCENTAGE
Unit	F/CC	b. TYPE
Asbestos (PCM)	0.349	

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

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>01/30/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>01/30/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin Kelly, SST 97-2293</b>	DATE <b>01/30/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
--	-------------------------	---

*85-323*



- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: \_\_\_\_\_
- 6. VAIH Laboratory: EMS Laboratories, Pasadena

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face, North
- B. Coveralls: Yes, Tyvec 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: 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 \_\_\_\_\_ No X Licensed: Yes \_\_\_\_\_ No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_\_\_ No \_\_\_\_\_
- G. Amended Water Used: Yes X No \_\_\_\_\_ How Applied: Hudson Sprayer
- 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 6-32
- 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. 337 Basement 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 01/30/04 are as follows:

Bldg. <u>337</u>	Floor: _____	Room: _____	_____ 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: Kevin Kelly, SST 97-2293

*BB-325*

# 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:** 92237      **Date Received:** 2-03-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 2-10-04      **Mag:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 1-30-04      **Project #:** B 337 BASEMENT      **Filter Size:** 25MM  
LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 92237.VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040135	20	171	1089	419331	1200.0	0.349	0.0022	0.0257	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  
 I.D. 3276      S.AHMAD

*S. Ahmad*

B.M. Kolk, Laboratory Director

*BMK*

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  
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*324*



# 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>		b. SSN <b>N/A</b>	c. JOB TITLE
e. ADDRESS (Street, City, State & Zip Code) <b>N/A</b>			
d. PERSONAL PROTECTIVE EQUIPMENT USED	f. MANUFACTURER <b>N/A</b>	i. 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:** 02/02/04  
**Project:** ACM - Floor Tile & Mastic, Duct Insulation, Duct Removal, Pipe Insulation (12")  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 337 Basement & 1<sup>st</sup> Level Clearance

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 1	SAMPLE 2	SAMPLE 3
a. SAMPLE TYPE/MEDIA	BSMT South	1 <sup>st</sup> Level South	1 <sup>st</sup> Level North
b. SAMPLE SUBMISSION NO.	SX040143	SX040144	SX040145
c. TIME ON	9:35	12:20	12:25
d. TIME OFF	11:35	14:20	14:25
e. TOTAL TIME (In minutes)	120	120	120
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	10	10	10
VOLUME (in liters)	1200	1200	1200

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average			a. PERCENTAGE
			b. TYPE
Unit	F/CC	S/mm <sup>2</sup>	S/mm <sup>2</sup>
Asbestos (PCM)	0.0045		
Asbestos (TEM)		N.D.	N.D.

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

8. IH COMMENTS TO LABORATORY  
 TEM / 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>02/02/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>02/02/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling)  
**Kevin Kelly, SST 97-2293**

DATE  
**02/02/04**

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

*85-328*



Date: 02/02/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 02/02/04

Location: Bldg. 337, Basement & 1<sup>st</sup> Level

Abatement Company: Unlimited Environmental Inc. Phone Number: [REDACTED]

Abatement Supervisor :

Type of ACM: Duct Insulation, Duct Removal, Pipe Insulation

Quantity of ACM:

Abatement Type & Method(s): Glove bags & Scrape Up Containment

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 \_\_\_\_\_ 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: N/A 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 X
- C. Contractor's AIHA PAT Lab: \_\_\_\_\_
- D. VAMC - IH Monitoring:

1. Personal (VA): Yes \_\_\_\_\_ No \_\_\_\_\_

Worker's Name/SS #:

2. Pre-Tests: \_\_\_\_\_

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

88-329

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040144, SX040145
6. VAH Laboratory: EMS Laboratories, Pasadena

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face, North
- B. Coveralls: Yes, Tyvec 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: 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 \_\_\_\_\_ No X Licensed: Yes \_\_\_\_\_ No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_\_\_ No \_\_\_\_\_
- G. Amended Water Used: Yes X No \_\_\_\_\_ How Applied: Hudson Sprayer
- 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 6-32
- 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. 337 Basement & 1<sup>st</sup> Level 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 02/02/04 are as follows:

Bldg. <u>337</u>	Floor: _____	Room: <u>1<sup>st</sup> Level South</u>	<u>N.D.</u> Structures/mm <sup>2</sup>
	Floor: _____	Room: <u>1<sup>st</sup> Level North</u>	<u>N.D.</u> Structures/mm <sup>2</sup>
	Floor: _____	Room: <u>Basement</u>	<u>0.0045</u> 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: Kevin Kelly, SST 97-2293

*AS-330*

# 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: <u>92240</u>	Date Received: <u>2-03-04</u>	Filter Type: <u>MCE</u>	Filter Area: <u>385</u>
Client: <u>VAGLAHS</u>	Date Analyzed: <u>2-10-04</u>	Mag: <u>400x</u>	Field Area: <u>0.00785MM</u>
Address: <u>11301 WILSHIRE BLVD</u>	Date Sampled: <u>2-2-04</u>	Project #: <u>B 337 BASEMENT</u>	Filter Size: <u>25MM</u>
<u>LOS ANGELES, CA 90073</u>	Attention: <u>B SPIVEY</u>	File Name: <u>92240.VAGLAHS.AJR</u>	

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (L/L)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040143	100	11	14	5395	1200.0	0.0045	0.0022	0.0257	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  
I.D. 3276

*S. Ahmad*

S.AHMAD

*B.M. Kolk*

B.M. Kolk, Laboratory Director

Interlaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3  
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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**

*05-331*

DATE: February 4, 2004  
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-C30452  
B 337, 1st Level Clearance  
DATE COLLECTED: 2/2/04 by K.Kelly  
REPORT NO: 92239  
DATE RECEIVED: 2/3/04 at 1000  
DATE ANALYZED: 2/3/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

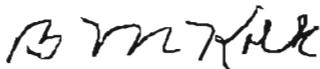
The samples were identified as: SX040144, SX040145

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

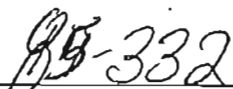
NOTE: The results of the analysis are based upon the samples submitted to the laboratory. No representation is made regarding the sampling area other than that implied by the analytical results for the immediate vicinity of the samples analyzed as calculated from the data presented with those samples.

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.

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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.







SUBMITTAL FORM / Laboratory Services

92239

TURNAROUND TIME: STD  48 HR.  72 HR.  15 DAY

RELINQUISHED BY KELLY / DANUL  
 TIME / DATE 02.02.04

CLIENT VA GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 0202 CARRIER FEDEX  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B337, 1<sup>ST</sup> LEVEL CLEANUP  
 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 02.02.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME [Signature] / KELLY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
EMS Sample No. <u>92239-4</u>	<u>SX040144</u>	<u>1<sup>ST</sup> LEVEL SOUTH CLEANUP</u>		<u>TEM</u>	<u>1200L</u>
<u>5</u>	<u>SX040145</u>	<u>1<sup>ST</sup> LEVEL NORTH CLEANUP</u>		<u>TEM</u>	<u>1200L</u>
<u>Results needed ASAP TEM CLEANUP</u>					

FOR E ONLY (SF 5/00)

92239

Laboratory No. \_\_\_\_\_ Received By [Signature] Time 10<sup>00</sup>  
 Date of Package Delivery 2-3-04 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt an 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 \_\_\_\_\_  
 Date of Acceptance into Sample Bank 2-3-04 Misc. Info. 04-335  
 Disposition of Samples FILE LAB

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 92239  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040144  
 RECEIVED: 2/3/04 ANALYZED: 2/3/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

*AS 336*



# TEM ASBESTOS ANALYSIS

EMS Lab No. 92239  
 Client VA CLASH  
 Sample No. SX04044

**METHOD OF ANALYSIS**  
 EPA Yarnate 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/386T   
 MCE/314   
 MCE/1017   
 Other

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

G.O. Area (mm²) 0.0095  
 No. of G.O. to Analyze 7

## PREP

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 1200 µl  
 Working Volume 800 µl  
 Weight 100.00 grams  
 Ashted Area 10 %

Date 2-3-04  
 Prepared By SA

## ANALYSIS

Grid Address 11  
 Screen Magnification 1000x  
 Camera Constant 800  
 Accelerating Voltage 100.00 KV  
 Beam Current 10 µA

Analyst W. de

**A**  
 Date 2/3/04

## 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
<u>5-4</u>		<u>W3</u>														
<u>5-4</u>		<u>W3</u>														
<u>5-4</u>		<u>W3</u>														

16 Lines

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

Very Light   
 Very Light   
 Good

Lightly   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

BB-337  
 TEM-2A (8-01)

# TEM ASBESTOS ANALYSIS

EMS Lab No. 92239  
 Client VA CALABS  
 Sample No. SX04064

RECEIVING

Page 1 of 1

MICROSCOPE

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 5000 H600B - Serial No. 542-05-06   
 Camera Constant 20 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu$ A

Analyst SA Date 2/3/04

ANALYSIS

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
<u>5000</u>	<u>1</u>	<u>NED</u>														
<u>5000</u>	<u>2</u>	<u>NED</u>														
<u>5000</u>	<u>3</u>	<u>NED</u>														
<u>5000</u>	<u>4</u>	<u>NED</u>														
<u>5000</u>	<u>5</u>	<u>NED</u>														
<u>5000</u>	<u>6</u>	<u>NED</u>														
<u>5000</u>	<u>7</u>	<u>NED</u>														
<u>5000</u>	<u>8</u>	<u>NED</u>														
<u>5000</u>	<u>9</u>	<u>NED</u>														
<u>5000</u>	<u>10</u>	<u>NED</u>														
<u>5000</u>	<u>11</u>	<u>NED</u>														
<u>5000</u>	<u>12</u>	<u>NED</u>														
<u>5000</u>	<u>13</u>	<u>NED</u>														
<u>5000</u>	<u>14</u>	<u>NED</u>														
<u>5000</u>	<u>15</u>	<u>NED</u>														
<u>5000</u>	<u>16</u>	<u>NED</u>														

16 Lines

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

EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503 • (626) 568-4065

92-339

TEM-2B (8-01)

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 92239  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040145  
 RECEIVED: 2/3/04 ANALYZED: 2/3/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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
Amphibola .....	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.

95-339

# TEM ANALYSIS

EMS Lab No. 92239  
 Client VAGLAHS  
 Sample No. SX01015

## 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   
 (µm) : > 0.25 µm width, > 0.6 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   
 1.1 µm   
 0.22 µm   
 Other

## PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 µl  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

G.O. Area (mm²) 0.0095  
 No. of G.O. to Analyze 7

## ANALYSIS

Grid Address A  
 Screen Magnification 940x  
 Camera Constant 2.67  
 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 2/2/04  
 Analyst Latka

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Amorphous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
<u>CU-3</u>	<u>120</u>	<u>120</u>														
<u>CU-1</u>	<u>120</u>	<u>120</u>														
<u>FE-5</u>	<u>120</u>	<u>120</u>														

16 Lines

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

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



# AIR SAMPLING DATA

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

### 4. EMPLOYEE INFORMATION

a. 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: 02/03/04  
 Project: ACM - Duct Insulation, Duct Removal, Pipe Insulation (12")  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 337, Basement

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 1	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	BSMT South		
b. SAMPLE SUBMISSION NO.	SX040146		
c. TIME ON	9:45		
d. TIME OFF	11:45		
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
Unit	S/mm <sup>2</sup>	
Asbestos (TEM)	N.D.	

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 Dr., Pasadena, CA 91105-2503	PAT NUMBER
---	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 02/03/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 02/03/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) KeyIn Kelly, SST 97-2293	DATE 02/03/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

85-342



4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040146
6. VAIH Laboratory: EMS Laboratories, Pasadena

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face, North
- B. Coveralls: Yes, Tyvec 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: 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 \_\_\_ No X Licensed: Yes \_\_\_ No X
- F. Adeq. Neg. Pressure Diff. in Containment Yes \_\_\_ No \_\_\_
- G. Amended Water Used: Yes X No \_\_\_ How Applied: Hudson Sprayer
- 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 6-32
- 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. 337 Basement 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 02/02/04 are as follows:
 

Bldg. <u>337</u>	Floor: ___	Room: <u>Basement</u>	<u>N.D.</u>	Structures/mm <sup>2</sup>
	Floor: ___	Room: _____		Structures/mm <sup>2</sup>
	Floor: ___	Room: _____	<u>0.0045</u>	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: Kevin Kelly, SST 97-2293

*Handwritten signature and number: 344*



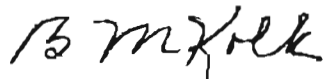
DATE: February 5, 2004  
CLIENT: VA Hospital/West Los Angeles IH (130B)  
Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073  
ATTENTION: Ben Spivey  
REFERENCE: P.O. NO. 691-C30452  
B 337, Clearance BSMT  
DATE COLLECTED: 2/3/04 by K. Kelly  
REPORT NO: 92261  
DATE RECEIVED: 2/4/04 at 0930  
DATE ANALYZED: 2/4/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX040146

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.

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.



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 92261  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 2/4/04  
 ▶ Date Analyzed \_\_\_\_\_  
 ▶ 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"/>
		PCM Range* <input type="checkbox"/>
		(≥ 25 μm Width, ≥ 5.0 μm Length)

Sample Identification	Volume (L)	Mass (mg)	Structure mm	95% CONFIDENCE LEVELS	
				Analytical Sensitivity	Upper Limit
SX 040146	1200	-	N.D.	0.005	0.02

87-346  
 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

92261

PAGE  OF

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

REWORKED BY KELLY / JARVIS  
 TIME / DATE 02/03/04  
 DATE OF SHIPMENT 02-03 CARRIER FedEx  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID.NO(S) B337, CLEARANCE BSMT  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA GLASS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 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 02.03.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 1 SAMPLER'S NAME [Signature] / K KELLY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_ PRINTED: \_\_\_\_\_

(FOR EMS ONLY)		VOLUME			
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	TIME WEIGHT
92261-46	SX040146	BSMT CLEARANCE		TEM	1200 L
<p><i>Results ASAP TEM CLEARANCE!</i></p>					

FOR EM ONLY (SF 5/00)

Laboratory No. 92261  
 Date of Package Delivery 2-4-04 Received By [Signature] Time 9:30  
 Condition of Package on Receipt \_\_\_\_\_ Shipping Bill Retained:  YES  NONE  
 Condition of Custody Seal \_\_\_\_\_  
 No. of Samples \_\_\_\_\_ Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 2-4-04 Misc. Info. B337  
 Disposition of Samples ETA 1/15

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 92261  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040146  
 RECEIVED: 2/4/04 ANALYZED: 2/4/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.	

COMMENTS: LIGHT TO MODERATE DEBRIS

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

85-348

# TEM ANALYSIS

EMS Lab No. 97781  
 Client VA GZAHS  
 Sample No. SX040146

## RECEIVING

METHOD OF ANALYSIS  
 EPA Yamato 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   
 (100-25 µm width, >50 µm length)

### TYPE OF SAMPLE

Air  Soil  Bulk  Water  Wipe  Other   
 Dust/Microvec

G.O. Area (mm<sup>2</sup>) 0.95  
 No. of G.O. to Analyze 7

### FILTER TYPE/AREA (mm<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

## PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 100 liters  
 Working Volume 24 ml  
 Weight 100 grams  
 Ashed Area 24 %

Date 2-4-04  
 Prepared By JK

## ANALYSIS

Grid Address A  
 Screen Magnification 19400  
 Camera Constant 24  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

**A**

Analyst Radke DATE 2/4/04

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Amorphous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
<u>W-3</u>	<u>W-3</u>	<u>W-3</u>														
<u>W-6</u>	<u>W-6</u>	<u>W-6</u>														
<u>W-3</u>	<u>W-3</u>	<u>W-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

95-349



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO. 619	3. REGION NO. VISN #22
<b>4. EMPLOYEE INFORMATION</b>			
a. 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:** 02-09-04  
**Project:** Vent Duct Insulation Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 257 Room : 128 Floor : 1 st 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
--	---	--

6. SAMPLING INFORMATION					
(Fill in Sample No.)	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	PWRK/TEM	IWA/PCM	Clearance/TEM		
b. SAMPLE SUBMISSION NO.	SX040158	SX040159	SX040160		
c. TIME ON	09:30	11:30	14:05		
d. TIME OFF	11:30	13:55	15:45		
e. TOTAL TIME (in minutes)	120	145	100		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	12	10	15		
g. VOLUME (in liters)	1440	1450	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	UNIT	RESULT	DATE
Asbestos	S/m <sup>2</sup>	N.D.	F/cc	N/A	S/m <sup>2</sup>	N.D.			02/09/04

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy(PCM) / 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 Dr., Pasadena, CA 91105-2503

PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 02/09/04	10b. FLOW RATE CALCULATIONS 12/15 liter/minute	10c. (POST) CALI-BRATION DATE 02/09/04	10d. FLOW RATE CALCULATIONS 12/15 liter/minute
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling)  
 Ted Davis, CAC 94-1378

DATE  
 02/09/04

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

*85-351*

5. Clearance: 5X040160 - TEM CLEARANCE  
6. VAIH Laboratory: EMS LABORATORY - PASADENA

III. Contractor's PPE:

A. Respirator Type & Manufacturer: NORTH HALF FACE  
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:  Shower: Yes  No   
D. If Containment in Use, are Critical Openings Properly Sealed: Yes  No   
E. Neg. Air/HEPA Filtration Used: Yes  No  Licensed: Yes  No   
F. Adeq. Neg. Pressure Diff. in Containment: Yes  No   
G. Amended Water Used: Yes  No  How Applied: HUDSON SPRAYER  
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 6-32  
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 257, Floor 1<sup>ST</sup> Rooms 2B 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 02-09-04 are as follows:

Bldg. <u>257</u>	Floor: <u>1<sup>ST</sup></u>	Room: <u>2B</u>	<u>N.D.</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

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

Industrial Hygienist: [Signature], CAC-94-1378

05-352



85-353

85-354

# AIR SAMPLING DATA

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

**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).

**Room 257, Rm 12B - Removal of 10 L.F. AEROCOL AIRDUCT. USING PPE, WET Removal AND ENCAPSULATION.**

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	SAMPLE
a. SAMPLE TYPE/MEDIA	mg · 25mm	10.08;	0.45u(TBM)		
b. SAMPLE SUBMISSION NO.	SX-04-0158	SX-04-0159	SX-04-0160		
c. TIME ON	0930	1130	1405		
d. TIME OFF	1130	1355	1545		
e. TOTAL TIME (In minutes)	120	145	100		
f. FLOW RATE <input type="checkbox"/> L/min <input type="checkbox"/> cc/min	12	10	15		
g. VOLUME (In liters)	1440	1450	1500		

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

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

SUBSTANCE	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	a. PERCENTAGE		T/C	DATE
							UNIT	RESULT		

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

**TRANSMISSION ELECTRON MICROSCOPY - AHERA METHOD -  
PHASE CONTRAST MICROSCOPY.**

8. IHC COMMENTS TO LABORATORY

**TEM (AHERA) & PCM**

9a. ANALYTICAL LABORATORY NAME <b>EMG LABORATORIES</b>	9c. AIHA ACCREDITATION NUMBER
---	-------------------------------

9b. ADDRESS <b>117 WEST BELLEVUE DRIVE, PASADENA</b>	9d. PAT NUMBER
---	----------------

9. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
10a. (PRE) CALIBRATION DATE	10b. FLOW RATE CALCULATIONS	10c. (POST) CALIBRATION DATE <b>02-09-04</b>	10d. FLOW RATE CALCULATIONS <b>85-355</b>

11. NAME & JOB TITLE (Person Performing Sampling) <b>Michael ... SAC 94-1370</b>	SURVEY DATE <b>02-09-04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN 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: 92372.1 Date Received: 2-10-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 2-10-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLYD Date Sampled: 2-09-04 Project #: BLDG. 257, RM. 128 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 92372.1.VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX040159	OVERLOADED				1450.0	N.A.			

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. 3276 S.AHMAD   
 B.M. Kolk, Laboratory Director 

Interlaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3  
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 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

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88-356

SUBMITTAL FORM/Laboratory Services

92372.1

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

RELINQUISHED BY T. DAVIS  
 TIME / DATE 5 PM / 02/09  
 DATE OF SHIPMENT 02/09 CARRIER Fed-Ex  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) Box 257, Rm 128  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA CLABS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE BEN SPIVEY  
 CONTACT \_\_\_\_\_

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 02/09 - 0930 TO 1930  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 5 (2+1) SAMPLER'S NAME TED DAVIS SIGNATURE \_\_\_\_\_  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER PCM

(FOR EMS ONLY)	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT
EMS Sample No. <u>92372-58</u>	<u>5X040158</u>	<u>Box 257 Rm 128, VENT DUCT</u>	<u>PREWORK</u>	<u>TEM (AHERA)</u>			
<u>92372.1-1159</u> <u>RUSH</u>	<u>5X040159</u>	<u>Box 257, Rm 128, VENT DUCT</u>	<u>WBRIC AREA</u>	<u>PCM / ASE</u>			
	<u>5X040160</u>	<u>Box 257, Rm 128, CLEARANCE</u>	<u>CO.</u>	<u>TEM (AHERA)</u>			
<u>92372-60</u>		<u>Vol # 158 - 1440 L</u>					
		<u>Vol # 160 - 1500 L</u>					
		<u>* NOTE: PLEASE RUSH! SAMPLE # 5X040160 - TEM - CALL BEN SPIVEY OR DJE WITH RESULTS. THANK YOU -</u>					

FOR EM VLY (SF 5/00)

Laboratory No. 92372.1 Received By [Signature] Time 10:00  
 Date of Package Delivery 2-10-09 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt com Condition of Custody Seal com  
 (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 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 2-10-09 Misc. Info. 92-357  
 Disposition of Samples CCY VAP

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 92372  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_  
 Date Received 2/10/04  
 Date Analyzed 2/10/04  
 Verbal Results \_\_\_\_\_  
 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"/> 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"/> $\geq 1 \mu\text{m}$ Length <input type="checkbox"/> PCM Range* <input type="checkbox"/> $\geq 25 \mu\text{m}$ Width <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(mg)	Structures/mm	Analytical Sensitivity	95% CONFIDENCE LEVELS	
					Lower Limit	Upper Limit

SX 040158	1440	-	N.D.	0.005	0	0.02
SX 040160	1500	-	N.D.	0.005	0	0.02

TEM - 3A (12-00)  
 85-358

- "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

92372

PAGE  OF

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

RELINQUISHED BY T. DAVIS  
 TIME / DATE 5 PM / 02/09  
 DATE OF SHIPMENT 02/09 CARRIER Fed-Ex  
 CLIENT P.O. NO.  
 CLIENT JOB/PROJECT ID NO(S)  
 Bldg 257, RM 12B.  
 PACKAGE SHIPPED FROM

CLIENT VA GLASS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
 LOS ANGELES, CA 90025 RM 308  
 TELEPHONE BEN SPIVEY  
 CONTACT

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 02/09 - 0930 TO 1930  
 SAMPLE PRESERVATIVES (2+) HOLDING TIMES  
 NO. OF SAMPLES SENT 5 SAMPLER'S NAME Ted Davis  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER PCm

SIGNATURE [Signature] PRINTED TEM (AHERA)

(FOR EMS ONLY)  
 EMS Sample No.

CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME: TIME WEIGH IF APPLICABLE
92372-98	SX040158 Bldg 257 RM 12B, VENT DUCT, PREWORK - TEM (AHERA)	
92372.1-1159	SX040159 Bldg 257, RM 12B, VENT DUCT - WORK AREA PCm 45	
RUSH	SX040160 Bldg 257, RM 12B, CLEARANCE CO. TEM (AHERA)	
92372-60	VOL # 158 - 1440 L	
	VOL # 160 - 1500 L	
* Note: PLEASE RUSH! SAMPLE # SX040160 - TEM - CALL BEN SPIVEY OR DR Z WITH RESULTS. THANK YOU -		

FOR E. ONLY (SF 5/00)

Laboratory No. 92372 Received By [Signature] Time 10:00  
 Date of Package Delivery 2-10-04 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 2-10-04 Misc. Info.  
 Disposition of Samples [Signature]

# 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: 92372.1 Date Received: 2-10-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 2-10-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 2-09-04 Project #: BLDG. 257, RM. 128 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 92372.1.VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040159	OVERLOADED			1450.0	N.A.			

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 S. Ahmad B.M. Kolk, Laboratory Director B.M. Kolk  
 I.D. 3276 S.AHMAD

Intralaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3  
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85-360



SUBMITTAL FORM/Laboratory Services

92372

PAGE  OF

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

RELINQUISHED BY: T. DAVIS

CLIENT: VA GLASS (130b)  
 ADDRESS: 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

TIME / DATE: 5 PM / 02/09

DATE OF SHIPMENT: 02/09 CARRIER: Fed-Ex

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

CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S): BLDG 257, RM 12B  
 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: 02/09 - 0930 to 1930

SAMPLE PRESERVATIVES: (2+1) HOLDING TIMES: \_\_\_\_\_

NO. OF SAMPLES SENT: 3 SAMPLER'S NAME: TED DAVIS SIGNATURE: \_\_\_\_\_ PRINTED: TEM (AHERA)

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER: Pen

(FOR EMS ONLY)

VOLUME  
TIME WEIGH  
OF APPLICABLE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION: LOCATION: ANALYSIS	VOLUME TIME WEIGH OF APPLICABLE
92372-58	SX040158	Bldg 257 Rm 12B, VENT DUCT, PREWORK. - TEM (AHERA)	
92372.1-1159 RUSH.	SX040159	Bldg 257, Rm 12B, VENT DUCT - UBRIC AREA TPCM-45	
92372-60	SX040160	Bldg 257, Rm 12B, CLEARANCE CO. TEM (AHERA)	
		Vol. # 158 - 1440 L	
		Vol. # 160 - 1500 L	
		* NOTE: PLEASE RUSH!! SAMPLE # SX040160 - TEM - CALL BEN SPIVEY OR DR Z WITH RESULTS. THANK YOU -	

(SF 5/00)

FOR E ONLY

Laboratory No. 92372.1 Received By: [Signature] Time: 10:00

Date of Package Delivery: 2-10-09 Shipping Bill Retained: 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: 2+1 Chain-of-Custody Signature: \_\_\_\_\_

Date of Acceptance into Sample Bank: 2-10-09 Misc. Info.: 85-361

Disposition of Samples: EQ LAB

# AIR SAMPLING DATA

1 FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2 STATION NO 616	3 REGION NO VJSN #22
--	---------------------	-------------------------

4. EMPLOYEE INFORMATION		
a. 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:** 02-25-04  
**Project:** Lead Based Paint (LBP) Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. FQ90A Room: Master Bedroom Floor: 2<sup>nd</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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	BKG/LEAD	Clearance/LEAD			
b. SAMPLE SUBMISSION NO.	SX040208	SX040212			
c. TIME ON	11:45	09:50			
d. TIME OFF	13:45	11:50			
e. TOTAL TIME (In minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	10	10			
g. VOLUME (in liters)	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
LEAD	mg/m <sup>3</sup>	<0.002	mg/m <sup>3</sup>	<0.002					03/02/04

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

8. IH COMMENTS TO LABORATORY  
LEAD

9a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER N/A
--	----------------------------------

9b. ADDRESS  
17 West 10th Street, Suite 100, Norfolk, VA 23502

10. EQUIPMENT IDENTIFICATION (Manufacturer & Serial No.)

11. PREVIOUSLY USED EQUIPMENT IDENTIFICATION DATE	12. OPERATOR NAME	13. OPERATOR SIGNATURE
	Kevin J. Kelly	[Signature]

11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293, Dr. Zainul Abedin	DATE 02/26/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	--

85-362



4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040212
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tyveck 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: 1 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: Hudson Sprayer
- H. External AFD Filters Replaced Daily: Yes X No \_\_\_
- I. Wet Wiping and/or HEPA Vacuuming Done after LBP Abated: Yes X No \_\_\_
- J. Work Area Insp./Found to be Free of LBP Dust or Debris: Yes X No \_\_\_
- K. Encapsulation: Yes X No \_\_\_ Name & Type: Foster 32-P
- 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. TQ90A, 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 02/26/04 are as follows:

Bldg. <u>TQ90A</u>	Floor: <u>2<sup>nd</sup></u>	Room: MBR	<u>&lt;8</u> mg/ft <sup>3</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: Kevin J. Kelly, SST 97-2293, Dr. Zainul Abedin

*JB 364*



02-27-04

EMS LABORATORIES CHEMISTRY REPORT

page 2

CLIENT: VA-GLAHS

LABORATORY NUMBER: 92657.1

ELEMENT	DETECTION LIMIT
	(mg)
LEAD	<0.002

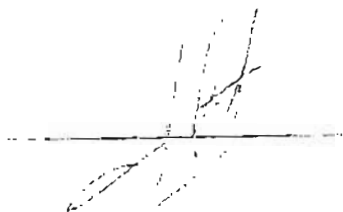
SAMPLE NAME	WEIGHT
ELEMENT	(mg)
BLANK	
LEAD	<0.002

METHOD: NIOSH 7082.

mg/m<sup>3</sup> = milligrams per cubic meter

SAMPLE NAME	WEIGHT	CONCENTRATION
ELEMENT	(mg)	(mg/m <sup>3</sup> )
SX040208	FILTER VOLUME 1200 liters	
LEAD	<0.002	<0.002

CHEMIST



RB-366

7665 / *[Signature]*  
 RELINQUISHED BY *[Signature]*  
 TIME / DATE 02-26-04

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

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
 LOS ANGELES, CA 90025 RM 30E  
 TELEPHONE *[Redacted]*  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 0226 CARRIER  
 CLIENT P.O. NO.  
 CLIENT JOB/PROJECT ID NO(S) F090A / BTWJ 266 267  
 PACKAGE SHIPPED FROM *[Redacted]*

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 02-25-04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES  
 NO. OF SAMPLES SENT 5 (1+1+3) SAMPLER'S NAME  
 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)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION/ANALYSIS	VOLUME/TIME/WEIGHT (IF APPLICABLE)
92657-7	SK040207	BKGM/MBL	MOU 15DL
92657.1-8	SK040208	BKGM/MBR	LEAD 1200L
92657.2-9	BU040209	FLOOR <sup>BTWJ</sup> & MATTIC 266 267	PLM BULK
↓ 10	BU040210	FLOOR TIE & MATTIC	PLM BULK
↓ 11	BU040211	FLOOR TIE & MATTIC	PLM BULK

*[Signature]* RUSH ⇒ Need RESULTS FOR BU040209 + 211 ASAP by 12 noon on 2/27/04 FRUIT

FOR EMS ONLY

Laboratory No. 92657.1 Received by *[Signature]* Time 10:00  
 Date of Package Delivery 2-27-04 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 1 + 1 + 3 Chain-of-Custody Signature *[Signature]*  
 Date of Acceptance into Sample Bank 2-27-04 Misc. Info. 367  
 Disposition of Samples *[Signature]*

12-27-04

EMS LABORATORIES CHEMISTRY REPORT

page 3 of 3

CLIENT: VA-GLAHS

LABORATORY NUMBER: 92656

ELEMENT	DETECTION LIMIT
	(mg)
LEAD	< 0.002

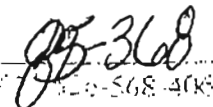
SAMPLE NAME	WEIGHT
ELEMENT	(mg)
BLANK	
LEAD	< 0.002

METHOD: NIOSH 7082

mg/m<sup>3</sup> = milligrams per cubic meter

SAMPLE NAME	WEIGHT	CONCENTRATION
ELEMENT	(mg)	(mg/m <sup>3</sup> )
5X040212	FILTER VOLUME 1200 liters	
LEAD	< 0.002	< 0.002

CHEMIST





# 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
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:** 02-11-04  
**Project:** TSI Removal & Pipe Insulation  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 258 Room: 220J Floor: 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 1	SAMPLE 2	SAMPLE 3	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	BKG/TEM	Halfway Adj. RM	Clearance / TEM		
b. SAMPLE SUBMISSION NO.	SX040179	SX040180	SX040181		
c. TIME ON	10:35	10:45	10:55		
d. TIME OFF	12:35	12:45	12:55		
e. TOTAL TIME (In minutes)	120	120	120		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10		
VOLUME (In liters)	1200	1200	1200		

### 6. RESULTS (For Laboratory Use)

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

				a. PERCENTAGE
				b. TYPE
Unit	S/mm <sup>3</sup>	F/CC	S/mm <sup>3</sup>	
Asbestos (PCM)		0.0022		
Asbestos (TEM)	N.D.		N.D.	

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 <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>02/11/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>02/11/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE <b>02/11/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	-------------------------	---

*25-369*

Date: 02/11/04  
From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 02/11/04

Location: Bldg. 258 Room : 220J Floor : 2nd

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM: TSI removal

Quantity of ACM:

Abatement Type & Method(s): Glove Bag & Scrape Up Inside Containment

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 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: N/A Yes 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 Worker's Name/SS #:

2. Pre-Tests:

3. Perimeter: SX040179, SX040180

85-370

- 4. Inside Work Area:
- 5. Clearance: SX040181
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: Yes X No     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 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: Hudson Sprayer
- 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: Poster Bridging
- 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 : 2<sup>nd</sup> Rooms : 220J 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 02/11/04 are as follows:
 

Bldg. <u>258</u>	Floor : <u>2nd</u>	Room : <u>220J</u>	<u>N.D.</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 : Kevin J. Kelly, SST 97-2293

*85371*

# 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:** 92417.1      **Date Received:** 2-12-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 2-12-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 2-11-04      **Project #:** BLDG 258      **Filter Size:** 25MM  
LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 92417.1VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040180	100	5.5	7	2697	1200.0	0.0022	0.0022	0.0257	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  
 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  
 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**

85-372

DATE: February 12, 2004

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-C30452  
B 258, R 220J

DATE COLLECTED: 2/11/04 by K. Kelly

REPORT NO: 92417

DATE RECEIVED: 2/12/04 at 1000

DATE ANALYZED 2/12/04

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

SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: SX040179, SX040181

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.

373

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

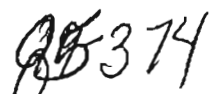
92417

▶ EMS Laboratory No. VA-G-T-Att-S      ▶ Date Received 2/12/04      ▶ Verbal Results  
 ▶ Client VA-G-T-Att-S      ▶ Date Analyzed 2/12/04      ▶ Fax Results  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <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"/>
LEVEL I <input 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"/> * ( $\geq 2.5 \mu\text{m}$ Width, $\geq 5.0 \mu\text{m}$ Length)

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

SX 040179	1200	-	N.D.	N.D.	0.005	0	0.02
SX 040181	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: \_\_\_\_\_

# SUBMITTAL FORM/Laboratory Services

92417.1 PAGE 1 OF 1

TURNARO IND TIME: STD  48 HR.  24 HR.   
<8 HR.  WKND  OTHER:

REQUISITIONED BY Kenly  
TIME / DATE 02.11.04

CLIENT VA GLASS (130b)  
ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

DATE OF SHIPMENT 02.11 CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) \_\_\_\_\_

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

BLDG 259  
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 02.11.04

SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
NO. OF SAMPLES SENT 3 (2+) SAMPLER'S NAME [Signature] / Kenly

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

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION	ANALYSIS	VOLUME	
92417-79	SK040179	BACKGROUND	R220T	TEM	1200L
92417.1-80	SK040180	DISA HIGHWAY ADJ.	R220T	PCM	1200L
92417-81	SK040191	CLEARANCE	R220T	TEM	1200L

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION	ANALYSIS	VOLUME	
92417-79	SK040179	BACKGROUND	R220T	TEM	1200L
92417.1-80	SK040180	DISA HIGHWAY ADJ.	R220T	PCM	1200L
92417-81	SK040191	CLEARANCE	R220T	TEM	1200L

Need results ASAP by 12 noon 02/12/04

FOR EM ONLY (SF 5/00)

Laboratory No. 92417.1 Received By [Signature] Time 10:00

Date of Package Delivery 2-12-04 Shipping Bill Returned: YES  NONE

Condition of Package on Receipt u 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] 09-375

Date of Acceptance into Sample Bank 2-12-04 Misc. Info. [Signature]

Disposition of Samples [Signature]

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 92417  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040179  
 RECEIVED: 2/12/04 ANALYZED: 2/12/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

376



**SUBMITTAL FORM/Laboratory Services**

**93070**

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
 TIME / DATE 03-24-04

CLIENT VA-GLAHS (130b)  
 ADDRESS 1301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308

DATE OF SHIPMENT 03-24 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_

TELEPHONE BEN SALVEY  
 CONTACT \_\_\_\_\_

CLIENT JOB/PROJECT ID NO(S) STEAM TUNNELS / MH 63, MH 62  
 PACKAGE SHIPPED FROM \_\_\_\_\_

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

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

DATE/TIME OF SAMPLE COLLECTION 03-24-04

SAMPLE PRESERVATIVES N/A  
 NO. OF SAMPLES SENT 4 (2+2) SAMPLER'S NAME \_\_\_\_\_

HOLDING TIMES \_\_\_\_\_  
 SIGNATURE [Signature] PRINTED K KELLY

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)
93070.1-35	SX040235	CONF. SPACE EARLY AREA MH63	PCM	1200 L
93070-36	SX040236	CLEARANCE MH 63	TEM	1200 L
93070.1-37	SX040237	CONF. SPACE EARLY AREA MH62	PCM	1200 L
93070-38	SX040238	CLEARANCE MH 62	TEM	1200 L
<p>NOTE: SAMPLES FOR PCM ANALYSIS STANDARDS TAT                  PLEASE RUSH THE FOLLOWING:                  TEM SAMPLES SX040236, SX040238                  &lt;STR RUSH! THANK!</p>				

(SF 5/00)

Laboratory No. **93070**

Date of Package Delivery 3-25-04

Condition of Package on Receipt u

No. of Samples 2 FZ

Date of Acceptance into Sample Bank 3-25-04

Disposition of Samples EMS LAB

Received By [Signature] Time 10:00

Shipping Bill Retained: YES  NONE

Condition of Custody Seal u

Chain-of-Custody Signature \_\_\_\_\_

Misc. Info. 85377

DATE: April 2, 2004  
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-C47259  
Steam Tunnels/ MH 63, MH 62  
DATE COLLECTED: 3/24/04 by K. Kelly  
REPORT NO: 93070  
DATE RECEIVED: 3/25/04 at 1000  
DATE ANALYZED: 3/25/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP 1101218  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: SX040236, SX040238

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.

*98-378*

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 93070 ▶ Date Received 3/25/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S. ▶ Date Analyzed 3/25/04 ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>		STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ 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>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit
SX 040236	1200	-	N.D.	N.D.	0	0.02
SX 040238	1200	-	N.D.	N.D.	0	0.02

85-379

- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments

**SUBMITTAL FORM/Laboratory Services**

**93070**

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
 TIME / DATE 03-24-04  
 DATE OF SHIPMENT 03-24 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) STEAM TUNNELS / MH 63, MH 62  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 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. \_\_\_\_\_

DATE/TIME OF SAMPLE COLLECTION 03.24.04  
 SAMPLE PRESERVATIVES N/A  
 NO. OF SAMPLES SENT 4 (2+2) SAMPLER'S NAME \_\_\_\_\_  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

HOLDING TIMES \_\_\_\_\_  
 SIGNATURE [Signature] PRINTED K KELLY

(FOR EMS ONLY) EMS Sample No. CLIENT SAMPLE NO. DESCRIPTION-LOCATION ANALYSIS VOLUME, TIME WEIGHT IF APPLICABLE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION-LOCATION	ANALYSIS	VOLUME, TIME WEIGHT IF APPLICABLE
93070.1-35	SX040235	CONF. SPACE ENTRY AREA MH63	PCM	1200 L
93070-36	SX040236	CLEARANCE MH63	TEM	1200 L
93070.1-37	SX040237	CONF. SPACE ENTRY AREA MH62	PCM	1200 L
93070-38	SX040238	CLEARANCE MH62	TEM	1200 L

NOTE: SAMPLES FOR PCM ANALYSIS STANDARD TAT  
 PLEASE RUSH THE FOLLOWING:  
 TEM SAMPLES SX040236, SX040238  
 <8HR RUSH! THANK!

FOR EMS ONLY (SF 5/00)

Laboratory No. 93070 Received By [Signature] Time 10:00  
 Date of Package Delivery 3-25-04 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt u Condition of Custody Seal u  
 (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 + 2 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 3-25-04 Misc. Info. 85-300  
 Disposition of Samples EAS LAB

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 93070  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040236  
 RECEIVED: 3/25/04 ANALYZED: 3/25/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

*381*



# TEM ANASTOS ANALYSIS

EMS Lab No. 93070

Client VA CALAHS

Sample No. SX040236

RECEIVING

Grid Address B H600A - Serial No. 542-36-01

Screen Magnification 9700 x H600B - Serial No. 542-05-06

Camera Constant 17.3 H600C - Serial No. 542-24-03

Accelerating Voltage 100 KV

Beam Current 10  $\mu$ A

## ANALYSIS

Analyst WOM Date 3-25-04

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments				
			Width	Length	Thickness	Chrysoth	Amphibole	Anfibrous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id		
<u>13</u>	<u>W3</u>	<u>W3</u>																	
<u>13</u>	<u>W3</u>	<u>W3</u>																	
<u>13</u>	<u>W3</u>	<u>W3</u>																	

16 Lines

OBSERVATIONS: Clean  Debris  Gypsum

Condition of the Grid:  Very Light  Very Light  Light  Light  Scrappy  Undissolved Filter

Moderate  Moderate  Undissolved Filter

Heavy  Heavy  Folded

Very Heavy  Very Heavy

89383

# AIR SAMPLING DATA

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

**4. EMPLOYEE INFORMATION**

a. 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:** 03-26-04  
**Project:** Removal TSI - Steamlines & Valves  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. MH Room : 61 Floor : N/A

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	DURING/PCM	Clearance/TEM			
b. SAMPLE SUBMISSION NO.	SX040239	SX040240			
c. TIME ON	0930	0830			
d. TIME OFF	1130	1030			
e. TOTAL TIME (in minutes)	120	120			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/min	10	10			
g. VOLUME (in liters)	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	0.002	S/m <sup>2</sup>	N.D					04/06/04

7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments)  
 Phase Contrast Microscopy(PCM) / 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 Dr., Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE 03/26/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALIBRATION DATE 03/26/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293		DATE 03/26/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

AUTOMATED VA Form 10-0018 (In Lieu of)

88-384



Date: 03/26/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/26/04

Location: MH 61

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez Cabrillo

Type of ACM: Remove TSI from Steamlines

Quantity of ACM: 30 Ln. Ft.

Abatement Type & Method(s): Wet, Peel/Glovebag Inside Containment

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 \_\_\_\_\_ No X 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 N/A 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 X 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: SX040239

05-385

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040240
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: ½ Face North
- B. Coveralls: Yes, Tybec 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: Yes X No \_\_\_ Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No \_\_\_ No. Chambers: 1 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: Hudson Sprayer
- 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 Bridging
- 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. MH 61, Floor N/A, Rooms N/A 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 03/23/04 are as follows:  
 Bldg. MH 61 N.D. 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 : Kevin J. Kelly, SST 97-2293

*Handwritten signature and number: 306*

# 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:** 93135.1      **Date Received:** 3-30-04      **Filter Type:** 25 MM MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 4-6-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 3-25-04      **Project #:** STEAM TUNNELS/MH61      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** BEN SPIVEY      **File Name:** 93135.1VA-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit)	Fibers/CC	LOD	LOQ	ANL-SENT
SX040239	100	5.5	7	2697	1200.0	0.002	0.0022	0.0257	0.0004

µm

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



85-387

In-laboratory Sr is taken as 0.45 In-laboratory Sr is 0.3      Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

**SUBMITTAL FORM/Laboratory Services**

93135.1 PAGE 1 OF 1

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

RECEIVED BY KELLY  
 TIME / DATE 03.26.04  
 DATE OF SHIPMENT 03.26 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) STAN TOWNES / MH 61  
 PACKAGE SHIPPED FROM \_\_\_\_\_

CLIENT VA GLASS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 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 03.25+26.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME [Signature] PRINTED L. KELLY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  ADSORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY) EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
93135.1-39	SK040229	CONF-SPACE ENTRY	MH 61	PCM	1200L
93135-40	SK040240	CLEARANCE	MH 61	TEH	1200L
Need results ASAP for TEH only PCM samples normal TAF.					

FOR EMLY (SF 5/00)

Laboratory No. 93135.1 Received By [Signature] Time 9:30  
 Date of Package Delivery 3-30-04 Shipping Bill Returned: 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 1+1 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 3-30-04 Misc. Info. \_\_\_\_\_  
 Disposition of Samples OKT CAR

DATE: April 6, 2004  
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-C47259  
Steam Tunnels/ MH 61  
DATE COLLECTED: 3/25, 26/04 by K. Kelly  
REPORT NO: 93135  
DATE RECEIVED: 3/30/04 at 0930  
DATE ANALYZED: 3/30/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX040240

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.

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.

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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.

85-389

**SUBMITTAL FORM** / Laboratory Services

**93135**

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

RELINQUISHED BY KELLY  
 TIME / DATE 03.26.04

CLIENT VA GLAHS (130B)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 03.26 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) STEAM TUNNELS / MH 61  
 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 03.25 + 26.04  
 SAMPLE PRESERVATIVES n/a HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME [Signature] PRINTED K. KELLY  
 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
<u>93135-1-39</u>	<u>SX040239</u>	<u>CONF-SPACE ENTRY MH 61</u>	<u>PCM 1200L</u>
<u>93135-40</u>	<u>SX040240</u>	<u>CLEARANCE MH 61</u>	<u>TEM 1200L</u>
		<u>Need results ASAP for TEM only</u>	
		<u>PCM samples normal TAF.</u>	

FOR EIVLY (SF 5/00)

Laboratory No. 93135 Received By [Signature] Time 9:30

Date of Package Delivery 3-30-04 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 14 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 3-30-04 Misc. Info. u 95-390

Disposition of Samples CRS CAB

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 93-135  
 ▶ Client V.A.G.I.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 3/31/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 3/30/04 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>		STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ Length <input type="checkbox"/> $\geq 0.25 \mu\text{m}$ Width, $\geq 5.0 \mu\text{m}$ Length) <input type="checkbox"/>	
---	--	---	--	---	--

Sample Identification	Volume(L)	Mass/ $\text{m}^3$ ( $\text{ng}/\text{m}^3$ )	Structures/ $\text{mm}^2$	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit

SX 040240      1200      -      N.D.      N.D.      0.005      0      0.02

391

- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments \_\_\_\_\_

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 93135  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040240  
 RECEIVED: 3/30/04 ANALYZED: 3/30/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

85-392



# TEM ANALYSIS

EMS Lab No. 6335

Client VALGAFK

Sample No. SX040240

## METHOD OF ANALYSIS

EPA Yamatai 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\*   
 \*60.25 µm width, 5.0 µm length

## TYPE OF SAMPLE

Air  Soil  Bulk  Water  Wipe  Other  Dust/Microvac

FILTER TYPE/AREA (mm)  
 MCE/380  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 500 µliters  
 Working Volume 20 µm  
 Weight 10 grams  
 Ashed Area 0.30-04 %

G.O. Area (mm²) 0.0  
 No. of G.O. to Analyze 2

## ANALYSIS

Grid Address A  
 Screen Magnification 1420x  
 Camera Constant 27.4  
 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**

Analyst Rodde Date 3/30/04

## RECEIVING

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
<u>100</u>	<u>1</u>	<u>NY</u>														
<u>100</u>	<u>2</u>	<u>NY</u>														
<u>100</u>	<u>3</u>	<u>NY</u>														
<u>100</u>	<u>4</u>	<u>NY</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

QB-393

TEM-2A (8-01)



TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 93070  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040238  
 RECEIVED: 3/25/04 ANALYZED: 3/25/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

395





# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
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### 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:** 03-29-04  
**Project:** Removal TSI - Steamlines & Valves  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. MH Room : 60 Floor : N/A

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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	DURING/PCM	DURING/PCM	Clearance/TEM		
b. SAMPLE SUBMISSION NO.	SX040241	SX040242	SX040243		
c. TIME ON	1040	0900	1250		
d. TIME OFF	1240	1100	1450		
e. TOTAL TIME (In minutes)	120	120	120		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	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 = Ceiling T = Time Weighted Average						a. PERCENTAGE			
						b. TYPE			
SUBSTANCE ↓	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	UNIT	RESULT	DATE
Asbestos	F/cc	0.037	F/cc	0.0002	S/m <sup>2</sup>	N.D			04/06/04

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

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) CALIBRATION DATE <b>0330/04</b>	10b. FLOW RATE CALCULATIONS <b>10 liter/minute</b>	10c. (POST) CALIBRATION DATE <b>03/30/04</b>	10d. FLOW RATE CALCULATIONS <b>10 liter/minute</b>
---	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE <b>03/30/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

AUTOMATED VA Form **10-0018** (In Lieu of)

*88-398*

Date: 03/29/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/29/04

Location: MH 60

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez Cabrillo

Type of ACM: Remove TSI from Steamlines

Quantity of ACM: 83 Ln. Ft.

Abatement Type & Method(s): Wet, Peel/Glovebag Inside Containment

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 \_\_\_\_\_ No X 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 N/A 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 X 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: SX040241, SX040242

85-399

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040243
- 6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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: Yes X No     Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No     No. Chambers: 1 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: Hudson Sprayer
- 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 Bridging
- 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. MH 60, Floor N/A, Rooms N/A 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 03/23/04 are as follows:  
 Bldg. MH 60 N.D. 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 : Kevin J. Kelly, SST 97-2293

*Handwritten signature and number: KB-400*



**SUBMITTAL INFORMATION**

**TURNAROUND TIME**

CLIENT VA-GLAHS (130b) TIME / DATE 03.27.04  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218 DATE OF SHIPMENT 03.25 CARRIER \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308 CLIENT P.O. NO. \_\_\_\_\_  
 TELEPHONE BEN SPIVEY CLIENT JOB/PROJECT ID NO. STEAM TUNNELS / MH60  
 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 03.26+29.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIME \_\_\_\_\_  
 NO OF SAMPLES SENT 3 SAMPLER'S NAME [Signature] PRINTED K KELLY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION-LOCATION	ANALYSIS	TIME
93136.1-41	SX040241	CONF. SPACE ENTRY MH60	PCM	1200L
↓ 42	SX040242	CONF. SPACE ENTRY MH60	PCM	1200L
93136-43	SX040243	CLEARANCE MH60	TEM	1200L
<p><i>Need result results for TEM only by 2PM TUES 3/30</i></p> <p><i>PCM SAMPLES STANDARD TAT</i></p>				

FOR E ONLY (SF 5/00)

Laboratory No. 93136.1 Received By [Signature] Time 9:30  
 Date of Package Delivery 3-30-04 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 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 5-30-04 Misc. Info. \_\_\_\_\_  
 Disposition of Samples [Signature]

# 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: 93136.1 Date Received: 3-30-04 Filter Type: 25 MM MCE Filter Area: 385

Client: VAGLAHS Date Analysed: 4-6-04 Mag: 400x Field Area: 0.00785MM

Address: 11301 WILSHIRE BLVD Date Sampled: 4-26-29-04 Project #: TEAM TUNNELS/NH60 Filter Size: 25MM

LOS ANGELES, CA 90073 Attention: BEN SPIVEY File Name: 93136.1VA-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq mm	Fiber/Filter Volume (L/L)	Fibers/CC	LOQ	ANL SENT.
SX040241	100	89.5	114	43895	0.037	0.0257	0.0004
SX040242	100	0.5	1	245	0.0002	0.0257	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  
 I.D. 2033 JEFF WAN  
 B.M. Kolk, Laboratory Director

*B.M. Kolk*

85-402

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

DATE: April 7, 2004

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-C47259  
Steam Tunnels/ MH 60

DATE COLLECTED: 3/26, 29/04 by K. Kelly

REPORT NO: 93136

DATE RECEIVED: 3/30/04 at 0930

DATE ANALYZED: 3/30/04

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

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

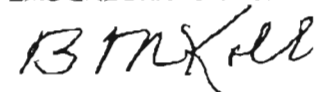
The sample was identified as: SX040243

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.

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.

**SUBMITTAL FORM** / Laboratory Services

**93136**

PAGE 1 OF 1

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

REQUISITIONED BY KELLY

CLIENT VA-GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

TIME / DATE 03-29-04  
 DATE OF SHIPMENT 03-29 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) STEAM TUNNELS / MH60  
 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 03-26+29-04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME [Signature] / KELLY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)	CLIENT SAMPLE NO.	DESCRIPTION: LOCATION: ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
EMS Sample No. <u>93136.1-41</u>	<u>SK040241</u>	<u>CONF. SPACE ENTRY MH60</u>	<u>PCM 1200L</u>
<u>42</u>	<u>SK040242</u>	<u>CONF. SPACE ENTRY MH60</u>	<u>PCM 1200L</u>
<u>93136-43</u>	<u>SK040243</u>	<u>CLEANANCE MH60</u>	<u>TEM 1200L</u>
<p><u>Need <u>visit</u> results for TEM only</u>  <u>by 2PM TUES 3/30</u></p> <p><u>PCM SAMPLES STANDARD TAG</u></p>			

(SF 5/00)

FOR EMLY

**93136**

Laboratory No. \_\_\_\_\_ Received By [Signature] Time 9:30  
 Date of Package Delivery 3-30-04 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 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 3-30-04 Misc. Info. [Signature]  
 Disposition of Samples COG 10/4

**RESULTS OF AIR FILTEK ANALYSIS by TEM for Asbestos Structures**

▶ EMS Laboratory No. 93136  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 3/30/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 3/30/04 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>		STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ 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>2</sup>	Structure/cc	95% CONFIDENCE LEVELS		
					Analytical Sensitivity	Lower Limit	Upper Limit
SX 040243	1200	-	N.D.	N.D.	0.005	0	0.02

TEM - 3A (02-04)

85-405

- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments \_\_\_\_\_

**EMS LABORATORIES**

117 West Bellevue Drive / Pasadena, CA 91105-2503 / 626-568-4065 / Fax: 626-796-5282

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 93136  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040243  
 RECEIVED: 3/30/04 ANALYZED: 3/30/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

*85-406*

# TEM ANALYSIS

EMS Lab No. 93336  
 Client SKG-AHS  
 Sample No. SK640793

**METHOD OF ANALYSIS**  
 EPA Yemate Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:1   
 LENGTHS  
 All Sizes (EPA)   
 (µm) : ≥ 0.05   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Plating\*   
 (>0.25 µm with >5.0 µm length)

## RECEIVING

**TYPE OF SAMPLE**  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvac   
**FILTER TYPE/AREA (mm)**  
 MCE/885   
 MCE/014   
 MCE/1017   
 Other   
**PORE SIZE**  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other   
 G.O. Area (mm<sup>2</sup>) 0.0  
 No. of G.O. to Analyze 7

## PREP

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 700 liters  
 Working Volume 250 ml  
 Weight 100 grams  
 Ashed Area 10 %  
 Date 3-30-09  
 Prepared By Brnk

## ANALYSIS

Grid Address A  
 Screen Magnification 1920  
 Camera Constant 28.9  
 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 3/30  
 Analyst ladle

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Anhydrous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
F3-6	NA	NA														
F4-3	NA	NA														
G4K-3	NA	NA														
W4-3	NA	NA														

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





# 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:** 03-30-04  
**Project:** Vinyl Asbestos Tile & Mastic  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 500 Room: 5650 Floor: 5<sup>th</sup> 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 1	SAMPLE 2	SAMPLE 3	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	BKG/PCM	OWA/PCM	Clearance/TEM		
b. SAMPLE SUBMISSION NO.	SX040251	SX040252	SX040253		
c. TIME ON	10:15	11:40	08:25		
d. TIME OFF	11:35	13:20	10:55		
e. TOTAL TIME (In minutes)	80	100	150		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	12	8		
g. VOLUME (in liters)	1200	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	F/cc	0.0094	F/cc	0.0053	S/m <sup>2</sup>	N/D			03/30/04

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

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>04/16/04</b>	10b. FLOW RATE CALCULATIONS <b>15, 12, 8 liter/minute</b>	10c. (POST) CALI-BRATION DATE <b>03/30/04</b>	10d. FLOW RATE CALCULATIONS <b>10 liter/minute</b>
---	--	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE <b>03/30/04</b>	USE REVERSE FOR ADDITIONAL NOTES WH USING REVERSE REFER TO ITEM NO..
---	-------------------------	--

*Handwritten:* 85-409

Date: 03/30/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 03/30/04

Location: Bldg-500, RM-5650

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: Vinyl Asbestos Tile & Mastic

Quantity of ACM: 120 Sq. Feet

Abatement Type & Method(s): Wet, Scrape-up Inside Containment

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: SX040251
- 3. Perimeter: SX040252

85-410

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040253
6. VAIH Laboratory: EMS Laboratories

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: 1/2 Face North
- B. Coveralls: Yes, Tybec 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 N/A No
- B. Containment: Yes X No Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes X No No. Chambers: 1 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: Hudson Sprayer
- 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-P
- 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 5, Rooms 5650 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 03/31/04 are as follows:
- |                  |                              |                   |  |
|------------------|------------------------------|-------------------|--|
| Bldg. <u>500</u> | Floor: <u>5<sup>TH</sup></u> | Room: <u>5650</u> | <u>N.D.</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 : Kevin J. Kelly, SST 97-2293

*05-411*

DATE: April 8, 2004  
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-C47259  
B 500 R 5650 West  
REPORT NO: 93185  
DATE RECEIVED: 4/1/04 at 1000  
DATE ANALYZED: 4/1/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040253

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.

The test reports are enclosed.

Respectfully submitted.

EMS LABORATORIES, INC.

  
B. M. Koik  
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.

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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.



05-412

**SUBMITTAL FORM/Laboratory Services**

**93185**

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

RECEIVED BY Lainard  
 TIME / DATE 3/31/04

CLIENT VA GLAHS (130b)  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 3/31 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B500 R 5650 WEST  
 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 3/30 to 3/31/04  
 SAMPLE PRESERVATIVES No HOLDING TIMES None  
 NO. OF SAMPLES SENT (2+1) 3 SAMPLER'S NAME Kevin Kelly  
 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	
<u>93185.1-51</u>	<u>SX040251</u>	<u>Background/Hz</u>		<u>PCM</u>	<u>1200</u>
<u>↓ 52</u>	<u>SX040252</u>	<u>Area / Decon</u>		<u>PCM</u>	<u>1200</u>
<u>93185-53</u>	<u>SX040253</u>	<u>Clearance / Inside</u>		<u>TEM</u>	<u>1200</u>
Note: PCM STD TAT TEM Rush TAT TEM Results needed by Noon on 4/1/04					

(SF 5/00)

**FOR EM. LY**

Laboratory No. 93185 Received By [Signature] Time 10<sup>00</sup>  
 Date of Package Delivery 4-1-04 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 2+1 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 4-1-04 Misc. Info. 95-413  
 Disposition of Samples GCs W/4

# RESULTS AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 93185 ▶ Date Received 4/1/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S. ▶ Date Analyzed 4/1/04 ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> INDIRECT PREP <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>		STRUCTURE SIZE 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"/> $\geq 5 \mu\text{m}$ 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>2</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS Lower Limit	Upper Limit
-----------------------	-----------	---	----------------------------	--------------	------------------------	--------------------------------------	-------------

SX 040253      1200      -      N.D.      N.D.      0.005      0      0.02

05-414

TEM - 3A (02-04)

- "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., 1984)
- PCM equivalent range by the method described in NIOSH 7402, Issue #2, 15 August 1994.

Comments \_\_\_\_\_

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 93185  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040253  
 RECEIVED: 4/1/04 ANALYZED: 4/1/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0665  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0095  
 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.

88-415







# 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:** 93185.1      **Date Received:** 4-1-04      **Filter Type:** 25 MM MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 4-7-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLYD      **Date Sampled:** 3-30-04      **Project #:** B500 R 5650 WEST      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attaction:** BEN SPIVEY      **File Name:** 93185.1V/A-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Volume (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT.
SX040251	100	23	29	11280	1200.0	0.0094	0.0022	0.0257	0.0004
SX040252	100	13	17	6376	1200.0	0.0053	0.0022	0.0257	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      *[Signature]*  
 I.D. 2033      JEFF WAN  
 B.M. Kolk, Laboratory Director      *[Signature]*

Interlaboratory Sr is taken as D.45. Intra-laboratory Sr is 0.3  
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**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-796-5282**

95-418

**SUBMITTAL FORM** / Laboratory Services

93185.1

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

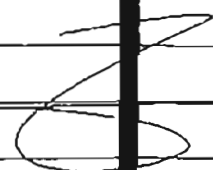
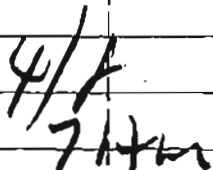
RELINQUISHED BY: Animal  
 TIME / DATE: 3/31/04

CLIENT: VA GLAHS (130b)  
 ADDRESS: 11301 WILSHIRE BLVD, BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE: [REDACTED]  
 CONTACT: BEN SPIVEY

DATE OF SHIPMENT: 3/31 CARRIER: [REDACTED]  
 CLIENT P.O. NO.: [REDACTED]  
 CLIENT JOB/PROJECT ID NO(S): B500 R 5650 WEST  
 PACKAGE SHIPPED FROM: [REDACTED]

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: 3/30 to 3/31/04  
 SAMPLE PRESERVATIVES: NO HOLDING TIMES: None  
 NO. OF SAMPLES SENT: (2+1) 3 SAMPLER'S NAME: Kevin Kelly  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER   
 SIGNATURE: [Signature] PRINTED: [REDACTED]

(FOR EMS ONLY)		VOLUME:		
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION:	ANALYSIS	TIME WEIGHT IF APPLICABLE
93185.1-51	SX040251	Background/Itan	PCM	1200
↓ 52	SX040252	Area / Decon	PCM	1200
93185-53	SX040253	Clearance / Inside	TEM	1200
		Note: PCM STD TAT TEM Rush TAT TEM Results needed by Noon on 4/1/04		
				
		4/1/04 7:15pm		
		15 mins		

Laboratory No. 93185.1 Received By: [Signature] Time: 10<sup>00</sup>  
 Date of Package Delivery: 4-1-04 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 Chain-of-Custody Signature: [Signature]  
 Date of Acceptance into Sample Bank: 4-1-04 Misc. Info.: 85-419  
 Disposition of Samples: ALL OK

FOR EMS ONLY (SF 5/00)

# ASBESTOS & LEAD PROJECTS

FY2004

## SECOND QUARTER

BLDG	ROOM/AREA	DATE
304	ROOF - HVAC	01/07/04
114	HALLWAY -P.I.	01/09/04
208	RM 118	01/23/04
265	EXT. BOILER	01/23/04
500	RM 1281E	01/29/04
211	INT. OFFICES	02/05/04
257	FM 128	02/09/04
211	EXT. STEAM LINE	02/11/04
211	EXT. STEAM LINE	02/11/04
258	RM 220	02/23/04
FQ90A	MASTER BDRM., 2 <sup>ND</sup> FLR.	02/25/04
FQ90A	BSMT.	02/26/04
FQ 90A	UPPER FRONT BEDROOM	03/01/04
FQ 90A	MASTER BEDROOM, HALL	03/01/04
206	BSMT., HALL	03/30/04
206	RM 18B	03/30/04
500	RM 5650	03/30/04

95-420

# ASBESTOS & LEAD PROJECTS

FY2004

## FIRST QUARTER

BLDG	ROOM/AREA	DATE
295	BOILER ROOM	10/06/03
115	RM 313	10/06/03
500	RM 2216 A & B	10/07/03
220	RM 15	10/14/03
300	RM 118-B	10/20/03
500	3E – POD A	10/24/03
295	BOILER & SECOND DECK	10/30/03
301	ROOF	11/05/03
114	RM 108	11/13/03
501	ROOF	11/19/03
212	RM 7	11/25/03
295	BOILER	11/26/03
500	3W – POD D	12/09/03
256	RM 16	12/10/03
256	RM 13	12/12/03
500	RM 1406	12/16/03

85-421

# ASBESTOS & LEAD PROJECTS

FY2004

## SECOND QUARTER

BLDG	ROOM/AREA	DATE
304	ROOF - HVAC	01/07/04
114	HALLWAY -P.I.	01/09/04
208	RM 118	01/23/04
265	EXT. BOILER	01/23/04
500	RM 1281E	01/29/04
211	INT. OFFICES	02/05/04
257	FM 128	02/09/04
211	EXT. STEAM LINE	02/11/04
211	EXT. STEAM LINE	02/11/04
258	RM 220	02/23/04
FQ90A	MASTER BDRM., 2 <sup>ND</sup> FLR.	02/25/04
FQ90A	BSMT.	02/26/04
FQ 90A	UPPER FRONT BEDROOM	03/01/04
FQ 90A	MASTER BEDROOM, HALL	03/01/04
206	BSMT., HALL	03/30/04
206	RM 18B	03/30/04
500	RM 5650	03/30/04

85-422