

## 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



86. West Los Angeles Asbestos & Lead Abatement Reports (fiscal 2005)

**Industrial Hygiene  
VA-WLA**

**Asbestos & Lead  
Abatement Reports  
FY 2005 VOL 1**

86-1

## 2005 1st Qtr Abatements

<u>No</u>	<u>date</u>	<u>Building</u>	<u>Room</u>	<u>Description</u>
1	10/1/2004	295	STEAM PLANT	PI Removal
2	10/4/2004	295	MAIN STEAM PLANT	Debris Removal
3	10/5/2004	295	MAIN STEAM PLANT	Procedure V Clean-up
4	10/8/2004	257	RM. 1 GRND. FLR.	ACM Removal
5	10/12/2004	304	SOUTH ROOF	Roof Abatement
6	10/13/2004	295	STEAM PLANT	PI Removal Blow/Flush Tanks
7	10/13/2004	304	RM. E3-101A	Mold Remediation
8	10/22/2004	500	2217 Patient Shower	Mold Remediation
9	10/22/2004	218	Room 320	TSI Removal
10	10/22/2004	304	1st Flr West Demolition	Demolition Monitoring
11	10/27/2004	295	Debris Cleaning	ACM Debris Clearing
12	10/29/2004	304	1st Floor West Demolition	Demolition Monitoring
13	10/29/2004	500	OR #4 Supply Room	Mold Investigation
14	10/29/2004	295	Steam Plant SW Corner	Asbestos Air Monitoring
15	11/1/2004	304	1st Floor West Central	Asbestos Air Monitoring
16	11/2/2004	304	Roof	Roof Mastic Abatement
17	11/2/2004	304	1st Floor W Central Area	Demolition Monitoring
18	11/8/2004	304	1st Floor West Demolition	Demolition Monitoring
19	11/10/2004	99 Sepul	Basement Hall	Mold Investigation
20	11/11/2004	304	1st Fir West Demolition	Demolition Monitoring
21	11/17/2005	256	R 5 Mold Remediation	Mold Remediation
22	11/18/2004	115	1st Floor Hallway	Floor Tile Abatement
23	11/19/2004	158	NE Hall Ground Floor	ACM Abatement

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24	11/23/2005	256	6A	ACM Abatement
25	11/23/2004	115	NE Hall Tunnel	Mold Remediation
26	11/29/2004	256	Room 5	Mold Remediation
27	11/30/2004	207	1st Flr East End Shower	Mold Remediation
28	12/1/2004	256	Room 12 Pipe Elbows	TSI Removal
29	12/6/2004	44	Stairs	Bulk Sampling
30	12/8/2004	304	1st Floor West Demolition	Demolition Monitoring
31	12/9/2004	500	B 500	Asbestos Survey
32	12/10/2004	99	Room 636	Mold Remediation
33	12/15/2004	113	Basement	Asbestos Survey
34	12/16/2004	304	Roof	Roof Mastic Removal
35	12/16/2004	256	Room 13	TSI/Elbow Abatement
36	12/18/2004	115	1st Floor North	ACM Abatement
37	12/29/2004	117	Room 16	Mold Remediation
	ACM Abatement	25		
	ACM Survey	3		
	LBP	0		
	Mold	9		

# 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**

d. NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE
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c. ADDRESS (Street, City, State & Zip Code)  
N/A

d. PERSONAL PROTECTIVE EQUIPMENT USED	e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)
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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:** 10/01/04  
**Project:** Emergency Monitoring  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room: South West Wing 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
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**5. SAMPLING INFORMATION**

(Fill in Sample No.)	SAMPLE 5	SAMPLE 6	
a. SAMPLE TYPE/MEDIA	PWRK/PCM	PWRK /PCM	
b. SAMPLE SUBMISSION NO.	SX040883	SX040884	
c. TIME ON	13:55	13:57	
d. TIME OFF	15:55	15:57	
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	
VOLUME (in liters)	1200	1200	

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

P = PPM   M = mg/m3   F = Fibers   C = Celling   T = Time Weighted Average			a. PERCENTAGE
			b. TYPE
Unit	F/CC	F/CC	
Result	.0088	.0053	

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
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9b. ADDRESS 117 West Bellevue Dr., Pasadena, CA 91105-2503	PAT NUMBER
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10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 10/01/04	10b. FLOW RATE CALCULATIONS 10 liter/ minute	10c. (POST) CALI-BRATION DATE 10/01/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
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11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST <del>94-1378</del> 97-223	DATE 10/01/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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- 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: 3 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes     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. 295 Floor 1st Rooms South 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 10/01/04 are as follows:
 

Bldg. <u>295</u>	Floor: <u>1st</u>	Room: <u>SW</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 Kelly, SST 94-1370

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# NIOSH FIBER COUNT (METHCO 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: 96450 Date Received: 10-4-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 10-5-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 10-1-04 Project #: EPS, STEAM PLANT Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 96450VAGLAHS.P1

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lil.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040879	100	4	5	1962	1200.0	0.0016	0.0022	0.0257	0.0004
SX040880	100	11.5	1.5	5640	1200.0	0.0047	0.0022	0.0257	0.0004
SX040881	100	1.5	2	736	1200.0	0.0006	0.0022	0.0257	0.0004
SX040882	100	5	6	2452	1200.0	0.0020	0.0022	0.0257	0.0004
SX040883	100	21.5	27	10545	1200.0	0.0088	0.0022	0.0257	0.0004
SX040884	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

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  
 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 / FAX: [REDACTED]

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# SUBMITTAL FORM *Laboratory Services*

## 96450

PAGE 1 OF 1

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

RELINQUISHED BY Kelly

TIME / DATE 10.01.04

CLIENT VA GLASS (130b)

DATE OF SHIPMENT                      CARRIER FedEx

ADDRESS 11301 WILSHIRE BLVD., BLDG 21A  
LOS ANGELES, CA 90025 RM 308

CLIENT P.O. NO.                     

TELEPHONE                     

CLIENT JOB/PROJECT ID NO(S) B295, STERN ANT MAP EVAL. REL

CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM                     

RESULTS REQUESTED VIA: VERBAL  FAX

CLIENT FAX NO.                     

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

DATE/TIME OF SAMPLE COLLECTION 10.01.04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 6 SAMPLER'S NAME                     

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  
IN SAMPLE  
CONTAINER

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS	VOLUME IN SAMPLE CONTAINER
96450-79	SX040879	DUPLICATE PREP LEV 1 / PCM	PCM 1200 L
	SX040880	DUPLICATE PREP LEV 2 / PCM	PCM 1200 L
	SX040881	DUPLICATE PREP LEV 1 / PCM	PCM 1200 L
	SX040882	DUPLICATE PREP LEV 2 / PCM	PCM 1200 L
	SX040883	DUPLICATE PREP LEV 1	PCM 1200 L
- 84	SX040884	DUPLICATE PREP LEV 2	PCM 1200 L

## 96450

Laboratory No.                      Received By [Signature] Time 7:25

Date of Package Delivery 10-04-04 Shipping Bill Retained: YES  NONE

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

No. of Samples 6 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 10-04-04 Misc. Info. [Signature]

Disposition of Samples EMS

FOR EIL ONLY (SF 5/00)

Department of Veterans Affairs

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 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:** 10-01-04  
**Project:** Steamline TSI Debris Procedure 5 Cleanup  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room : SW Catwalk Floor : Main

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
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5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	BG/PCM -GR	BKG/PCM -GR	BKG/PCM -GR	BKG/PCM -GR	BG/PCM -GR
b. SAMPLE SUBMISSION NO.	SX040879	SX040880	SX040881	SX040882	SX040883
c. TIME ON	8:30	9:00	10:30	11:00	11:30
d. TIME OFF	10:30	11:00	12:30	13:00	13:30
TOTAL TIME (In minutes)	120	120	120	120	120
e. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	10	10	10	10	10
f. VOLUME (in liters)	1200	1200	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	F/CC	F/CC	F/CC	F/CC	F/CC
Asbestos	0.0016	0.0047	0.0006	0.002	0.0088	0.0053

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 10/01/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 10/01/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293		DATE 10/01/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

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Date: 10/01/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates:

Location: Bldg-295 2<sup>nd</sup> Floor Catwalk

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: TSI & TSI Debris

Quantity of ACM: \_\_\_\_\_

Abatement Type & Method(s): Procedure V Cleanup

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 \_\_\_\_\_
- 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: SX040879 to SX040884

3. Perimeter:

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

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 \_\_\_\_\_ 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. 295, Floor Main & Catwalk, Rooms SW Boiler Area 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 10/07/04 are as follows:

Bldg. <u>295</u>	Floor: _____	Room: _____	Structures/mm <sup>2</sup>
	Floor: <u>Main</u>	Room: <u>SW Catwalk</u>	<u>ND</u> 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

# NIOSH FIBER COUNT (METHENIX) 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: 96450 Filter Area: 385  
 Client: VAGLAHS Mag: 400x  
 Address: 11301 WILSHIRE BLVD Project #: 8285 STEAM PLANT  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 9668VAGLABS-ADR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040879	100	4	5	1962	1200.0	0.0016	0.0022	0.0257	0.0004
SX040880	100	11.5	15	5640	1200.0	0.0047	0.0022	0.0257	0.0004
SX040881	100	1.5	2	736	1200.0	0.0006	0.0022	0.0257	0.0004
SX040882	100	5	6	2452	1200.0	0.0020	0.0022	0.0257	0.0004
SX040883	100	21.5	27	10545	1200.0	0.0088	0.0022	0.0257	0.0004
SX040884	100	13	17	6376	1200.0	0.0053	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. 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 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 FAX: [REDACTED]

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# SUBMITTAL FORM *Laboratory Services*

96450

PAGE     / OF    

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

RELINQUISHED BY Kelly  
 TIME / DATE 10.01.04  
 DATE OF SHIPMENT     CARRIER FedEx  
 CLIENT P.O. NO.      
 CLIENT JOB/PROJECT ID NO(S) B295, STERIL UNIT M3P ENCL. 15  
 PACKAGE SHIPPED FROM    

CLIENT VA-GLAS (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.    

DATE/TIME OF SAMPLE COLLECTION 10.01.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 6 SAMPLER'S NAME [Signature]  
 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			
96450-79	SK040879	DURING PREP BEV 1 / PCM	PCM		1200 L
	SK040880	DURING PREP BEV 2 / PCM	PCM		1200 L
	SK040881	DURING PREP BEV 1 / PCM	PCM		1200 L
	SK040882	DURING PREP BEV 2 / PCM	PCM		1200 L
	SK040883	DURING PREP BEV 1	PCM		1200 L
84	SK040884	DURING PREP BEV 2	PCM		1200 L

96450

FOR EMLY (SF 5/00)

Laboratory No.     Received By [Signature] Time 7:25  
 Date of Package Delivery 10-09-04 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt Good Condition of Custody Seal NA  
 No. of Samples 6 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 10-09-04 Misc. Info. 88-13  
 Disposition of Samples EMS

# 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**

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:** 10/04/04  
**Project:** Emergency ACM Release  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Boiler Plant

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			
a. SAMPLE TYPE/MEDIA	PWRK /PCM	PWRK /PCM			
b. SAMPLE SUBMISSION NO.	SX040885	SX040886			
c. TIME ON	8:45	8:50			
d. TIME OFF	11:30	11:30			
e. TOTAL TIME (in minutes)	165	160			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10			
VOLUME (in liters)	1650	1600			

**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	F/CC			
Result	.0022	.0020			

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

11. NAME & JOB TITLE (Person Performing Sampling) Ted Davis, SST 94-1378	DATE 10/04/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-14

Date: 10/04/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates: 10/04/04

Location: Bldg. 295 Boiler Plant

Abatement Company: Unlimited Environmental Inc. Phone Number: ██████████

Abatement Supervisor: Mauricio

Type of ACM: TSI

Quantity of ACM: <100

Abatement Type & Method(s): Wet & Scrape/ Bag-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 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: 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: SX040885-86
3. Perimeter: \_\_\_\_\_
4. Inside Work Area: \_\_\_\_\_

*86-15*



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: 3 Shower: Yes      No X

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

E. Neg. Air/HEPA Filtration Used: Yes      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 APD 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. 295 Boiler Plant 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 10/04/04 are as follows:

Bldg. <u>295</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>    </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: Ted Davis, SST 94-1378

86-16

# 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:** 96516      **Date Received:** 10-6-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 10-12-04      **Magn:** 400x      **Field Area:** 0.08785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 10-4-04      **Project #:** B295      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 96516VAGLAHS.ADR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol(Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040885	100	7.5	10	3678	1650.0	0.0022	0.0016	0.0187	0.0003
SX040886	100	6.5	8	3188	1600.0	0.0020	0.0017	0.0193	0.0003

WV

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      B.M. Koik, Laboratory Director  
 I.D. 2033      Jeff Wan  
 I.D. 3276      S. Ahmad

Interlaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
**EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / 626-568-4065 / FAX: 626-568-4066**

86-17

**SUBMITTAL FORM/Laboratory Services**

96516

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

RELINQUISHED BY T. DAVIS

CLIENT VA-GLAHS (130b)

TIME / DATE 10.04.04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_

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

CLIENT JOB/PROJECT ID NO(S) B295 / Proc. 5 / PSEP

RESULTS REQUESTED VIA VERBAL  FAX

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

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

DATE/TIME OF SAMPLE COLLECTION 10.04.04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 2 SAMPLER'S NAME \_\_\_\_\_

SIGNATURE [Signature] PRINTED T. DAVIS

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 & APPLICABLE
96516-885	SK040 885	BWA/DECON/PSEP Proc 5		PCM	1650L
↓ 886	SK040 886	LWA/CATALAN/PSEP Proc 5		PCM	1600L
/					

(SF 5/00)

Laboratory No. 96516 Received By [Signature] Time 5:30

Date of Package Delivery 10/6/04 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 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 10/6/04 Misc. Info. [Signature]

Disposition of Samples EMS LABS

# 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	b. SSN N/A	c. JOB TITLE

d. 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:** 10/05/04  
**Project:** Removal of ACM TSI from H.P. Steamlines  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room: Steam Plant 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	PWRK/PCM	PWRK/PCM	PWRK/PCM	PWRK/PCM	
b. SAMPLE SUBMISSION NO.	SX040887	SX040888	SX040889	SX040890	
c. TIME ON	08:05	08:00	10:00	10:05	
d. TIME OFF	10:05	10:00	12:00	12:05	
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	
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					a. PERCENTAGE
					b. TYPE
Unit	F/CC	F/CC	F/CC	F/CC	
Result	.024	.0039	.0047	.0439	

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 10/05/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 10/05/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 10/05/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-19

# AIR SAMPLING DATA

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

### 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:** 10/05/04  
**Project:** Removal of ACM TSI from H.P. Steamlines  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room: Steam Plant 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 5	SAMPLE 6	SAMPLE 7	SAMPLE 8
a. SAMPLE TYPE/MEDIA	PWRK/PCM	PWRK/PCM	PWRK/PCM	PWRK/PCM
b. SAMPLE SUBMISSION NO.	SX040891	SX040892	SX040893	SX040894
c. TIME ON	12:00	12:05	14:00	14:05
d. TIME OFF	14:00	14:05	16:00	16:05
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
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				
				a. PERCENTAGE
				b. TYPE
Unit	F/CC	F/CC	F/CC	F/CC
Result	.0025	.035	.0020	.0029

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) CALIBRATION DATE 10/01/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALIBRATION DATE 10/05/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 10/05/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-20

Date: 10/05/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 10/05/04

Location: Bldg. 295, Steam Plant

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

Abatement Supervisor: Mauricio

Type of ACM: TSI

Quantity of ACM: <100 feet

Abatement Type & Method(s): Wet & Bag-up 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: N/A 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: SX040887-94
- 3. Perimeter: \_\_\_\_\_

86221

- 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: 3 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes     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. 295 Steam Plant 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 10/05/04 are as follows:

Bldg. <u>295</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>   </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 Kelly, SST 97-2293

86-22

# 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 to 20 to 100 fields)

**Report No:** 96517      **Date Received:** 10-6-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 10-12-04      **Mag:** 600x      **Field Area:** 8.067564cm<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 10-5-04      **Project #:** B295      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Alert/Ann:** B SPIVEY      **File Name:** S51VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040887	100	59	75	28936	1200.0	0.024	0.0022	0.0257	0.0004
SX040888	100	9.5	12	4659	1200.0	0.0039	0.0022	0.0257	0.0004
SX040889	100	11.5	15	5640	1200.0	0.0047	0.0022	0.0257	0.0004
SX040890	93	100	137	52736	1200.0	0.0439	0.0022	0.0257	0.0004
SX040891	100	6	8	2943	1200.0	0.0025	0.0022	0.0257	0.0004
SX040892	100	85	108	41688	1200.0	0.035	0.0022	0.0257	0.0004
SX040893	100	5	6	2452	1200.0	0.0020	0.0022	0.0257	0.0004
SX040894	100	7	9	3433	1200.0	0.0029	0.0022	0.0257	0.0004

ANL SENT - ANALYTICAL SENSITIVITY (1 FIBER/100)

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

LOQ - LIMIT OF QUANTIFICATION (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    SAHMAD



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 / FAX: [REDACTED]



# SUBMITTAL FORM/Laboratory Services

# 96517

PAGE: 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.  < 1 HR. WKND  OTH:

RELINQUISHED BY KEELY

TIME / DATE 10.05.04

CLIENT VA-GLASS (130b)

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_

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

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

TELEPHONE \_\_\_\_\_

CLIENT JOB/PROJECT ID NO(S) B295 / H.P. STEAMLINE (APARTMENT)

CONTACT BEN SPIVEY

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

RESULTS REQUESTED VIA VERBAL  FAX

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

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

DATE/TIME OF SAMPLE COLLECTION 10-05-04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 8 SAMPLER'S NAME KEELY

SIGNATURE [Signature] PRINTED KEELY

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
96517-887	SX040887	DECON / CATWALK	PCM 1200L
888	SX040888	DWA / BY OFFICE 1 <sup>ST</sup> LEVEL	
889	SX040889	DWA / BY OFFICE 1 <sup>ST</sup> LEVEL	
890	SX040890	DECON / CATWALK	
891	SX040891	DWA / BY OFFICE 1 <sup>ST</sup> LEVEL	
892	SX040892	DECON / CATWALK	
893	SX040893	DWA / BY OFFICE 1 <sup>ST</sup> LEVEL	
894	SX040894	DECON / CATWALK	

(SF 5/00)

ONLY

FOI

Laboratory No. 96517

Received By WA Time 5:30

Date of Package Delivery 10/6/04

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 8

Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 10/6/04

Misc. Info. [Signature]

Disposition of Samples EMS LABS

86-24

Department of Veterans Affairs

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 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: 10-05-04**  
**Project: Steamline TSI Debris Procedure 5 Cleanup**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 295 Room : SW Catwalk Floor : Main**

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	SAMPLE	SAMPLE 5			
a. SAMPLE TYPE/MEDIA								
b. SAMPLE SUBMISSION NO.	SX040887	SX040888	SX040889	SX040890	SX040891	SX040892	SX040893	SX040894
c. TIME ON	8:30	9:00	10:30	11:00	11:30	12:00	12:30	13:00
d. TIME OFF	10:30	11:00	12:30	13:00	13:30	14:00	14:30	15:00
e. TOTAL TIME (In minutes)	120	120	120	120	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	10	10	10	10
g. VOLUME (in liters)	1200	1200	1200	1200	1200	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	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC
Asbestos	0.024	0.0039	0.0047	0.0439	0.0025	0.035	0.0020	0.0029

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 Dr., Pasadena, CA 91105-2503	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 10/05/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 10/05/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin J. Kelly, SST 97-2293</b>	DATE 10/05/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-25

Date: 10/05/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates:

Location: Bldg-295 2<sup>nd</sup> Floor Catwalk

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: TSI & TSI Debris

Quantity of ACM: \_\_\_\_\_

Abatement Type & Method(s): Procedure V Cleanup

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 \_\_\_\_\_
- 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: SX040887 to SX040894

3. Perimeter:

86-26

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

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 \_\_\_\_\_ 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. 295, Floor Main & Catwalk, Rooms SW Boiler Area 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 10/07/04 are as follows:

Bldg. <u>295</u>	Floor: _____	Room: _____	Structures/mm <sup>2</sup>
	Floor: <u>Main</u>	Room: <u>SW Catwalk</u>	<u>ND</u> 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

86-27

# 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: 96517 Filter Area: 385  
 Client: VAGLAHS Filter Type: MCE  
 Address: 11301 WILSHIRE BLVD Mag: 400x Field Area: 0.00785MM  
LOS ANGELES, CA 90073 Project #: B295 Filter Size: 25MM  
 Attention: B SPIVEY File Name: 96517VAGLABSAR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (L/L)	Fibers/CC	LOD	LOQ	ANL SENT
SX040887	100	59	75	28936	1200.0	0.024	0.0022	0.0257	0.0004
SX040888	100	9.5	12	4659	1200.0	0.0039	0.0022	0.0257	0.0004
SX040889	100	11.5	15	5640	1200.0	0.0047	0.0022	0.0257	0.0004
SX040890	93	100	137	52736	1200.0	0.0439	0.0022	0.0257	0.0004
SX040891	100	6	8	2943	1200.0	0.0025	0.0022	0.0257	0.0004
SX040892	100	85	108	41688	1200.0	0.035	0.0022	0.0257	0.0004
SX040893	100	5	6	2452	1200.0	0.0020	0.0022	0.0257	0.0004
SX040894	100	7	9	3433	1200.0	0.0029	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 SAHMAD

*Carl Bergman*

B.M. Kojk, Laboratory Director *B.M. Kojk*

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 // FAX: [REDACTED]

86-28

**SUBMITTAL FORM / Laboratory Services**

96517

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

RELINQUISHED BY KELLY  
 TIME / DATE 10.05.04  
 DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B295 / H.P. STEAMLINE  
 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 10-05-04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 8 SAMPLER'S NAME [Signature] / KICELEY  
 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
96517-887	SX040887	DECON / CATWALK		PCM	1200L
888	SX040888	OWA / BY OFFICE 1 <sup>ST</sup> LEVEL			
889	SX040889	OWA / BY OFFICE 1 <sup>ST</sup> LEVEL			
890	SX040890	DECON / CATWALK			
891	SX040891	OWA / BY OFFICE 1 <sup>ST</sup> LEVEL			
892	SX040892	DECON / CATWALK			
893	SX040893	OWA / BY OFFICE 1 <sup>ST</sup> LEVEL			
894	SX040894	DECON / CATWALK			

FOR EMLY (SF 5/00)

96517

Laboratory No. \_\_\_\_\_ Received By [Signature] Time 5:30  
 Date of Package Delivery 10/6/04 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt DIC 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 8 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10/6/04 Misc. Info. [Signature]  
 Disposition of Samples EMS LABS

# 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:** 10/06/04  
**Project:** ACM Debris Release  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room: South 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 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	PWRK/PCM	PWRK /PCM	PWRK /PCM	PWRK /PCM	
b. SAMPLE SUBMISSION NO.	SX040900	SX040901	SX040902	SX040903	
c. TIME ON	21:30	21:32	23:30	23:32	
d. TIME OFF	23:30	23:32	01:30	01:32	
e. TOTAL TIME (in minutes)	120	120	120	120	
f. FLOW RATE <input checked="" type="checkbox"/> l <sup>3</sup> /min, <input type="checkbox"/> m <sup>3</sup> /min	10	10	10	10	
VOLUME (in liters)	1200	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	F/CC	F/CC	F/CC	
Result	N/a	.0027	.0310	N/a	

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 10/06/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 10/06/04	10d. FLOW RATE CALCULATIONS 10 liter/minute

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 10/06/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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86-30

# AIR SAMPLING DATA

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

**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:** 10/06/04  
**Project:** ACM Debris Release  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room: South 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 5	SAMPLE 6	SAMPLE 6	SAMPLE 6
a. SAMPLE TYPE/MEDIA	PWRK/PCM	PWRK /PCM	PWRK /PCM	PWRK /PCM
b. SAMPLE SUBMISSION NO.	SX040904	SX040905	SX040906	SX040907
c. TIME ON	02:00	02:02	04:00	04:02
d. TIME OFF	04:00	04:02	06:00	06:02
e. TOTAL TIME (in minutes)	120	120	120	120
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m/min	10	10	10	10
VOLUME (in liters)	1200	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	F/CC		
Result	.0018	.0029	.0018	.0012

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 10/06/04	10b. FLOW RATE CALCULATIONS 10 liter/ minute	10c. (POST) CALI-BRATION DATE 10/06/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	---	---	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 10/06/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-31



Date: 10/06/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 10/06/04

Location: Bldg. 295, South West Wing

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

Abatement Supervisor: Mauricio Fajardo

Type of ACM: TSI

Quantity of ACM: 2500 sF

Abatement Type & Method(s): Wet Wiping/ Vacuuming & Bag-up 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: N/A 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: SX040900-07
  - 3. Perimeter: \_\_\_\_\_

86-32

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: 3 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes     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. 295 Rooms South 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 10/06/04 are as follows:
- |                  |                   |                  |                                       |
|------------------|-------------------|------------------|---------------------------------------|
| Bldg. <u>295</u> | Floor: <u>   </u> | Room: <u>SW</u>  | <u>   </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 Kelly, SST 97-2293

86-33

# NIOSH FIBER COUNT (METH 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:** 96553 **Date Received:** 10-8-04 **Filter Type:** MCE **Filter Area:** 385  
**Client:** VAGLABS **Date Analyzed:** 10-13-04 **Mag:** 400x **Field Area:** 0.80783MM  
**Address:** 11301 WILSHIRE BLVD **Date Sampled:** 1/6, 7/04 **Project #:** B295 **Filter Size:** 25MM  
 LOS ANGELES, CA 90073 **Attention:** B SPIVEY **File Name:** 9655VAGLABS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL/SENT
SX040900	OVERLOADED				1250.0	N.A.			
SX040901	100	7	9	3433	1250.0	0.0027	0.0022	0.0246	0.0004
SX040902	100	79	101	38745	1250.0	0.0310	0.0022	0.0246	0.0004
SX040903	OVERLOADED				1250.0	N.A.			
SX040904	100	4.5	6	2207	1250.0	0.0018	0.0022	0.0246	0.0004
SX040905	100	7.5	10	3678	1250.0	0.0029	0.0022	0.0246	0.0004
SX040906	100	4.5	6	2207	1250.0	0.0018	0.0022	0.0246	0.0004
SX040907	100	3	4	1471	1250.0	0.0012	0.0022	0.0246	0.0004

ANL/SENT = ANALYTICAL SENSITIVITY (1 FIBER/100)

N.A. = NOT AVAILABLE N.D. = NONE DETECTED

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

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

ALPHA Registered Asbestos Analyst

I.D. 7795 CARL BERGMAN

I.D. 2033 JEFF WAN

I.D. 3276 SAHMAD

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 / FAX: [REDACTED]

86-35

# SUBMITTAL FORM/Laboratory Services

96553

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
TIME / DATE 10.07.04

CLIENT VA-GLASS (1306)  
ADDRESS 11301 WILSHIRE BLVD., BLDG 218  
LOS ANGELES, CA 90025 RM 308  
TELEPHONE [REDACTED]  
CONTACT BEN SPIVEY

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) B295 / PHASE 5 SWC PLANT  
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 10.06.04 / 10.07.04  
SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
NO. OF SAMPLES SENT 8 SAMPLE'S NAME [REDACTED]  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

SIGNATURE [REDACTED] PRINTED KELLY

(FOR EMS ONLY)  
EMS Sample No.  
96553-900  
901  
902  
903  
904  
905  
906  
907

CLIENT SAMPLE NO	DESCRIPTION/LOCATION	ANALYSIS	VOLUME	TIME OF CONT
<u>SX040900</u>	<u>OWA/BY OFFICE 15 FL</u>	<u>PCM</u>	<u>1250L</u>	
<u>SX040901</u>	<u>IWA/CATWALK DECON</u>			
<u>SX040902</u>	<u>OWA/BY OFFICE 15 FL</u>			
<u>SX040903</u>	<u>IWA/CATWALK DECON</u>			
<u>SX040904</u>	<u>OWA/BY OFFICE 15 FL</u>			
<u>SX040905</u>	<u>IWA/CATWALK DECON</u>			
<u>SX040906</u>	<u>OWA/BY OFFICE 15 FL</u>			
<u>SX040907</u>	<u>IWA/CATWALK DECON</u>			

96553

Laboratory No. \_\_\_\_\_  
Date of Package Delivery 10/8/04  
Condition of Package on Receipt OK  
No. of Samples 8  
Date of Acceptance into Sample Bank 10/8/04  
Disposition of Samples EMS LABS

Received By VAA Time 8:00  
Shipping Bill Retained: YES  NONE   
Condition of Custody Seal \_\_\_\_\_  
Chain-of-Custody Signature \_\_\_\_\_  
Misc. Info. \_\_\_\_\_

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

FOR E NLY (SF 5/00)

Department of Veterans Affairs

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: 10-06-04**  
**Project: Steamline TSI Removal**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 295 Room : SW Catwalk Floor : Main**

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	OWA/PCM	Decon/PCM	OWA/PCM	Decon/PCM	IWA/TEM
b. SAMPLE SUBMISSION NO.	SX040895	SX040896	SX040897	SX040898	SX040899
c. TIME ON	08:30	9:50	10:50	11:30	12:30
d. TIME OFF	10:30	11:50	12:50	13:30	14:30
TOTAL TIME (In minutes)	120	120	120	120	120
FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> CF/min	10	10	10	10	10
g. VOLUME (in liters)	1200	1200	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	F/CC	F/CC	F/CC	S/mm <sup>2</sup>
Asbestos	0.0037	0.163	0.013	0.110	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 Dr., Pasadena, CA 91105-2503	PAT NUMBER
10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)	

10a. (PRE) CALI- BRATION DATE 10/06/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 10/06/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293		DATE 10/06/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..

86-36

Date: 10/06/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates:

Location: Bldg-295 2<sup>nd</sup> Floor Catwalk

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: TSI & TSI Debris

Quantity of ACM: \_\_\_\_\_

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 \_\_\_\_\_
- 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: SX040895

86-37

- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040899
- 6. VAIH Laboratory: EMS Laboratories

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     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. 295, Floor Main & Catwalk, Rooms SW Boiler Area 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 10/16/04 are as follows:

Bldg. <u>295</u>	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u> Structures/mm <sup>2</sup>
	Floor: <u>Main</u>	Room: <u>SW Catwalk</u>	<u>ND</u> Structures/mm <sup>2</sup>
	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u> fibers/cc
	Floor: <u>   </u>	Room: <u>   </u>	<u>ND</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:** 96515      **Date Received:** 10-6-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analysed:** 10-12-04      **Mag:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 10-6-04      **Project #:** OFFICE      **Filter Size:** 25MM  
LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 96515VAGLAHS.ADR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol. (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040895	100	9	11	4414	1200.0	<b>0.0037</b>	0.0022	0.0257	0.0004
SX040896	25	100	510	196178	1200.0	<b>0.163</b>	0.0022	0.0257	0.0004
SX040897	100	31	39	15204	1200.0	<b>0.013</b>	0.0022	0.0257	0.0004
SX040898	38	102	342	131646	1200.0	<b>0.110</b>	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. 7795      Carl J. Bergman      B.M. Kolk, Laboratory Director  
 I.D. 2033      Jeff Wan  
 I.D. 3276      S.AHMAD

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 / [REDACTED] / FAX: [REDACTED]**

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# SUBMITTAL FORM/Laboratory Services

# 96515

PAGE 1 of 1

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

RELINQUISHED BY KELLY TIME / DATE 10-06-04

CLIENT VA GLASS (130b) DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_

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

LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). \_\_\_\_\_

TELEPHONE \_\_\_\_\_ 3295, STEAM PLANT

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

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_

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

DATE/TIME OF SAMPLE COLLECTION 10.06.04

SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A

NO. OF SAMPLES SENT 5 SAMPLER'S NAME [Signature] PRINTED K Kelly

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

(FOR EMS ONLY)				CLIENT SAMPLE NO	DESCRIPTION, LOCATION, ANALYSIS	QUANTITY
EMS Sample No.						
96515-895	5X040895	OWA/ BY OFFICE 1 <sup>ST</sup> LEVEL	PCM		1200 L	
↓ 896	5X040896	DECK/ CATWALK	↓		↓	
↓ 897	5X040897	OWA/ BY OFFICE 1 <sup>ST</sup> LEVEL	↓		↓	
↓ 898	5X040898	DECK/ CATWALK	↓		↓	
96515.1-899	5X040899	CLEARANCE/ W/A	TEM		↓	

*Please test remaining samples immediately for reading. Please call vendor results ASAP to Kelly at 918-723-2151*

FOI (SF 5/00)

Laboratory No. 96515 Received By VAA Time 5:28

Date of Package Delivery 10/6/04 Shipping B/M 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 PCM / ITEM Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 10/5/04 Misc. Info. \_\_\_\_\_

Disposition of Samples EMS LABS

86-40

DATE: October 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-C40433  
REPORT NO: 96515.1  
DATE RECEIVED: 10/6/04 at 1728  
DATE ANALYZED: 10/6/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040899

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.

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# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96545-1  
 ▶ Client VA GLAHS  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/6/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/6/04 ▶ 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
SX040899	1200	N.D.	N.D.	0	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 \_\_\_\_\_


**EMS LABORATORIES**

117 West Bellevue Drive / Pasadena, CA 91105-2503 / Fax: \_\_\_\_\_

TEM ASBESTOS AIR REPORT

CLIENT: VA-GLAHS  
 EMS NO: 96515.1  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX040899  
 RECEIVED: 10/6/04 ANALYZED: 10/6/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0685  
 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.

86-43

# TEM ASBESTOS ANALYSIS

EMS Lab No. 165511  
 Client VA-66AAS  
 Sample No. SX040899

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

**LENGTHS**  
 All Sizes (EPA)   
 ( $\mu\text{m}$ ) :  $\geq 0.5$    
 ( $\mu\text{m}$ ) :  $> 5.0$    
 ( $\mu\text{m}$ ) :  $> 10.0$    
 PCM Range\*  
 ( $> 0.25 \mu\text{m}$  width,  $> 50 \mu\text{m}$  length)

## RECEIVING

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

**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>) 0.0  
 No. of G.O. to Analyze 875

## PREP

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 100  $\mu\text{m}$   
 Working Volume 50  $\mu\text{m}$   
 Weight 100  $\mu\text{g}$   
 Ashed Area 10 %

Date 10-6-04  
 Prepared By llh

## ANALYSIS

Grid Address A  
 Screen Magnification 1700 X  
 Camera Constant 384  
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu\text{A}$

Analyst C. G. ... Date 10-6-04

Page 1 of 1

MICROSCOPE

H600A - Serial No. 542-36-01   
 H600B - Serial No. 542-05-08   
 H600C - Serial No. 542-24-03

**A**

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Anthracite	Amblygonite	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
<u>641 US1</u>																
<u>641 US2</u>																
<u>641 US3</u>																
<u>641 US4</u>																

16 Lines

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

Very Heavy   
 Heavy   
 Moderate   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded

Moderate   
 Moderate   
 Undissolved Filter

Light   
 Light   
 Scrappy

Very Light   
 Very Light   
 Good



EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503 •

TEM ASBESTOS ANALYSIS

EMS Lab No. 6515  
 Client VA 66AHS  
 Sample No. 8X640899

RECEIVING

Page 1 of 1  
 MICROSCOPE

Grid Address B3 H600A - Serial No. 542-36-01   
 Screen Magnification 1900x XH600B - Serial No. 542-05-06   
 Camera Constant 28.44 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu$ A

ANALYSIS

Analyst C. Crow Date 10-6-04

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
H53	1	1															
G50	2	2															
G50	3	3															
G50	4	4															
G50	5	5															
G50	6	6															
G50	7	7															
G50	8	8															
G50	9	9															
G50	10	10															
G50	11	11															
G50	12	12															
G50	13	13															
G50	14	14															
G50	15	15															
G50	16	16															

16 Lines

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

Department of Veterans Affairs

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:** 10-06-04 Day Shift  
**Project:** Steamline TSI Debris Procedure 5 Cleanup  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room : SW Catwalk Floor : Main

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.)								
a. SAMPLE TYPE/MEDIA	SX040900	SX040901	SX040902	SX040903	SX040904	SX040905	SX040906	SX040907
b. SAMPLE SUBMISSION NO.	8:30	9:00	10:30	11:00	11:30	12:00	12:30	13:00
c. TIME ON	10:30	11:00	12:30	13:00	13:30	14:00	14:30	15:00
d. TIME OFF	120	120	120	120	120	120	120	120
TOTAL TIME (In minutes)	10	10	10	10	10	10	10	10
FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> CCF/min	1200	1200	1200	1200	1200	1200	1200	1200
g. VOLUME (in liters)								

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	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC
Asbestos	NA	0.0027	0.0310	NA	0.0018	0.0029	0.0018	0.0012

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 10/06/04 Day	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 10/06/04 Day	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293	DATE 10/06/04 Day	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	----------------------	--

86-46

Date: 10/06/04 Day  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates:

Location: Bldg-295 2<sup>nd</sup> Floor Catwalk

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: TSI & TSI Debris

Quantity of ACM: \_\_\_\_\_

Abatement Type & Method(s): Procedure V Cleanup

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 \_\_\_\_\_
- 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: SX040900 to SX040907

3. Perimeter:

*Pl-43*



4. Inside Work Area: \_\_\_\_\_

5. Clearance: \_

6. VAIH Laboratory: EMS Laboratories

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 \_\_\_ 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. 295, Floor Main & Catwalk, Rooms SW Boiler Area 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 10/07/04 are as follows:

Bldg. <u>295</u>	Floor: ___	Room: ___	Structures/mm <sup>2</sup>
	Floor: <u>Main</u>	Room: <u>SW Catwalk</u>	<u>ND</u> 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

# 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:** 96553      **Date Received:** 10-8-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLABS      **Date Analyzed:** 10-13-04      **Mfg:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 1/6,7/04      **Project #:** B295      **Filter Size:** 25MM  
LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 96553VAGLABS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/ Sq.mm	Fiber/Filter	Vol.(Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040900	OVERLOADED				1250.0	N.A.			
SX040901	100	7	9	3433	1250.0	0.0027	0.0022	0.0246	0.0004
SX040902	100	79	101	38745	1250.0	0.0310	0.0022	0.0246	0.0004
SX040903	OVERLOADED				1250.0	N.A.			
SX040904	100	4.5	6	2207	1250.0	0.0018	0.0022	0.0246	0.0004
SX040905	100	7.5	10	3678	1250.0	0.0029	0.0022	0.0246	0.0004
SX040906	100	4.5	6	2207	1250.0	0.0018	0.0022	0.0246	0.0004
SX040907	100	3	4	1471	1250.0	0.0012	0.0022	0.0246	0.0004

LOD = LIMIT OF DETECTION (1 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 Carl Bergman      B.M. Kolk, Laboratory Director B.M. Kolk  
 I.D. 7795      CARL BERGMAN  
 I.D. 2033      JEFF WAN  
 I.D. 3276      S.AHMAD

Interlaboratory Sr is taken as 0.45 (Intralaboratory Sr is 0.3)  
 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 / FAX: [REDACTED]**

86-49

# SUBMITTAL FORM / Laboratory Services

96553

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

RELINQUISHED BY KEYUP  
 TIME / DATE 10.07.04

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

DATE OF SHIPMENT  CARRIER   
 CLIENT P.O. NO.   
 CLIENT JOB/PROJECT ID NO(S) B295 / PHASE 5 SWC PLANT  
 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 10.06.04 / 10.07.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 8 SAMPLER'S NAME [Signature] PRINTED KEYUP  
 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 / ANALYSIS
96553-900	5X040900	DWA/BY OFFICE	1 <sup>st</sup> FL	PCM	1250L
901	5X040901	LWA/CATWALK	DECON		
902	5X040902	DWA/BY OFFICE	1 <sup>st</sup> FL		
903	5X040903	LWA/CATWALK	DECON		
904	5X040904	DWA/BY OFFICE	1 <sup>st</sup> FL		
905	5X040905	LWA/CATWALK	DECON		
906	5X040906	DWA/BY OFFICE	1 <sup>st</sup> FL		
907	5X040907	LWA/CATWALK	DECON		

(SF 5/00)

96553

Laboratory No. 96553 Received By VMA Time 8:00  
 Date of Package Delivery 10/8/04 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal

No. of Samples 8 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 10/8/04 Misc. Info. 88-50  
 Disposition of Samples EMS LABS

FOR EM ILY

Department of Veterans Affairs

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
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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:** 10-07-04 Day Shift  
**Project:** Steamline TSI Debris Procedure V Cleanup  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room : SW Catwalk Floor : Main

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.)							
a. SAMPLE TYPE/MEDIA	SX040908	SX040909	SX040910	SX040911	SX040912	SX040913	
b. SAMPLE SUBMISSION NO.	8:30	9:00	10:30	11:00	11:30	12:00	
c. TIME ON	10:30	11:00	12:30	13:00	13:30	14:00	
d. TIME OFF	120	120	120	120	120	120	
TOTAL TIME (In minutes)	10	10	10	10	10	10	
FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	1200	1200	1200	1200	1200	1200	
g. VOLUME (In liters)							

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	F/CC	F/CC	F/CC	F/CC	F/CC	
Asbestos	0.0033	0.018	0.0017	0.019	0.0070	0.0236	

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 10/07/04 Day	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 10/07/04 Day	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) Ted Davis, CAC #94-1378	DATE 10/07/04 Day	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
--	----------------------	--

86-51

Date: 10/07/04 Day  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates:

Location: Bldg-295 2<sup>nd</sup> Floor Catwalk

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: TSI & TSI Debris

Quantity of ACM: \_\_\_\_\_

Abatement Type & Method(s): Procedure V Cleanup

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 \_\_\_\_\_
- 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: SX040908 to SX040913

3. Perimeter:

86-52

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

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 \_\_\_ 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. 295, Floor Main & Catwalk, Rooms SW Boiler Area 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 10/07/04 are as follows:

Bldg. <u>295</u>	Floor: ___	Room: ___	Structures/mm <sup>2</sup>
	Floor: <u>Main</u>	Room: <u>SW Catwalk</u>	<u>ND</u> 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

# 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: 96552 Date Received: 10-8-04 Filter Type: MCE Filter Area: 365  
 Client: VAGLAHS Date Analysed: 10-13-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 10-7-04 Project #: B295 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 96552VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT
SX040908	100	8.5	11	4169	1250.0	0.0033	0.0022	0.0246	0.0004
SX040909	100	46	59	22561	1250.0	0.018	0.0022	0.0246	0.0004
SX040910	100	5	6	2452	1450.0	0.0017	0.0019	0.0212	0.0003
SX040911	100	56	71	27465	1450.0	0.019	0.0019	0.0212	0.0003
SX040912	100	18.5	24	9073	1300.0	0.0070	0.0021	0.0237	0.0004
SX040913	100	62.5	80	30653	1300.0	0.0236	0.0021	0.0237	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 F. ... 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 / FAX: [REDACTED]

86-54

**SUBMITTAL FORM/Laboratory Services**

96552

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

RELINQUISHED BY T. DAVIS  
 TIME / DATE \_\_\_\_\_

CLIENT VA-GLABS (130b)  
 ADDRESS 11301 WILSHIRE BLVD., BLDG 210  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE \_\_\_\_\_  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 10-8 CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S). B295, EMERGENCY CLEAN-UP  
 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 10-7 / 0630-1530  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 6 SAMPLER'S NAME T. DAVIS  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER Pen

(FOR EMS ONLY)	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME WEIGHT
EMS Sample No.					APPLICABLE	
96552-908	5X040908	B295, OWA @	DECON/OFFICE	- 1250		
909	5X040909	"	1WA @ 2 <sup>ND</sup> LEVEL	- 1250		
910	5X040910	"	1WA @ 2 <sup>ND</sup> LEVEL	- 1450		
911	5X040911	"	OWA @ DECON/OFFICE	- 1450		
912	5X040912	"	1WA @ 2 <sup>ND</sup> LEVEL	- 1300		
913	5X040913	"	OWA @ DECON/OFFICE	- 1300		

96552

FOR EM VLY (SF 5/00)

Laboratory No. \_\_\_\_\_ Received By VVA Time 8:00  
 Date of Package Delivery 10/8/04 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 6 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10/8/04 Misc. Info. \_\_\_\_\_  
 Disposition of Samples EMS LABS



Department of Veterans Affairs

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)

b. 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:** 10-07-04  
**Project:** Steamline TSI Debris Procedure 5 Cleanup  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room: SW Catwalk Floor: Main

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	Catwalk/TEM	1 <sup>st</sup> Flr/TEM	CL/TEM	OWA/TEM	Bik/TEM
b. SAMPLE SUBMISSION NO.	SX040924	SX040925	SX040926	SX040927	SX040928
c. TIME ON	21:00	21:05	21:07	21:10	
d. TIME OFF	23:00	23:05	23:07	23:10	
TOTAL TIME (In minutes)	120	120	120	120	
LOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> CC/min	10	10	10	10	
g. VOLUME (in liters)	1200	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	S/mm <sup>2</sup>	S/mm <sup>2</sup>	S/mm <sup>2</sup>	S/mm <sup>2</sup>	S/mm <sup>2</sup>
Asbestos	ND	ND	30	45	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 Dr., Pasadena, CA 91105-2503	PAT NUMBER
---	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE 10/07/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALIBRATION DATE 10/07/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293	DATE 10/07/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
--	------------------	--

pg-56

Date: 10/07/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates:

Location: Bldg-295 2<sup>nd</sup> Floor Catwalk

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: TSI & TSI Debris

Quantity of ACM: \_\_\_\_\_

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

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- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040924 to SX040927
- 6. VAIH Laboratory: EMS Laboratories

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     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. 295, Floor Main & Catwalk, Rooms SW Boiler Area 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 10/07/04 are as follows:  
 Bldg. 295 Floor:     Room:     Structures/mm<sup>2</sup>  
 Floor: Main Room: SW Catwalk ND Structures/mm<sup>2</sup>  
 Floor:     Room:     fibers/cc  
 Floor:     Room:     ND fibers/cc

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

DATE: October 14, 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-C40433  
B295  
REPORT NO: 96550  
DATE RECEIVED: 10/8/04 at 0725  
DATE ANALYZED: 10/8/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY  
The samples were identified as: SX040924 to SX040927

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.

86-59

# RESULTS OF AIR FILTER ANALYSIS by TEM from Airborne Structures

▶ EMS Laboratory No. 96550  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/8/00 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/8/00 ▶ 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	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit
SX 040924	1200	-	N.D.	N.D.	0.005	0	0.02
SX 040925	1200	-	N.D.	N.D.	0.005	0	0.02
SX 040926	1200	-	30	0.01	0.005	0.001	0.03
SX 040927	1200	-	45	0.01	0.005	0.003	0.04

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.

**SUBMITTAL FORM/Laboratory Services**

**96550**

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

RELINQUISHED BY Kelly  
 TIME / DATE 10.07.04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER Drop b  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S). B255, PROCEDURE 5, CLEANERS  
 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 10.07.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 5 SAMPLER'S NAME [Signature] K Kelly  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)				VOLUME
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS
<u>96550-4</u>	<u>SX040924</u>	<u>CLEANERS/CATALAN</u>	<u>4th fl</u>	<u>TEM</u>
<u>-5</u>	<u>SX040925</u>	<u>CLEANERS</u>	<u>1st Floor</u>	<u>↓</u>
<u>-6</u>	<u>SX040926</u>	<u>CLEANERS</u>	<u>below H.P. LINES</u>	<u>↓</u>
<u>-7</u>	<u>SX040927</u>	<u>CLEANERS</u>	<u>vertical valves</u>	<u>↓</u>
<u>-8</u>	<u>SX040928</u>	<u>FIELD BLANK</u>	<u>1st Floor</u>	<u>↓</u>
			<u>BY OFFICE</u>	

*Please assist with receipt of samples upon receipt.*

*[Signature]*

**96550**

Laboratory No. \_\_\_\_\_ Received By [Signature] Time 7:25  
 Date of Package Delivery 10-08-04 Shipping Bill Retained YES  NONE   
 Condition of Package on Receipt Good Condition of Custody Seal N/A  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 5 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 10-08-04 Misc. Info \_\_\_\_\_  
 Disposition of Samples EMS

FOR EML ONLY (SF 5100)

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96550  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040924  
 RECEIVED: 10/8/04 ANALYZED: 10/8/04  
 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.

86-62

# TEM ANALYSIS

EMS Lab No. 76550

Client VA-66ALHS

Sample No. 54040929

## RECEIVING

### METHOD OF ANALYSIS

EPA Method Level I   
Level II   
Level III   
AHERA   
ASPECT RATIO 3:1  5:1

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

FILTER TYPE/AREA (mm)  
MCE/385   
MCE/014   
MCE/1017   
Other

### TYPE OF SAMPLE

Air   
Soil   
Bulk   
Wet   
Wipe   
Other   
Dust/Microvac

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

### ANALYSIS

Date 10-8-89  
Prepared By CLD

Grid Address A  
Screen Magnification 2000X  
Camera Constant 280  
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 10-8-89  
Analyst Ward

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation					EDS Analysis				Comments	
			Width	Length	Thickness	Chrysotile	Anthophyllite	Amphibious	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
<p>965 MS 964 MS 961 MS</p>																

18 Lines

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

TEM - 2A (8-01)



# LEM ASBESTIUS ANALYSIS

EMS Lab No. 266310  
 Client AFELAS  
 Sample No. 82049224

**RECEIVING**

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification 1000x H600B - Serial No. 542-05-06   
 Camera Constant 250  
 Accelerating Voltage 10 100KV   
 Beam Current 10 nA

**ANALYSIS**

Analyst Lock Date 10/8/04

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
<u>500</u>	<u>1</u>	<u>1</u>														

16 Lines

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

82-01

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96550  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040925  
 RECEIVED: 10/8/04 ANALYZED: 10/8/04  
 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.

86-65

# TEM AEROSTOS ANALYSIS

EMS Lab No. 96550  
Client V.A. GCATS  
Sample No. SX 040975

**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   
PCNA Range\*  
140.25 µm width, >50 µm length

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

**FILTER TYPE/AREA (cm<sup>2</sup>)**  
MCE/385   
MCE/114   
MCE/1017   
Other

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

**PREP**  
G.O. Area (mm<sup>2</sup>) 0.0  
No. of G.O. to Analyze 7

**ANALYSIS**  
DIRECT PREP   
INDIRECT PREP   
Volume 750 µm<sup>3</sup>  
Working Volume \_\_\_\_\_ ml  
Weight \_\_\_\_\_ grams  
Ashed Area \_\_\_\_\_ %

Date 10/8/04  
Prepared By MA

Grid Address \_\_\_\_\_  
Screen Magnification 9400 X  
Camera Constant \_\_\_\_\_  
Accelerating Voltage 100 KV  
Beam Current \_\_\_\_\_ µA

**A**  
Date 10/8/04  
Analyst Wende

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

86-99  
TEM - 2A (8-01)

1. LEVEL ASBESTIUS ANALYSIS

EMS Lab No. 96556

Client WPC

Sample No. 82848925

Page 1 of 1  
MICROSCOPE

Grid Address: H600A - Serial No. 542-36-01   
Screen Magnification: 1940X xH600B - Serial No. 542-05-06   
Camera Constant: 4.7 H600C - Serial No. 542-24-03   
Accelerating Voltage: 100KV  
Beam Current: 10 MA

ANALYSIS

Analyst Ujord Date 10-8-04

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
<i>Handwritten scribbles</i>	<i>Handwritten scribbles</i>	<i>Handwritten scribbles</i>															

16 Lines

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

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96550  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040926  
 RECEIVED: 10/8/04 ANALYZED: 10/8/04  
 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 .....	1	0.005 /cc
Fiber Length: Range(um) .....	1.5 - 1.5	MEAN 1.5 um
Fiber Diameter: Range(um) .....	0.2 - 0.2	MEAN 0.2 um
Aspect Ratio: Range .....	10 - 10	MEAN 10
Fibers <5um/ Fibers >=5um .....	1 / N.D.	0.005 / 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 .....	1	0.005 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>2</b>	<b>0.01 /cc</b>
Chrysotile .....	2	0.01 /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>1</b>	<b>0.005 /cc</b>
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>2</b>	<b>0.01 /cc</b>
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0.001
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>30</b>	

REMARKS: LIGHT TO MODERATE DEBRIS

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

86-68

# TEM ASBESTOS ANALYSIS

EMS Lab No. 16538

Client VAGCARS

Sample No. 8X040976

**METHOD OF ANALYSIS**

EPA Yarnale Level I  Level II  Level III

ASPECT RATIO  $\frac{L}{W}$    $\frac{S}{L}$

LENGTHS

All Sizes (EPA)   $(\mu m) : > 0.25$    $(\mu m) : > 5.0$    $(\mu m) : > 10.0$

PCM Range   $10.25 \mu m$  width,  $> 5.0 \mu m$  length

## RECEIVING

**TYPE OF SAMPLE**

Air  Soil  Bulk  Wiper  Wipe  Other  Dust/Microvac

**PREP**

**FILTER TYPE/AREA**

MCE/380  MCE/514  MCE/1017  Other

**PORE SIZE**

0.45  $\mu m$   0.8  $\mu m$   0.1  $\mu m$   0.22  $\mu m$   Other

G.O. Area (mm<sup>2</sup>) 0.0 0.95

No. of G.O. to Analyze 7

## ANALYSIS

**PREP**

DIRECT PREP  INDIRECT PREP

Volume 100 ml

Working Volume 100 ml

Weight 0.09 grams

Ashed Area 10 %

Date 10-8-04

Prepared By sk

Grid Address A

Screen Magnification 1000x

Camera Constant 200

Accelerating Voltage 10 kV

Beam Current 10  $\mu A$

Page 1 of 1

**MICROSCOPE**

H600A - Serial No. 542-36-01

H600B - Serial No. 542-05-06

H600C - Serial No. 542-24-03

**A**

Analyser vllou Date 10-8-04

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation			EDS Analysis					Comments			
			Width	Length	Thickness	Chrysotile	Amphibole	Anfibrous	Non Asbestos	Re Pattern	Na	Mg	Si		Ca	Fe	Id
<u>EM7 150</u>	<u>3</u>	<u>MAP</u>	<u>70</u>	<u>100</u>	<u>30</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>ESSE</u>

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

86-98  
19-98

8-Oct-2004 11:44:47

96550-0926, A, #01, LK

Preset= Off

Vert= 200 counts Disp= 1

Elapsed= 32 secs

Energy Counts X-Ray Lines

1.28 204. Mg K , Mg K , Mg K , As L , As L ,  
As L

1.76 342. Si K , Si K , W M , W M

Quantex>

0.000 Range= 10.230 keV

10.110

Integral 8 = 61

86-70

EMS ANBESTIUS ANALYSIS

EMS Lab No. 36550

Client VAGUARYS

Sample No. SX040926

RECEIVING

Page of

MICROSCOPE

Grid Address H600A - Serial No. 542-36-01
Screen Magnification xH600B - Serial No. 542-05-06
Camera Constant 200
Accelerating Voltage 100KV
Beam Current 1.0 uA

ANALYSIS

Analyst J. Gorn Date 10-8-84

Table with columns: Grid Opening, Structure Number, Structure, Dimension (mm) [Width, Length, Thickness], SAED Observation [Chrysotile, Amphibole, Amorphous, Non Asbestos, Ho Pattern], EDS Analysis [Na, Mg, Si, Ca, Fe, Id], Comments

Handwritten notes: Off MS, Lab used, 10/6/84

16 Lines

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

Moderate, Heavy, Very Heavy

Light, Very Light, Good

Undissolved Filter, Folded



EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503



**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 98550  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040927  
 RECEIVED: 10/8/04 ANALYZED: 10/8/04  
 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 .....	3	0.01 /cc
Fiber Length: Range(um) .....	0.9 - 2	MEAN 1.5 um
Fiber Diameter: Range(um) .....	0.05 - 0.05	MEAN 0.05 um
Aspect Ratio: Range .....	18 - 38	MEAN 29
Fibers <5um/ Fibers >=5um .....	3 / N.D.	0.01 / 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> .....	<b>3</b>	<b>0.01 /cc</b>
Chrysotile .....	3	0.01 /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>3</b>	<b>0.01 /cc</b>
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>3</b>	<b>0.01 /cc</b>
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0.003
Upper 95% Confidence Limit(Structures/cc) .....		0.04
<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>45</b>	

REMARKS: LIGHT TO MODERATE DEBRIS

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

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# TEM ASTOS ANALYSIS

EMS Lab No. 88550  
 Client VA 66AHS  
 Sample No. 5X040927

## RECEIVING

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

LENGTHS  
 All Sizes (EPA)  
 (µm) : < 0.5   
 (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 (µm²)  
 MCE/MS  MCE/S14  MCE/1017  Other   
 PORE SIZE  
 0.45 µm  0.8 µm  0.1 µm  0.22 µm  Other

G.O. Area (mm²) 0.0 0.95  
 No. of G.O. to Analyze 7

## PREP

DIRECT PREP  INDIRECT PREP   
 Volume 1200 µm³  
 Working Volume 29.7 µm³  
 Weight 100.00 grams  
 Ashed Area 10 %  
 Date 10-8-04  
 Prepared By ca

Grid Address  
 Screen Magnification 1000x  
 Camera Constant  
 Accelerating Voltage 100.00 kV  
 Beam Current 10 µA

**A**  
 Date 10-8-04  
 Analyst Lark

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation			EDS Analysis						Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Amfibious	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>F33</u>	<u>1</u>	<u>F</u>	<u>1</u>	<u>18</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>EDS</u>
<u>F34</u>	<u>2</u>	<u>F</u>	<u>1</u>	<u>30</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>EDS</u>
<u>F35</u>	<u>3</u>	<u>F</u>	<u>1</u>	<u>38</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>EDS</u>
<u>F36</u>	<u>4</u>	<u>F</u>	<u>1</u>	<u>38</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>EDS</u>

15 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

8-Oct-2004 11:47:14

96550-0927, A, #01, LK                   Preset= Off  
Vert= 200 counts Disp= 1                Elapsed= 23 secs  
Energy Counts    X-Ray Lines

1.27    421.   Mg K , Mg K , Mg K , As L , As L ,  
                  As L

1.76    603.   Si K , Si K , W M , W M

Quantex>  
0.000    Range= 10.230 keV                10.110  
Integral 8 = 99

8-Oct-2004 11:48:01

96550-0927, A, #02, LK                   Preset= Off  
Vert= 200 counts Disp= 1                Elapsed= 16 secs  
Energy Counts    X-Ray Lines

1.26    173.   Mg K , Mg K , Mg K , As L , As L

1.76    207.   Si K , Si K , W M , W M

Quantex>  
0.000    Range= 10.230 keV                10.110  
Integral 8 = 42

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# TEM ANALYSIS ANALYSIS

EMS Lab No. 26530  
Client VAE CARS  
Sample No. 5x640927

### MICROSCOPE

Grid Address H600A - Serial No. 542-36-01   
Screen Magnification 1000X H600B - Serial No. 542-05-06   
Camera Constant 100.0 H600C - Serial No. 542-24-03   
Accelerating Voltage 100.0KV  
Beam Current 10  $\mu$ A

### ANALYSIS

Analyst SA Date 10/8/04

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation					EDS Analysis						Comments				
			Width	Length	Thickness	Chrysothle	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe	Id					
B41	A5D																				
C34	N5D																				
E03	N5D																				

16 Lines

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

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Department of Veterans Affairs

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. VISN #22
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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:** 10-07-04 Night Shift  
**Project:** Steamline TSI Debris Procedure V Cleanup  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room : SW Catwalk Floor : Main

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
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5. SAMPLING INFORMATION

<i>(Fill in Sample No.)</i>							
a. SAMPLE TYPE/MEDIA	SX040914	SX040915					
b. SAMPLE SUBMISSION NO.	16:30	17:00					
c. TIME ON	18:40	19:10					
d. TIME OFF	1:30	1:30					
TOTAL TIME (In minutes)	10	10					
FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	1300	1300					
g. VOLUME (in liters)							

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	F/CC					
Asbestos	0.0036	0.0972					

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 10/07/04 Night	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 10/07/04 Night	10d. FLOW RATE CALCULATIONS 10 liter/minute
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11. NAME & JOB TITLE (Person Performing Sampling) Kevin J. Kelly, SST 97-2293	DATE 10/07/04 Night	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO..
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86-76

Date: 10/07/04 Night  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates:

Location: Bldg-295 2<sup>nd</sup> Floor Catwalk

Abatement Company: Unlimited Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM: TSI & TSI Debris

Quantity of ACM: \_\_\_\_\_

Abatement Type & Method(s): Procedure V Cleanup

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 \_\_\_\_\_
- 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: SX040908 to SX040913
  - 3. Perimeter:

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

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 \_\_\_ 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. 295, Floor Main & Catwalk, Rooms SW Boiler Area 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 10/07/04 are as follows:

Bldg. <u>295</u>	Floor: ___	Room: ___	Structures/mm <sup>2</sup>
	Floor: <u>Main</u>	Room: <u>SW Catwalk</u>	<u>ND</u> 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

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# 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: 96554      Date Received: 10-8-04      Filter Type: MCE      Filter Area: 385  
 Client: VAGLAHS      Date Analyzed: 10-13-04      Mag: 400x      Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD      Date Sampled: 10-7-04      Project #: B295      Filter Size: Z5MM  
LOS ANGELES, CA 90073      Attention: B SPIVEY      File Name: 96554VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit)	Fibers/CC	LOD	LOQ	ANL SENT.
SX040914	100	9.5	12	4659	1300.0	0.0036	0.0021	0.0237	0.0004
SX040915	39	100.5	328	126384	1300.0	0.0972	0.0021	0.0237	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      SAHMAD

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

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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 / FAX: ~~XXXXXXXXXX~~ / FAX: ~~XXXXXXXXXX~~



**SUBMITTAL FORM** / Laboratory Services

96554

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

RELINQUISHED BY KELLY

TIME / DATE 10.07.04

CLIENT VA GLAHS (130b)

DATE OF SHIPMENT  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). B255, PROCEDURE 5 CLEANUP

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 10.07.04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 2 SAMPLER'S NAME [REDACTED]

SIGNATURE [REDACTED] PRINTED 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>96554-914</u>	<u>SX040914</u>	<u>1WA/ CATHOLIC SCHOOL</u>	<u>PCM</u>	<u>1300L</u>
<u>↓ 915</u>	<u>SX040915</u>	<u>BWA/ 1<sup>st</sup> FL BY OFFICE</u>	<u>PCM</u>	<u>1300L</u>
<i>(Remaining rows are crossed out with a diagonal line)</i>				

(SF 5/00)

FOR EM ONLY

Laboratory No. 96554 Received By [Signature] Time 8:00

Date of Package Delivery 10/8/04 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 2 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 10/8/04 Misc. Info. 86-80

Disposition of Samples EMS LABS

# 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>		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:** 10/13/04  
**Project:** ACM Debris Release  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 304, Room Roof

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>
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**6. SAMPLING INFORMATION**

<i>(Fill in Sample No.)</i>		<b>SAMPLE 1</b>			
a. SAMPLE TYPE/MEDIA		<b>PRWRK/PCM</b>			
b. SAMPLE SUBMISSION NO.		<b>SX040929</b>			
c. TIME ON		<b>11:25</b>			
d. TIME OFF		<b>13:50</b>			
e. TOTAL TIME (In minutes)		<b>145</b>			
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M <sup>3</sup> /min		<b>8</b>			
g. VOLUME (In liters)		<b>1160</b>			

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

P = PPM M = mg/m3 F = Fibers C = Celling T = Time Weighted Average		a. PERCENTAGE
		b. TYPE
Unit	F/CC	
Result	.0023	

**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 <b>10/13/04</b>	10b. FLOW RATE CALCULATIONS <b>8 liter/minute</b>	10c. (POST) CALI-BRATION DATE <b>10/13/04</b>	10d. FLOW RATE CALCULATIONS <b>8 liter/minute</b>
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Ted Davis, SST 94-1378</b>	DATE <b>10/13/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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86-81

Date: 10/13/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates: 10/13/04

Location: Bldg. 304, Roof

Abatement Company: Unlimited Environmental Inc. Phone Number: \_\_\_\_\_

Abatement Supervisor: Mauricio Fajardo

Type of ACM: TSI

Quantity of ACM: <100 feet

Abatement Type & Method(s): Wet & Bag-up 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: N/A 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: SX040929  
3. Perimeter: \_\_\_\_\_

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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 \_\_\_ 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: 3 Shower: Yes \_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes \_\_\_ 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. 304, Roof 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 10/13/04 are as follows:

Bldg <u>304</u>	Floor: _____	Room: <u>Roof</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

# NIOSH FIBER COUNT (METHUEN 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: 96645 Filter Area: 385  
 Client: VAGLAHS Date Received: 10-13-04 MCE 400x Field Area: 0.007690M  
 Address: 11301 WILSHIRE BLVD Date Analyzed: 10-14-04 Mag: 8304 Filter Size: 25MM  
LOS ANGELES, CA 90073 Date Sampled: NA Project #: 9665VAGLABSABR  
 Attention: B SPIVEY File Name: 9665VAGLABSABR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT
SX040-929	100	5.5	7	2697	1160.0	0.0023	0.0023	0.0266	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. 7195 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  
 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 / FAX: [REDACTED]

86-84

# SUBMITTAL FORM / Laboratory Services

96645

PAGE  OF

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

RELINQUISHED BY J. Davis  
 TIME / DATE 10-13-04

CLIENT VA-GLAHS (1305)  
 ADDRESS 11301 WILSHIRE BLVD., BLDG 218  
LOS ANGELES, CA 90025 RM 308  
 TELEPHONE [REDACTED]  
 CONTACT BEN SPIVEY

DATE OF SHIPMENT 10/13 CARRIER DRAW  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S). B304-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 \_\_\_\_\_  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 1 SAMPLER'S NAME [Signature] J DAVIS  
SIGNATURE PRINTED  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER PCM

**(FOR EMS ONLY)**      DATE TIME REPORT

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION, LOCATION, ANALYSIS	
----------------	-------------------	---------------------------------	--

96645-29	32040-929	3304, ROOF ABRADED - 11601 - PCM:	

**96645**

Laboratory No. \_\_\_\_\_ Received By Crystal Time 3:45 PM  
 Date of Package Delivery 10-13-04 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt add Condition of Custody Seal none  
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples \_\_\_\_\_ Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10-13-04 Misc. Info. \_\_\_\_\_  
 Disposition of Samples EMS

**FOR EMS ONLY** (SF 5/00)

88-PS

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO. 619		3. REGION NO. 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). <b>Date: 10-22-04</b> <b>Project: Removal of TSI on Ceiling Drain Pipe</b> <b>Contractor: Unlimited Environmental, Inc</b> <b>Location: Bldg. 218, 3<sup>rd</sup> Floor, Room 320</b>						
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		
<b>5. SAMPLING INFORMATION</b>						
(Fill in Sample No.)		SAMPLE 942	SAMPLE 943	SAMPLE 944	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA		Pre-Work/PCM	During/PCM	Clearance/TEM		
b. SAMPLE SUBMISSION NO.		SX040942	SX040943	SX040944		
c. TIME ON		0730	0930	1400		
TIME OFF		0850	1050	1520		
e. TOTAL TIME (In minutes)		80	80	80		
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M <sup>3</sup> /min		15	15	15		
g. VOLUME (In liters)		1200	1200	1200		
<b>6. RESULTS (For Laboratory Use)</b>						
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	S/mm <sup>2</sup>		
Asbestos (PCM)		0.0041	0.0219			
Asbestos (TEM)				0.02		
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 EMS Laboratories				AIHA ACCREDITATION NUMBER NVLAP# 101218		
9b. ADDRESS 117 West Bellevue Dr. Pasadena, CA91105				PAT NUMBER		
10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)						
10a. (PRE) CALI- BRATION DATE 10-22-04		10b. FLOW RATE CALCULATIONS 15 liter / min		10c. (POST) CALI- BRATION DATE 10-22-04		
				10d. FLOW RATE CALCULATIONS 15 liter / min		
NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293			DATE 10-22-04		USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.	

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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. 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
- 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: Forster
- 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. 218, Floor 3<sup>rd</sup>, Room 320 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 10/22/04 are as follows:

Bldg. <u>218</u>	Floor: <u>3rd</u>	Room: <u>320</u>	<u>0.02</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 Kelly, SST 97-2293

86-87

# 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:** 96875.1      **Date Received:** 10-25-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 10-26-04      **Mag:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 10-22-04      **Project #:** B218.R320      **Filter Size:** 75MM  
LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 96875VAGLABA.R

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX040942	100	10	13	4904	1200.0	0.0041	0.0022	0.0257	0.0004
SX040943	100	53.5	68	26239	1200.0	0.0219	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    *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    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 / FAX: [REDACTED]**

86-88

DATE: October 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-C40433  
B218, R320  
REPORT NO: 96875  
DATE RECEIVED: 10/25/04 at 1000  
DATE ANALYZED: 10/25/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040944

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.

96-89

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

05-98

▶ EMS Laboratory No. 98875 ▶ Date Received 10/25/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S. ▶ Date Analyzed 10/25/04 ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

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

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 040944	1200	-	60	0.02	0.005	0.005	0.05

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

**SUBMITTAL FORM/Laboratory Services**

**96875**

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

RECEIVED BY Kelley

TIME / DATE 10.22.04

CLIENT VA-GLAHS (130b)

DATE OF SHIPMENT                      CARRIER                     

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

CLIENT P.O. NO.                     

CLIENT JOB/PROJECT ID NO(S)                     

TELEPHONE                     

3218, R320

CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM                     

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO.                     

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

DATE/TIME OF SAMPLE COLLECTION 10.22.04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 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

96875-1-2

5X040942

PAVEMENT

PCM

1200L

↓ -3

5X040943

PAVEMENT REMOVAL

PCM

96875-4

5X040944

CLEARANCE

TEM

↓

*Need clearance report  
sent by 10AM Monday 10/25/04  
Remaining samples sent*

(SF 5/00)

FOR EM ONLY

Laboratory No. 96875

Received By                      Time 10:00

Date of Package Deliv. 10-25-04

Shipping BHT 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 27

Chain-of-Custody Signature                     

Date of Acceptance into Sample Bank 10-25-04

Misc. Info.                     

Disposition of Samples                     

86-91

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96875  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040944  
 RECEIVED: 10/25/04 ANALYZED: 10/25/04  
 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 .....	1	0.005 /cc
Fiber Length: Range(um) .....	1.6 - 1.6	MEAN 1.6 um
Fiber Diameter: Range(um) .....	0.05 - 0.05	MEAN 0.05 um
Aspect Ratio: Range .....	30 - 30	MEAN 30
Fibers <5um/ Fibers >=5um .....	1 / N.D.	0.005 / 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 .....	3	0.01 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>4</b>	<b>0.02 /cc</b>
Chrysotile .....	4	0.02 /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>1</b>	<b>0.005 /cc</b>
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>4</b>	<b>0.02 /cc</b>
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0.005
Upper 95% Confidence Limit(Structures/cc) .....		0.05
<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>60</b>	

REMARKS: MODERATE DEBRIS

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

*86-52*

# TEM ANALYSIS

EMS Lab No. 96875  
 Client VA 6 LATS  
 Sample No. SX00944

**RECEIVING**

METHOD OF ANALYSIS  
 EPA Yamate Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 3:1  5:2

LENGTHS  
 All Sizes (EPA)  
 (µm) : > 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range  
 (10-25 µm width, < 5.0 µm length)

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

FILTER TYPE/AREA (mm)  
 MCE/885   
 MCE/314   
 MCE/1017   
 Other   
 PORE SIZE  
 0.45 µm   
 0.8 µm   
 0.1 µm   
 0.22 µm   
 Other

## ANALYSIS

Grid Address 11  
 Screen Magnification 1920x  
 Camera Constant 28.4  
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

Date 10-25-04  
 Prepared By RL

G.O. Area (mm) 0.00913  
 No. of G.O. to Analyze 7

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

**A**  
 Date 10-25-04  
 Analyst Kabe

Grid Opening	Structure Number	Structure	Dimension (mm)	SAED Observation				EDS Analysis				Comments								
				Width	Length	Thickness	Chrysotile	Amphibole	Non Asbestos	No Pallate	Na		Mg	Si	Ca	Fe	Id			
(2-3)		WV																		
C34		MS																		
WV		WV																		
WV	1	MD	10	55										7	10					EDS Control
WV	2	TR	15	32										7	10					EDS Control close to h.f.

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

86-93

25-Oct-2004 11:44:45

96875, 944, A, #01, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 27 secs

Energy Counts X-Ray Lines

1.28 349. Mg K , Mg K , Mg K

1.76 466. Si K , Si K

6.41 206. Fe K , Fe K

Quantex)

0.000 Range= 10.230 keV

10.110

Integral 0 = 6050

25-Oct-2004 11:46:10

96875, 944, A, #02, RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 25 secs

Energy Counts X-Ray Lines

1.28 419. Mg K , Mg K , Mg K

1.76 587. Si K , Si K

2.64 165. Cl K , Cl K

6.41 2168. Fe K , Fe K

7.05 333. Fe K , Fe K

Quantex)

0.000 Range= 10.230 keV

10.110

Integral 0 = 12554

86-94



**IEM AMBESIOUS ANALYSIS**

EMS Lab No. 96875  
 Client VA HEALTH  
 Sample No. SX09944

**RECEIVING**

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

Analyst Radle Date 10-25-88

**ANALYSIS**

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysothale	Amphibole	Amphigouros	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
E4	1	MD		30	✓											EDS
E5	2	MD	55	60	✓											EDS

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

55-98  
 TEM - 28 (8-01)

25-Oct-2004 11:53:59

96875,944,B,#01,RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 20 secs

Energy Counts X-Ray Lines

1.29 122. Mg K , Mg K , Mg K

1.76 133. Si K , Si K

Quantex>

0.000 Range= 10.230 keV

Integral 0 = 10.110  
3646

86-96

25-Oct-2004 11:57:04

96875, 944, R, #002RS

Preset= 100 secs

Vert= 500 counts Disp= 1

Elapsed= 21 secs

Energy Counts X-Ray Lines

1.27 104. Mg K , Mg K , Mg K

1.78 152. Si K , Si K

Quantex>

0.000 Range= 10.230 keV

10.110

Integral 0 = 4387

86-97

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. 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:** 10-22-04  
**Project:** Removal of TSI on Ceiling  
**Contractor:** Unlimited Environmental, Inc  
**Location:** Bldg. 218 ,Room : 325A

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 945	SAMPLE 946	SAMPLE 947	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Pre Work	During Removal	Clearance		
b. SAMPLE SUBMISSION NO.	SX040945	SX040946	SX040947		
c. TIME ON	0950	1245	1430		
d. TIME OFF	1110	1405	1550		
TOTAL TIME (in minutes)	80	80	80		
FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	15		
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	
Unit	F/CC	F/CC	S/mm <sup>2</sup>		
Asbestos (PCM)	0.0012	0.0104			
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 EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
---	---

9b. ADDRESS 117 West Bellevue Dr. Pasadena, CA91105	PAT NUMBER
--	------------

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

10a. (PRE) CALI-BRATION DATE 10-22-04	10b. FLOW RATE CALCULATIONS 15 liter / min	10c. (POST) CALI-BRATION DATE 10-22-04	10d. FLOW RATE CALCULATIONS 15 liter / min
--	---	---	---

NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 10-22-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-98

Date: 10-22-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 10-22-04

Location: Bldg.: 218, Room: 325A

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM: Pipe Insulation

Quantity of ACM: 10 LF

Abatement Type & Method(s): Wet / Glove bag & Scrape Up 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  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: SX040945
- 3. Perimeter:

86-95

- 4. Inside Work Area: SX040946
- 5. Clearance: SX040947
- 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. 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
- 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: Forster
- 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. 218, Floor : 3<sup>rd</sup> Room : 325A 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 10/22/04 are as follows:

Bldg. <u>218</u>	Floor: <u>3rd</u>	Room :325 A	<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

*86-100*

# 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: 96874.1      Date Received: 10-25-04      Filter Type: MCE      Filter Area: 385  
 Client: VAGLAHS      Date Analysed: 10-26-04      Mag: 400x      Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD      Date Sampled: 10-22-04      Project #: B219, R325A      Filter Size: 25MM  
LOS ANGELES, CA 90073      Attention: B SPIVEY      File Name: 968741VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol.(Lit)	Fibers/CC	LOD	LOQ	ANL.SENT
SX040945	100	3	4	1471	1200.0	0.0012	0.0022	0.0257	0.0004
SX040946	100	25.5	32	12506	1200.0	0.0104	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

86-10

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 / FAX: [REDACTED]

DATE: October 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-C40433  
B218, R325A  
REPORT NO: 96874  
DATE RECEIVED: 10/25/04 at 1000  
DATE ANALYZED: 10/25/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040947

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.

86-102



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96874 ▶ Date Received 10/26/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V-A-G-L-A-H-S ▶ Date Analyzed 10/25/04 ▶ 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 <input type="checkbox"/>	
---	--	---	--	--	--

Sample Identification	Volume(L)	Mass/ $\text{m}^3$ (ng/ $\text{m}^3$ )	Structures/ $\text{mm}^2$	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit
SX 040947	1200	-	N.D.	N.D.	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

86-103

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96874  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040947  
 RECEIVED: 10/25/04 ANALYZED: 10/25/04  
 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
<b>Total Number of Fibers</b>		
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
<b>Total Amphibole Fibers</b> .....		
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> .....		
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> .....		
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....		
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> .....		
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....		

COMMENTS: LIGHT TO MODERATE DEBRIS

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

86-104

# TEM ANALYSIS

EMS Lab No. 96874  
 Client VH HEALTH  
 Sample No. SX 69947

**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, > 50 µm length)

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

**FILTER TYPE/AREA (mm<sup>2</sup>)**  
 MCE/SBS   
 MCE/S14   
 MCE/1017   
 Other

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

**EDS ANALYSIS**  
 Volume 1.22 liters  
 Working Volume 26.4 ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %  
 Date 10-21-04  
 Prepared By LR

**PREP**  
 Grid Address \_\_\_\_\_  
 Screen Magnification 1920x  
 Camera Constant \_\_\_\_\_  
 Accelerating Voltage 500 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 10-26-04  
 Analyst Radko

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	Id
836		ND															
837		ND															
838		ND															
839		ND															

**RECEIVING**

**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

16 Lines

TEM - 2A (8-01) 501-98

**EMS LABORATORIES** 117 West Bellevue Drive • Pasadena, CA 91105-2503

# TEM ASBESTOS ANALYSIS

EMS Lab No. 96874  
 Client VA 61AII  
 Sample No. Sx04947

**RECEIVING**

**ANALYSIS**

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 32x XH600B - Serial No. 542-05-06   
 Camera Constant 28.4 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

Analyst Leide Date 10-25-

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
<u>4x4</u>	<u>1</u>	<u>W/D</u>													
<u>4x4</u>	<u>2</u>	<u>W/D</u>													
<u>4x4</u>	<u>3</u>	<u>W/D</u>													
<u>4x4</u>	<u>4</u>	<u>W/D</u>													
<u>4x4</u>	<u>5</u>	<u>W/D</u>													
<u>4x4</u>	<u>6</u>	<u>W/D</u>													
<u>4x4</u>	<u>7</u>	<u>W/D</u>													
<u>4x4</u>	<u>8</u>	<u>W/D</u>													
<u>4x4</u>	<u>9</u>	<u>W/D</u>													
<u>4x4</u>	<u>10</u>	<u>W/D</u>													
<u>4x4</u>	<u>11</u>	<u>W/D</u>													
<u>4x4</u>	<u>12</u>	<u>W/D</u>													
<u>4x4</u>	<u>13</u>	<u>W/D</u>													
<u>4x4</u>	<u>14</u>	<u>W/D</u>													
<u>4x4</u>	<u>15</u>	<u>W/D</u>													
<u>4x4</u>	<u>16</u>	<u>W/D</u>													

16 Lines

OBSERVATIONS: Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

901-98

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

**SUBMITTAL FORM/Laboratory Services**

96874

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
TIME / DATE 10/22/04

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

DATE OF SHIPMENT [REDACTED] CARRIER [REDACTED]  
CLIENT P.O. NO. [REDACTED]  
CLIENT JOB/PROJECT ID NO(S) B218, R-325A  
PACKAGE SHIPPED FROM [REDACTED]

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 10.22.04  
SAMPLE PRESERVATIVES n/a HOLDING TIMES n/a  
NO. OF SAMPLES SENT 3 SAMPLER'S NAME [REDACTED]  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

SIGNATURE [REDACTED] PRINTED KELLY

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT
96874.1-5	SX040945	PRESWAK		ICM			POOL
↓ -6	SX040946	DUAL G REMOVAL		ICM			↓
96874-7	SX040947	CLEANERS		TEM			↓

15 Lines

*Need results of cleaners by 10AM Monday 10/25/04 housing samples starting with*

FOR EM ONLY (SF 5/00)

Laboratory No. 96874  
Date of Package Delivery 10-25-04  
Condition of Package on Receipt OK  
NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
No. of Samples 2 + 1  
Date of Acceptance into Sample Bank 10-25-04  
Disposition of Samples EMS LAB

Received By [REDACTED] Time 10:00  
Shipping Bill Retained: YES  NONE   
Condition of Custody Seal [REDACTED]  
Chain-of-Custody Signature [REDACTED]  
Misc. Info. 86-107

# AIR SAMPLING DATA

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

4. EMPLOYEE INFORMATION

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

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

**Date:** 10-25-04  
**Project:** Demolition Monitoring for Asbestos  
**Contractor**  
**Location:** Bldg. 304 Floor: 1<sup>st</sup>, Redo 1<sup>st</sup> Work Area

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 958	SAMPLE 959	SAMPLE 960	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	IWA CLEARANCE	AREA CLEARANCE	CLEARANCE IWA		
b. SAMPLE SUBMISSION NO.	SX040958	SX040959	SX040960		
c. TIME ON	1610	1610	1635		
d. TIME OFF	1810	1810	1835		
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		
g. VOLUME (in liters)	1200	1200	1200		

6. RESULTS (For Laboratory Use)

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Celling T = Time Weighted Average				a. PERCENTAGE			
				b. TYPE			
Unit	S/mm <sup>2</sup>	S/mm <sup>2</sup>	S/mm <sup>2</sup>	UNIT	RESULT		DATE
Asbestos	ND	ND	ND				10/25/04

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

8. IHC COMMENTS TO LABORATORY  
TEM (AHERA)

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

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE 10-25-04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALIBRATION DATE 10/25/04	10d. FLOW RATE CALCULATIONS 10 ltr/min
NAME & JOB TITLE (Person Performing Sampling) Ted Davis, CAC 94-1378		DATE 10/25/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-108

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 96895  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_  
 Date Received 10/26/04 Verbal Results \_\_\_\_\_  
 Date Analyzed 10/26/04 Fax Results \_\_\_\_\_

DIRECT PREP  
 INDIRECT PREP

ASPECT RATIO  
 3:1   
 5:1

STRUCTURE SIZE  
 All Sizes (EPA)   $\geq 5 \mu\text{m}$  Length   
 $\geq 0.5 \mu\text{m}$  Length  PCM Range\*   
 $\geq 5 \mu\text{m}$  Length  \* ( $\geq 0.25 \mu\text{m}$  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 040958	75*	0	N.D.	N.D.	0.05	0	0.2
SX 040959	75*	0	N.D.	N.D.	0.05	0	0.2

\* Original Vol. 1200L

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 \_\_\_\_\_

 EMS LABORATORIES  
 117 West Bellevue Drive / Pasadena, CA 91105-2503 / Fax: \_\_\_\_\_

# SUBMITTAL FORM/Laboratory Services

# 96895

PAGE 10-1

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

RELINQUISHED BY T. DAVIS

TIME/DATE 5PM / 10-25-04

CLIENT VA-GLAHS (1306)

DATE OF SHIPMENT 10/25 CARRIER Fed/EX

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

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

TELEPHONE \_\_\_\_\_

CLIENT JOB/PROJECT ID NO(S) B304, 1<sup>ST</sup> FLOOR DEMO.

CONTACT BBN SPIVEY

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

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. \_\_\_\_\_

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

DATE/TIME OF SAMPLE COLLECTION 10-25-04/1500 - 1800

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

NO. OF SAMPLES SENT 4 SAMPLER'S NAME [Signature] / T. DAVIS

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER TEM (AMFRA)

(FOR EMS ONLY)

VOLUME  
TIME WEIGHT  
ANALYSIS

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS
<u>96895-58</u>	<u>5X040-958</u>	<u>B304, 1<sup>ST</sup> FLR.</u>	<u>- RBDG CLEARANCE</u>	<u>TEM - 12001</u>
<u>59</u>	<u>5X040-959</u>	<u>"</u>	<u>- RBDG CLEARANCE</u>	<u>TEM - 12001</u>
<u>60</u>	<u>5X040-960</u>	<u>"</u>	<u>LAB AREA HOOD CLEAR.</u>	<u>TEM - 12001</u>
<u>61</u>	<u>5X040-961</u>	<u>B304, 1<sup>ST</sup> FLR</u>	<u>- FIELD BLANK.</u>	<u>TEM - 12001</u>
<p><u>RUSH! NOTE: IF SAMPLES ARE DIRTY - BURN THEM!!</u>  <u>USE THE ASH SYSTEM FOR TEM ANALYSIS -</u>  <u>WHEN RESULTS AVAILABLE CONTACT KEVIN KELLY @</u>  <u>[Redacted]</u>  <u>BEN SPIVEY @ [Redacted]</u>  <u>THANK YOU!!</u></p>				

FOR EMS ONLY (SF 500)

Laboratory No. 96895 Received By [Signature] Time 7:30

Date of Package Delivery 10-26-04 Shipping Bill Requested: YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal [Signature]

No. of Samples 4 Chain-of-Custody Signature [Signature]

Date of Acceptance into Sample Bank 10-26-04 Misc. Info. \_\_\_\_\_

Disposition of Samples EMU 10/27

86-110



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 96895 Date Received 10-26-04 Verbal Results 1:40 PM on 10/26/04  
 Client VA-CALHS Date Analyzed 10-26-04 FAX Results \_\_\_\_\_  
 Reference No. B304, 1st floor, Demo

Direct Preparation  STRUCTURE SIZE  
 Indirect Preparation \_\_\_\_\_ All Sizes (EPA) \_\_\_\_\_  
 EPA Level I \_\_\_\_\_ >0.5µm Length   
 EPA Level II \_\_\_\_\_ >5µm Length \_\_\_\_\_  
 AHERA Rules \_\_\_\_\_ PCM Range\* \_\_\_\_\_  
 NIOSH 7402 (PCM Range)  \*->0.25µm width, >5.0 µm Length

ANALYTICAL 95% CONFIDENCE LEVELS  
 SENSITIVITY Lower Upper  
 (Structures/cc) Limit Limit

Sample Identification Volume (L) Structures/mm<sup>2</sup> Structures/cc

SX040-960 1200 138 0.04 0-005

86 X "Asbestos-Containing Materials in Schools," U.S. EPA Final rule, 40 CFR Part 763, October 30, 1987 (AHERA) counting rules.  
 "Methodology for the Measurement of Airborne Asbestos by Electron Microscopy," USEPA 1984 (Yarnate, et. al.)  
 NIOSH 7402, Revision #1: 5/15/89 (NIOSH 7400 PCM equivalent range)

SA Tenanalyt 10/25/04  
 R.S. TEM Analysis

EMG EMS LABORATORIES 117 West Bellevue Drive / Pasadena CA 91105-2503

# AIR SAMPLING DATA

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

### 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:** 10-25-04  
**Project:** Demolition For Asbestos .  
**Contractor:** Unlimited Environmental , Inc  
**Location:** Bldg. 304 , 1st 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 958	SAMPLE 959	SAMPLE 960	SAMPLE 961	SAMPLE
a. SAMPLE TYPE/MEDIA	Redo Clearance/ TEM	Redo Clearance/ TEM	Lab Area Hood Clearance / TEM		
b. SAMPLE SUBMISSION NO.	SX040958	SX040959	SX040960		
c. TIME ON	0815	0825	0835		
d. TIME OFF	0955	1025	1035		
e. TOTAL TIME (in minutes)	100	120	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	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	S/mm <sup>2</sup>	S/mm <sup>2</sup>	S/mm <sup>2</sup>	S/mm <sup>2</sup>	
Asbestos (TEM)	N.D.	N.D.	140		

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

8. IH COMMENTS TO LABORATORY  
TEM

a. ANALYTICAL LABORATORY NAME EMS Laboratories	AJHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 10-25-04	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI- BRATION DATE 10-25-04	10d. FLOW RATE CALCULATIONS 10 liter / min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly , SST 97-2293	DATE 10-25-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
--	------------------	--

86-112

Date: 10-25-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates : 10-25-04

Location : Bldg. 304 , 1st Floor

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM :

Quantity of ACM : sq-ft

Abatement Type & Method(s):

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:
- 3. Perimeter:
- 4. Inside Work Area:
- 5. Clearance: SX040958 , SX040959 , SX040960

86-113

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. Glove bags: 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:      Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: 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: Forster
- 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.304, Floor 1<sup>st</sup> Redo 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 10/25/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: <u>Redo</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 Kelly ,SST97-2293

86-114

DATE: October 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-C40433  
B304, 1st Flr. DEMO  
REPORT NO: 96875  
DATE RECEIVED: 10/25/04 at 1000  
DATE ANALYZED: 10/25/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: SX040958, SX040959, SX040960

Samples SX040958 and SX040959 could not be prepared by the direct method due to the heavy loading of debris on the filters. EMS was instructed to prepare the filter by the indirect method on October 26.

The air sample SX040960 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.

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.

86-115

# RESULT OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96895-A      ▶ Date Received 10/26/04      ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S.      ▶ Date Analyzed 10/26/04      ▶ 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"/>	
		5:1 <input checked="" 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)	

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 040960	1200	-	140	0.02	0.005	0.02	0.08

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 \_\_\_\_\_

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96895  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/26/04 Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/26/04 Fax Results \_\_\_\_\_

DIRECT PREP <input type="checkbox"/> INDIRECT PREP <input checked="" 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 040958	75*	0	N.D.	N.D.	0	0.2
SX 040959	75*	0	N.D.	N.D.	0	0.2

\* Original Vol. 1200L

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

VAG EMS LABORATORIES

117 West Bellevue Drive / Pasadena, CA 91105-2503 / \_\_\_\_\_ / Fax: \_\_\_\_\_

**SUBMITTAL FORM/Laboratory Services**

96895

TURNAROUND TIME: STD  48 HR.  24 HR.    
 <8 HR.  WKND  OTHER: RUSH!!   
 RELINQUISHED BY T. DAVIS   
 TIME / DATE 5PM / 10-25-04   
 DATE OF SHIPMENT 10/25 CARRIER Fed/EX   
 CLIENT VA-GLAHS (130b) CLIENT P.O. NO.   
 ADDRESS 11301 WILSHIRE BLVD., BLDG 218   
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). B304, 12<sup>th</sup> FLOOR DEMO.   
 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 10-25-04/1500 - 1800   
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_   
 NO. OF SAMPLES SENT 4 SAMPLER'S NAME [Signature] / T. DAVIS   
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER TEM (AMERA)   
 SIGNATURE PRINTED

(FOR EMS ONLY)		CLIENT SAMPLE NO.			DESCRIPTION, LOCATION, ANALYSIS			VOLUME
EMS Sample No.							TIME WEIGHT	
<u>96895-58</u>		<u>5X040-958</u>	<u>B304, 12<sup>th</sup> FLR.</u>	<u>- R300 CLEARANCE - TEM</u>	<u>- 1200</u>	<u>1</u>		
<u>59</u>		<u>5X040-959</u>	<u>"</u>	<u>- R300 CLEARANCE - TEM</u>	<u>- 1200</u>	<u>1</u>		
<u>60</u>		<u>5X040-960</u>	<u>"</u>	<u>, LAB AREA HOOD CLEAR.</u>	<u>TEM - 1200</u>	<u>1</u>		
<u>61</u>		<u>5X040-961</u>	<u>B304, 12<sup>th</sup> FLR.</u>	<u>- FIELD BLANK.</u>	<u>-</u>	<u>-</u>		
<p><u>RUSH!! - NOTE: IF SAMPLES ARE DIRTY - BURN THEM!! USE THE ASH SYSTEM FOR TEM ANALYSIS - WHEN RESULTS AVAILABLE CONTACT KEVIN KELLY @ [REDACTED] BEN SPIVEY @ [REDACTED] THANK YOU!!</u></p>								

FOR EMILY (SF 5/00)

Laboratory No. 96895 Received By [Signature] Time 7:30   
 Date of Package Delivery 10-26-04 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 4 Chain-of-Custody Signature [Signature]   
 Date of Acceptance into Sample Bank 10-26-04 Misc. Info. 86-118   
 Disposition of Samples EMU WAH



**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96895  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040960  
 RECEIVED: 10/26/04 ANALYZED: 10/26/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM		CALCULATED VALUE	
Total Number of Fibers				
Total Chrysotile Fibers .....	4			0.02 /cc
Fiber Length: Range(um) .....	0.6 -	2.6	MEAN	1.3 um
Fiber Diameter: Range(um) .....	0.05 -	0.05	MEAN	0.05 um
Aspect Ratio: Range .....	12 -	50	MEAN	26
Fibers <5um/ Fibers >=5um .....	4 /	N.D.	0.02 / 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 .....	5			0.02 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....				
Chrysotile .....	9			0.04 /cc
Amphibole .....	9			0.04 /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> .....				
	4			0.02 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....				
Sensitivity Level(Structures/cc) .....	9			0.04 /cc
Lower 95% Confidence Limit(Structures/cc) .....				0.005
Upper 95% Confidence Limit(Structures/cc) .....				0.02
				0.08
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b> .....				
	N.D.			N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....				
	140			

REMARKS: MODERATE DEBRIS

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

76-119

# TEM ANALYSIS

EMS Lab No. 4689  
 Client VA GLA's  
 Sample No. SX040960

**RECEIVING**

METHOD OF ANALYSIS  
 EPA Yamete 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, >50 µm length

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

**PREP**

DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 µl  
 Working Volume 29.7 ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %  
 Date 10-26  
 Prepared By RL

G.O. Area (mm²) 0.0093  
 No. of G.O. to Analyze 7

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

**A**  
 Date 10-26-04  
 Analyst Realk.

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		
639	1	MP	40	55	A	✓												
630	2	MD	70	85		✓												
647		NDI				✓												
646	3	E	1	12														

**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

TEM - 2A (8-01)  
 021-98

# TEM ASBESTOS ANALYSIS

EMS Lab No. 7689  
 Client ALHATT  
 Sample No. SX040960

## ANALYSIS

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 1000X H600B - Serial No. 542-05-06   
 Camera Constant 100.0KX H600C - Serial No. 542-24-03   
 Accelerating Voltage 10 100KV  
 Beam Current 10  $\mu$ A

Analyst SA Date 10/26/04

Grid Deny	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Amibonous	Tan Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
F31	1	F	1	50		✓											EMSA 1
	2	F	1	20		✓											2
F43	3	MF	2.50	330		✓											3
F53	4	MF	10	40		✓											4
	5	F	1	20		✓											
	6	MF	1.50	170		✓											

16 Lines

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

Very Light  Light   
 Very Light  Light   
 Good  Scrapy

Moderate  Moderate   
 Moderate  Undissolved Filter   
 Heavy  Folded

Very Heavy  Very Heavy

121-98

26-Oct-2004 13:13:04

96895-0960, B, #01, SA

Preset= Off

Vert= 500 counts Disp= 1  
Energy Counts X-Ray Lines

Elapsed= 46 secs

1.27 304. Mg K , Mg K , Mg K  
1.76 596. Si K , Si K

Quantex)

0.000 Range= 10.230 keV

10.110

Integral 0 = 7385

26-Oct-2004 13:13:32

96895-0960, B, #02, SA

Preset= Off

Vert= 500 counts Disp= 1  
Energy Counts X-Ray Lines

Elapsed= 57 secs

1.28 385. Mg K , Mg K , Mg K  
1.76 726. Si K , Si K

Quantex)

0.000 Range= 10.230 keV

10.110

Integral 0 = 10022

86-122

26-Oct-2004 13:17:14

96895-0960, B, #03, SA

Preset= Off

Vert= 500 counts Disp= 1  
Energy Counts X-Ray Lines

Elapsed= 28 secs

1.28 255. Mg K , Mg K , Mg K

1.76 403. Si K , Si K

Quantex>

0.000 Range= 10.230 keV

10.110

Integral 0 = 4194

26-Oct-2004 13:20:55

96895-0960, B, #04, SA

Preset= Off

Vert= 500 counts Disp= 1  
Energy Counts X-Ray Lines

Elapsed= 22 secs

1.27 552. Mg K , Mg K , Mg K

1.76 677. Si K , Si K

Quantex>

0.000 Range= 10.230 keV

10.110

Integral 0 = 5282

86-123

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96895  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 314  
 VOLUME OF AIR: 75 L  
 METHOD OF ANALYSIS: INDIRECT PREP.

SAMPLE DESCRIPTION: SX 040958  
 RECEIVED: 10/26/04 ANALYSED 10/28/04  
 AREA OF SAMPLE ANALYSED (mm<sup>2</sup>): 0.093  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 9,100X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D. ....	N.D. /cc
Mass (ng) .....	N.D. ....	N.D. ng/m <sup>3</sup>
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
Mass (ng) .....	N.D. ....	N.D. ng/m <sup>3</sup>
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
Mass (ng) .....	N.D. ....	N.D. ng/m <sup>3</sup>
Total Number of Asbestos Cluster Clumps .....	N.D. ....	N.D. /cc
Mass (ng) .....	N.D. ....	N.D. ng/m <sup>3</sup>
Total Number of Asbestos Matrix/Debris .....	N.D. ....	N.D. /cc
Mass (ng) .....	N.D. ....	N.D. ng/m <sup>3</sup>
<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) .....		0.05
Lower 95% Confidence Limit(Structures/cc) .....		0
Upper 95% Confidence Limit(Structures/cc) .....		0.2
<b>TOTAL MASS OF ASBESTOS STRUCTURES(ng)</b> .....	N.D. ....	N.D. ng/m <sup>3</sup>
<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.

86-124

# TEM ANALYSIS

EMS Lab No. 96891

Client VAU LAB

Sample No. 521-98

**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\*  
 \*0.25 μm width, >5.0 μm length

TYPE OF SAMPLE  
 Ash   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microvec

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) 0.0093  
 No. of G.O. to Analyze 10

*Direct 20m*

**PREP**

DIRECT PREP   
 INDIRECT PREP   
 Volume \_\_\_\_\_ liters  
 Working Volume 5 ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area 25 %

Date 10-26-8  
 Prepared By \_\_\_\_\_

**ANALYSIS**

Grid Address A  
 Screen Magnification 500x  
 Camera Constant 50.5  
 Accelerating Voltage 100KV  
 Beam Current 10 μA

Page \_\_\_\_\_ of \_\_\_\_\_

MICROSCOPE

H600A - Serial No. 542-36-01

H600B - Serial No. 542-05-06

H600C - Serial No. 542-24-03

# A

Analyze Kede Date 10/26/8

Grid Opening		Structure Number		Structure		Dimension (mm)			SAED Observation				EDS Analysis			Comments
Width	Length	Thickness	Chrysotile	Amphibole	Anthropoids	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe	Id			
<u>K20</u>		<u>10</u>		<u>Wavy</u>												<u>Silicate fiber</u>

OBSERVATIONS:  
 Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Undissolved Filter   
 Moderate   
 Moderate

Heavy   
 Heavy   
 Folded

Moderate   
 Very Heavy   
 Very Heavy

16 Lines

**LEVI APPLIED IUS ANALYSIS**

EMS Lab No. 6895  
 Client VIA LATH  
 Sample No. 958

**RECEIVING**

**ANALYSIS**

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 100X H600B - Serial No. 542-03-06   
 Camera Constant 18.1 H600C - Serial No. 547-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10 µA

Analyst: SA Date 10/26/01

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>F43 N50</u>																				
<u>F041 N50</u>																				
<u>F44 N50</u>																				
<u>F43 N50</u>																				
<u>F43 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



TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96895  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 314  
 VOLUME OF AIR: 75 L  
 METHOD OF ANALYSIS: INDIRECT PREP.

SAMPLE DESCRIPTION: SX 040959  
 RECEIVED: 10/26/04 ANALYSED 10/26/04  
 AREA OF SAMPLE ANALYSED (mm<sup>2</sup>): 0.093  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 9,100X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers	N.D.	N.D. /cc
Mass (ng)	N.D.	N.D. ng/m <sup>3</sup>
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
Mass (ng)	N.D.	N.D. ng/m <sup>3</sup>
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
Mass (ng)	N.D.	N.D. ng/m <sup>3</sup>
Total Number of Asbestos Cluster Clumps	N.D.	N.D. /cc
Mass (ng)	N.D.	N.D. ng/m <sup>3</sup>
Total Number of Asbestos Matrix/Debris	N.D.	N.D. /cc
Mass (ng)	N.D.	N.D. ng/m <sup>3</sup>
<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)		0.05
Lower 95% Confidence Limit(Structures/cc)		0
Upper 95% Confidence Limit(Structures/cc)		0.2
<b>TOTAL MASS OF ASBESTOS STRUCTURES(ng)</b>	N.D.	N.D. ng/m <sup>3</sup>
<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.

86-127

TEM ANALYSIS

EMS Lab No. 9689J

Client VA hLAB

Sample No. SX040959

METHOD OF ANALYSIS

- EPA Yamate Level I
- EPA Yamate Level II
- EPA Yamate Level III
- AHERA
- ASPECT RATIO 3:1  5:1

LENGTHS

- All Sizes (EPA)
- ( $\mu\text{m}$ ) :  $\geq 0.5$
- ( $\mu\text{m}$ ) :  $> 5.0$
- ( $\mu\text{m}$ ) :  $> 10.0$
- PCM Range\*
- \*1.0-25.0  $\mu\text{m}$  width,  $> 50.0 \mu\text{m}$  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  $\mu\text{m}$
- 0.8  $\mu\text{m}$
- 1.1  $\mu\text{m}$
- 0.22  $\mu\text{m}$
- Other

G.O. Area (mm<sup>2</sup>) 2.0093

No. of G.O. to Analyze 10

PREP

- DIRECT PREP
- INDIRECT PREP
- Volume \_\_\_\_\_ liters
- Working Volume 5 ml
- Weight 25 grams
- Ashed Area 25 %

Date 10-26-06

Prepared By A

ANALYSIS

Indirect Prep

20ml

1200

- Grid Address 1440
- Screen Magnification 28.1
- Camera Constant 100.KV
- Accelerating Voltage 10  $\mu\text{A}$
- Beam Current 10

Date 10-26-06

Analyst Lady

A

Page of

MICROSCOPE

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

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation			EDS Analysis				Comments				
			Width	Length	Thickness	Chrysotile	Amphibole	Anfibrous	Non Asbestos	No Pattern	Na	Mg		Si	Ca	Fe	Id
15-0	15-0	15-0															Silicate fh.
15-0	15-0	15-0															
15-0	15-0	15-0															

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 •

# SEM ANALYSIS

EMS Lab No. 96895  
Client VA6LAB  
Sample No. 5640959

Page 1 of 1  
MICROSCOPE

## ANALYSIS

Grid Address H600A - Serial No. 542-36-01   
Screen Magnification 978   
Camera Constant 100 KV   
Accelerating Voltage 10 MA   
Beam Current 10 MA

## RECEIVING

Analyst S.A. Date 10/26/06

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysolite	Amphibole	Anbignouis	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
H3	N50	N50														
H4	N50	N50														
H5	N50	N50														
H6	N50	N50														

16 Lines

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

EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503

# AIR SAMPLING DATA

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

**4. EMPLOYEE INFORMATION**

6. 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:** 10-27-04  
**Project:** Demolition and TSI & Floor Tile and Mastic . Containment ,Negative Air, Wet Method Encapsulation.  
**Contractor:** Unlimited Engineering , Inc  
**Location:** Bldg. 304, 1<sup>st</sup> Floor , 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 965	SAMPLE966	SAMPLE967	SAMPLE968	SAMPLE971	SAMPLE972
a. SAMPLE TYPE/MEDIA	West room area/Back ground	West room area/Back ground	Hood Clearance Rcdo	Front Tile & Mastic	Clearance	West room clearance
b. SAMPLE SUBMISSION NO.	SX040965	SX040966	SX040967	SX040968	SX040971	SX040972
c. TIME ON	0600	0600	1005	1000	1440	1440
d. TIME OFF	0720	0720	1205	1145	1640	1640
TOTAL TIME (In minutes)	80	80	120	105	120	120
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	15	15	10	12	12	12
g. VOLUME (in liters)	1200	1200	1200	1260	1440	1440

**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>	S/mm <sup>2</sup>	S/mm <sup>2</sup>	F/CC	S/mm <sup>2</sup>	S/mm <sup>2</sup>	
Asbestos (PCM)				0.0348			
Asbestos (TEM)	N.D.	0.069	N.D.		N.D.	0.014	

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 EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena, CA91105	PAT NUMBER

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

10a. (PRE) CALI-BRATION DATE 10-27-04	10b. FLOW RATE CALCULATIONS 10 - 15 liter / min	10c. (POST) CALI-BRATION DATE 10-27-04	10d. FLOW RATE CALCULATIONS 10 - 15 liter / min
--	--	---	--

NAME & JOB TITLE (Person Performing Sampling) Ted Davis, CAC 94-1378	DATE 10-27-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	---------------	---

86-130

Date: 10-27-04

From: VA-GLAHS

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates : 10-27-04

Location : Bldg. 304, 1<sup>st</sup> Floor ,WEST Wing ,Demo

Abatement Company: Unlimited Environmental Phone Number: \_\_\_\_\_

Abatement Supervisor: Eduardo Gomez

Type of ACM : TSI & Floor Tile , Mastic

Quantity of ACM : 90 LF

Abatement Type & Method(s): Glove Bag / Wet / Peel

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: Yes X No \_\_\_\_\_
- C. Competent Person Outside of Work Area: Yes X No \_\_\_\_\_
- D. Asbestos Worksite Log: Yes X No \_\_\_\_\_

II. Air Monitoring:

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

- 1. Personal (VA): Yes \_\_\_\_\_ No X \_\_\_\_\_ Worker's Name/SS #:
- 2. Pre-Tests:
- 3. Perimeter: SX040965 ,SX040966

*86-131*

- 4. Inside Work Area: SX040968
- 5. Clearance: SX040967, SX040971, SX040972
- 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. 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. Adeq. Neg. Pressure Diff. in Containment: Yes X No
- F. Amended Water Used: Yes X No      How Applied: Hudson Sprayer
- G. External AFD Filters Replaced Daily: Yes X No
- H. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes X No
- I. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes X No
- J. Encapsulation: Yes X No      Name & Type:
- L. Work Area Ready for Clearance Air Testing: Yes X No

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg.304, Floor 1st West 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 10/27/1/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: <u>WEST</u>	<u>N.D.</u>	Structures/mm <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>	<u>    </u>	Structures/mm
	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 : Ted Davis, CAC 94-1378

86-132

# 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: 96952.1 Date Received: 10-28-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 10-29-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 10-27-04 Project #: B304, 1ST FLOOR Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 96952.1.VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	AML SENT
SX040-968	100	89.5	1.14	43895	1260.0	0.0348	0.0021	0.0244	0.0004

LOD = LIMIT OF DETECTION (7 FIBERS/ Sq.mm)  
 LOQ = LIMIT OF QUANTITATION (80 FIBERS/ Sq.mm)  
 AML 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.  
 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 / [REDACTED] / FAX: [REDACTED]

86133

**SUBMITTAL FORM/Laboratory Services**

**96952**

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

RELINQUISHED BY T. DAVIS  
 TIME / DATE 5 PM / 10-27-04  
 DATE OF SHIPMENT 10-27 CARRIER Fed-Ex  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B304 - 1<sup>ST</sup> FLOOR DEMO.  
 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 10-27 / 0600 - 1600  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 6 SAMPLER'S NAME T. DAVIS  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER TEMP/PM.

(FOR EMS ONLY)

EMS Sample No.  
96952-65  
66  
67\*  
96952-68  
96952-71\*  
72\*

CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME
5X040-965	B304, WEST ROOM, 1 <sup>ST</sup> FLR.	AREA	BACKGROUND	TEM/12001
5X040-966	" " " "	" "	" "	TEM/12001
5X040-967	B304-1 <sup>ST</sup> FLR. DEMO	FUME HOOD	CLEAR-REDO	TEM/12001
5X040-968	B304-1 <sup>ST</sup> FLR. DEMO	FLOOR TILE	EMASTIC WIP.	TEM/12001
5X040-971	B304, 1 <sup>ST</sup> FLR.	FLOOR TILE	CLEARANCE	TEM/14401
5X040-972	B304, 1 <sup>ST</sup> FLR.	FLOOR TILE	CLEARANCE	TEM/14401

NOTE: RUSH CLEARANCE SAMPLES ONLY  
 FAX RESULTS THURS - P.M.  
THANKS

FOR EM VLY (SF 5/00)

Laboratory No. 96952 Received By [Signature] Time 10:00  
 Date of Package Delivery 10-28-04 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 5 + 1 Chain-of-Custody Signature [Signature]  
 Date of Acceptance into Sample Bank 10-28-04 Misc. Info. 86-134  
 Disposition of Samples EMS LAB



DATE: October 29, 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-C40433  
B304 - 1st Flr. Demo  
REPORT NO: 96952  
DATE RECEIVED: 10/28/04 at 1000  
DATE ANALYZED: 10/28/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY  
The samples were identified as: SX040965, SX040966, SX040967, SX040971, SX040972

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.

86-135

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96952  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/28/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/28/04 ▶ Fax Results \_\_\_\_\_

**DIRECT PREP**  **INDIRECT PREP**   
**ASPECT RATIO**  
 3:1  5:1   
**STRUCTURE SIZE**  
 All Sizes (EPA)  ≥5 μm Length   
 ≥0.5 μm Length  PCM Range\*   
 ≥5 μm Length  \*(≥0.25 μm Width, ≥5.0 μm 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 040-965	1200	-	N.D.	N.D.	0.005	0	0.02
SX 040-966	1200	-	220	0.07	0.005	0.04	0.1
SX 040-967	1200	-	N.D.	N.D.	0.005	0	0.02
SX 040-971	1440	-	N.D.	N.D.	0.005	0	0.02
SX 040-972	1440	-	54	0.01	0.005	0.003	0.04

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

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
<b>4. EMPLOYEE INFORMATION</b>			
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. <i>(If Additional Space is Needed Use Reverse).</i>			
<p><b>Date:</b> <u>10/27/04</u>  <b>Project:</b> <u>Emergency Debris Clean-up</u>  <b>Contractor:</b> <u>Unlimited Environmental, Inc.</u>  <b>Location:</b> <u>Bldg. 295 Room: Central Center Cordial Floor: 1<sup>st</sup></u></p>			
h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>	
<b>5. SAMPLING INFORMATION</b>			
(Fill in Sample No.)	SAMPLE 1	SAMPLE 2	SAMPLE 5
a. SAMPLE TYPE/MEDIA	<b>BKG/TEM</b>	<b>PWRK /PCM</b>	
b. SAMPLE SUBMISSION NO.	<b>SX040969</b>	<b>SX040970</b>	
c. TIME ON	<b>10:20</b>	<b>12:30</b>	
d. TIME OFF	<b>12:30</b>	<b>15:50</b>	
e. TOTAL TIME (In minutes)	<b>130</b>	<b>200</b>	
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M/min	<b>10</b>	<b>10</b>	
VOLUME (in liters)	<b>1300</b>	<b>2000</b>	
<b>6. RESULTS (For Laboratory Use)</b>			
P = PPM M = mg/m <sup>3</sup> F = Fibers C = Celling T = Time Weighted Average			a. PERCENTAGE
			b. TYPE
Unit	Structure/mm <sup>2</sup>	F/CC	
Result	<b>N/a</b>	<b>.0020</b>	
7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments) <b>Phase Contrast Microscopy (PCM)/ 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 Dr., Pasadena, CA 91105-2503</b>		PAT NUMBER	
10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
10a. (PRE) CALI-BRATION DATE <b>10/27/04</b>	10b. FLOW RATE CALCULATIONS <b>10 liter/minute</b>	10c. (POST) CALI-BRATION DATE <b>10/27/04</b>	10d. FLOW RATE CALCULATIONS <b>10 liter/minute</b>
11. NAME & JOB TITLE (Person Performing Sampling) <b>Ted Davis, SST 94-1378</b>		DATE <b>10/27/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO

86-137

Date: 10/27/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates: 10/27/04

Location: Bldg. 295, Central West Central - 1st Floor

Abatement Company: Unlimited Environmental Inc. Phone Number: \_\_\_\_\_

Abatement Supervisor: Martin Perez

Type of ACM: Floor Tile and Mastic

Quantity of ACM: 1400 sfeet

Abatement Type & Method(s): Wet & Bag-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: 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 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: SX040970

86-138

4. Inside Work Area: \_\_\_\_\_
5. Clearance: SX040969
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: 3 Shower: Yes \_\_\_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes \_\_\_\_\_ 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. 295 Floor 1st Rooms Central West Center 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 10/27/04 are as follows:

Bldg. <u>295</u>	Floor: <u>1st</u>	Room: <u>Central</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: Ted Davis, SST 94-1378

76-138

# 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: 96951.1      Date Received: 10-28-04      Filter Type: MCE      Filter Area: 385  
 Client: VAGLAHS      Date Analysed: 10-29-04      Mag: 400x      Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD      Date Sampled: 10-27-04      Project #: B295      Filter Size: 25MM  
LOS ANGELES, CA 90073      Attention: B SPTVEY      File Name: 96951.1.VAGLABS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F / Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040-970	100	8	10	3924	2000.0	0.0020	0.0013	0.0154	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  
 I.D. 2033    JEFF WAN  
 I.D. 3276    S.AHMAD

B.M. Kolk, Laboratory Director 

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 / FAX: **

86-146

**SUBMITTAL FORM/Laboratory Services**

**96951.1**

TURNAROUND TIME: STD  48 HR.  24 HR.  RELINQUISHED BY: T. DAVIS  
 <8 HR.  WKND  OTHER: PUSH - TEM TIME / DATE 5 PM / 10-27

CLIENT VA-GLAHS (130b) DATE OF SHIPMENT 10/27 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) B 295-EMERG. DEBRIS CLEANUP.  
 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 10-27 / 1030 TO 1530  
 SAMPLE PRESERVATIVES \_\_\_\_\_ HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 2 SAMPLER'S NAME [Signature] / T. DAVIS  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER TEM / PCM

(FOR EMS ONLY)		VOLUME		
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS
<u>96951-69*</u>	<u>SX040-969</u>	<u>B 295, EMERGENCY DEBRIS CLEANUP -</u>	<u>TEM</u>	<u>1300</u>
<u>96951.1-70</u>	<u>SX040-970</u>	<u>B 295, " "</u>	<u>" "</u>	<u>" - WIP. - PCM / 2000</u>
<u>PUSH TEM PLEASE - FAX RESULTS THURSDAY P.M. THANKS.</u>				

FOR EM (SF 5/00)

Laboratory No. 96951.1 Received By [Signature] Time 10:00  
 Date of Package Delivery 10-28-04 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 1 + 1 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 10-28-04 Misc. Info. 86-141  
 Disposition of Samples EMS LAB

DATE: October 29, 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-C40433  
B295, Emeg. Debris Clean Up  
REPORT NO: 96951  
DATE RECEIVED: 10/28/04 at 1000  
DATE ANALYZED: 10/28/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

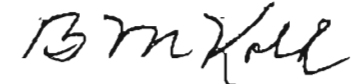
The sample was identified as: SX040969

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.

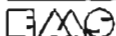
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Any deviation or exclusion from the test method is noted in this cover letter.

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

86-142





# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96951  
 ▶ Client VA.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 10/28/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 10/28/04 ▶ 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 040-969	1300	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.

86-143  
Comments

# RESULTS OF AIR FILTER ANALYSIS TEM for Asbestos Structures

EMS Laboratory No. 96957 Verbal Results 10-28-04 at 1:55 pm  
 Client VAGLAITS Date Received 10-28-04 FAX Results \_\_\_\_\_  
 Reference No. B29F Date Analyzed 10-28-04

Direct Preparation  STRUCTURE SIZE  
 Indirect Preparation \_\_\_\_\_ All Sizes (EPA) \_\_\_\_\_  
 EPA Level I \_\_\_\_\_  $\geq 0.5\mu\text{m}$  Length   
 EPA Level II \_\_\_\_\_  $> 5\mu\text{m}$  Length \_\_\_\_\_  
 AHERA Rules \_\_\_\_\_ PCM Range\* \_\_\_\_\_  
 NIOSH 7402 (PCM Range)   $< 0.25\mu\text{m}$  width,  $> 5.0\mu\text{m}$  Length

ASPECT RATIO  
 3:1 \_\_\_\_\_  
 5:1

ANALYTICAL SENSITIVITY (Structures/cc) 95% CONFIDENCE LEVELS  
 Lower Limit Upper Limit

Sample Identification	Volume (L)	Structures/mm <sup>2</sup>	Structures/cc	Lower Limit	Upper Limit
SX640-969	1300	ND	ND	0-000	

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

SFA Tem analysis  
 10/28/04  
 P.2

EMS LABORATORIES 117 West Bellevue Drive / Pasadena CA 91105-2503

86-141

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96951  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1300 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040-969  
 RECEIVED: 10/28/04 ANALYZED: 10/28/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0558  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

REMARKS: MODERATE DEBRIS

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

86-148

# TEM ASBESTOS ANALYSIS

EMS Lab No. 16915  
 Client VA 66A75  
 Sample No. SX040-969

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

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

**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 (mm) 0.0093  
 No. of G.O. to Analyze 6

## PREP

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 3.50 µliters  
 Working Volume \_\_\_\_\_ µl  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ µA

Date 10-28-00  
 Prepared By LLC

## ANALYSIS

Grid Address \_\_\_\_\_  
 Screen Magnification 1000X  
 Camera Constant 257  
 Accelerating Voltage 100KV  
 Beam Current \_\_\_\_\_ µA

**A**  
 Date 10-28-00

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>3.50</u>	<u>66A75</u>	<u>VA 66A75</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

941-146

TEM - 2A (8-01)

**ITEM ANALYSIS**

EMS Lab No. 9695  
 Client VA  
 Sample No. SX040-969

**RECEIVING**

Page    of     
 MICROSCOPE

Gold Address B H600A - Serial No. 542-36-01 -   
 Screen Magnification 1972 H600B - Serial No. 542-05-06   
 Camera Constant 388 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10  $\mu$ A

Analyst S.A. Date 10/28/

**ANALYSIS**

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Anisotropic	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	id
<u>Q36 NSD</u>																	
<u>F44 NSD</u>																	
<u>A46 NSD</u>																	

16 Lines

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

86-147

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. 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:** 10-27-04  
**Project:** Demolition and TSI & Floor Tile and Mastic . Containment ,Negative Air, Wet Method Encapsulation.  
**Contractor:** Unlimited Engineering , Inc  
**Location:** Bldg. 304, 1<sup>st</sup> Floor , 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
--	---	--

6. SAMPLING INFORMATION							
(Fill in Sample No.)	SAMPLE 965	SAMPLE966	SAMPLE967	SAMPLE968	SAMPLE971	SAMPLE972	
a. SAMPLE TYPE/MEDIA	West room area/Back ground	West room area/Back ground	Hood Clearance Redo	Front Tile & Mastic	Clearance	West room clearance	
b. SAMPLE SUBMISSION NO.	SX040965	SX040966	SX040967	SX040968	SX040971	SX040972	
c. TIME ON	0600	0600	1005	1000	1440	1440	
d. TIME OFF	0720	0720	1205	1145	1640	1640	
TOTAL TIME (In minutes)	80	80	120	105	120	120	
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M/min	15	15	10	12	12	12	
g. VOLUME (in liters)	1200	1200	1200	1260	1440	1440	

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>	S/mm <sup>2</sup>	S/mm <sup>2</sup>	F/CC	S/mm <sup>2</sup>	S/mm <sup>2</sup>	
Asbestos (PCM)				0.0348			
Asbestos (TEM)	N.D.	0.069	N.D.		N.D.	0.014	

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 NVLAP # 101218
--	---

9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER
---	------------

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 10-27-04	10b. FLOW RATE CALCULATIONS 10 - 15 liter / min	10c. (POST) CALI-BRATION DATE 10-27-04	10d. FLOW RATE CALCULATIONS 10 - 15 liter / min
--	--	---	--

NAME & JOB TITLE (Person Performing Sampling) <b>Ted Davis , CAC 94-1378</b>	DATE 10-27-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	---------------	---

86-148

Date: 10-27-04

From: VA-GLAHS

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates : 10-27-04

Location : Bldg. 304, 1<sup>st</sup> Floor ,WEST Wing ,Demo

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor: Eduardo Gomez

Type of ACM : TSI &Floor Tile , Mastic

Quantity of ACM : 90 LF

Abatement Type & Method(s): Glove Bag / Wet / Peel

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: Yes X No \_\_\_\_\_

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

D. Asbestos Worksite Log: Yes X No \_\_\_\_\_

II. Air Monitoring:

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

B. Contractor Calibrated Pumps: Yes \_\_\_\_\_ No \_\_\_\_\_

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

D. VAMC - IH Monitoring:

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

2. Pre-Tests:

3. Perimeter: SX040965 ,SX040966

86-149

4. Inside Work Area: SX040968
5. Clearance: SX040967, SX040967, SX040971, SX040972
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: 1 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: 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:
- 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.304, Floor 1st West 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 10/27/1/04 are as follows:

Bldg.	<u>304</u>	Floor:	<u>1st</u>	Room:	<u>WEST</u>	<u>N.D.</u>	Structures/mm <sup>2</sup>
		Floor:	<u>    </u>	Room:	<u>    </u>	<u>    </u>	Structures/mm
		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: Ted Davis, CAC 94-1378

86-150



151-98

# 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:** 96952.1 **Date Received:** 10-28-04 **Filter Type:** MCE **Filter Area:** 385  
**Client:** VAGLAHS **Date Analysed:** 10-29-04 **Mag:** 400X **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD **Date Sampled:** 10-27-04 **Project #:** 8304\_1ST FLOOR **Filter Size:** 25MM  
 LOS ANGELES, CA 90073 **Attention:** B SPIVEY **File Name:** 96952.VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol.(Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX040-968	100	89.5	114	43895	1260.0	0.0348	0.0021	0.0244	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*

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 / FAX: [REDACTED]**

26-152

RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 969152  
 Client VA-CALAFS Date Received 10-28-04 Verbal Results \_\_\_\_\_  
 Reference No. B300-1st floor Date Analyzed 10-28-04 FAX Results \_\_\_\_\_

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

STRUCTURE SIZE  
 All Sizes (EPA) \_\_\_\_\_  
 >0.5µm Length   
 >5µm Length \_\_\_\_\_  
 PCM Range\* \_\_\_\_\_  
 \*>0.25µm width, >5.0 µm Length

ANALYTICAL SENSITIVITY (Structures/cc)  
 95% CONFIDENCE LEVELS  
 Lower Limit  
 Upper Limit

Sample Identification	Volume (L)	Structures/mm <sup>2</sup>	Structures/cc	ANALYTICAL SENSITIVITY (Structures/cc)	95% CONFIDENCE LEVELS Lower Limit	Upper Limit
SX040-965	1200	ND	ND	0.005		
966	1200	215	0.069	0.005		
967	1200	ND	ND	0.005		
971	1440	ND	ND	0.005		
972	1440	54	0.014	0.005		

"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)

EMS LABORATORIES 117 West Bellvue Drive / Pasadena CA 9105-2503

SAT Environmental  
 10/28/04

SUBMITTAL FORM/Laboratory Services

96952

PAGE 1 OF 1

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

RELINQUISHED BY T. DAVIS TIME / DATE 5 PM / 10-27-04

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

DATE OF SHIPMENT 10-27 CARRIER Fed-Ex CLIENT P.O. NO.

TELEPHONE CONTACT BEN SPIVEY

CLIENT JOB/PROJECT ID NO(S) B304 - 1st Floor Demo. PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL [ ] FAX [X] CLIENT FAX NO.

DATE/TIME OF SAMPLE COLLECTION 10-27 / 0600 - 1600 SAMPLE PRESERVATIVES HOLDING TIMES NO. OF SAMPLES SENT 6 SAMPLER'S NAME M. DAVIS TYPE: [ ] WATER [ ] WASTE WATER [ ] SOIL [ ] FILTER [ ] SORBENT TUBE [ ] IMPINGER [X] OTHER Temp.

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO	DESCRIPTION	LOCATION	ANALYSIS
96952-65	5X040-965	B304, WEST	1st Floor - AREA	BACKGROUND TEM/1200/
66	5X040-966	" " "	" " "	TEM/1200/
67*	5X040-967	B304 - 1st Floor	Demo - FLOOR CLEARANCE	REDU TEM/1200/
96952-68	5X040-968	B304 - 1st Floor	Demo - FLOOR TILE	EMASTIC, W/P TEM/1200/
96952-71*	5X040-971	B304, 1st Floor	- FLOOR TILE - CLEARANCE	TEM/1440/
72*	5X040-972	B304, 1st Floor	- FLOOR TILE - CLEARANCE	TEM/1440/

NOTE: RUSH CLEARANCE SAMPLES ONLY FAX RESULTS THURS - P.M. THANKS

FOR E, ONLY (SF 5/00)

Laboratory No. 96952 Received By [Signature] Time 10:00 Date of Package Delivery 10-28-04 Shipping Bill Retained: YES [ ] NONE [X] Condition of Package on Receipt Condition of Custody Seal Chain-of-Custody Signature Misc. Info No. of Samples 5 + 1 Date of Acceptance into Sample Bank 10-28-04 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>			
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)			
<p><b>Date:</b> <u>10/28/04</u>  <b>Project:</b> <u>ACM Debris Reclean</u>  <b>Contractor:</b> <u>Unlimited Environmental, Inc.</u>  <b>Location:</b> <u>Bldg. 295 Room: South West Wing</u></p>			
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	
<b>5. SAMPLING INFORMATION</b>			
(Fill in Sample No.)			
a. SAMPLE TYPE/MEDIA	SAMPLE 1 Area/ TEM		
b. SAMPLE SUBMISSION NO.	SX040979		
c. TIME ON	10:10		
d. TIME OFF	12:10		
e. TOTAL TIME (In minutes)	120		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cu/min	10		
VOLUME (in liters)	1200		
<b>6. RESULTS (For Laboratory Use)</b>			
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average		a. PERCENTAGE	
Unit		Structure/mm <sup>2</sup>	
Asbestos (TEM)		N.D.	
b. TYPE			
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 10/28/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE 10/28/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
11. NAME & JOB TITLE (Person Performing Sampling) Ted Davis, CAC 94-1378		DATE 10/28/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-154

Date: 10/28/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates: 10/28/04

Location: Bldg. 295, South West Wing

Abatement Company: Unlimited Environmental Inc. Phone Number: \_\_\_\_\_

Abatement Supervisor: Mauricio Fajardo

Type of ACM: TSI

Quantity of ACM: <25

Abatement Type & Method(s): Wet Wiping/ Vacuuming & Bag-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 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: 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: SX040979

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

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- 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: 3 Shower: Yes \_\_\_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes \_\_\_\_\_ 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. 295 Rooms South 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 10/28/04 are as follows:

Bldg. <u>295</u>	Floor: _____	Room: <u>SW</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: Ted Davis, CAC 94-1378

86-156

DATE: November 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-C40433  
B295, SWC Steam Plant  
REPORT NO: 96982  
DATE COLLECTED: 10/28/04 at T. Davis  
DATE RECEIVED: 11/1/04 0700  
DATE ANALYZED: 11/1/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

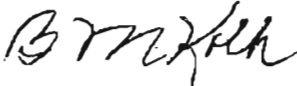
The sample was identified as: SX040479

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.

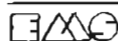
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Any deviation or exclusion from the test method is noted in this cover letter.

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

86-157



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96982  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 11/1/04  
 ▶ Date Analyzed 11/1/04  
 ▶ Verbal Results \_\_\_\_\_  
 ▶ 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"/> ≥0.5 μm Length <input checked="" type="checkbox"/> ≥5 μm Length <input type="checkbox"/>
			≥5 μm Length <input type="checkbox"/> * (≥0.25 μm Width, ≥5.0 μm 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
SX 040479	1200	-	N.D.	N.D.	0	0.02

TEM - 3A (02-04)

82-98

- "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**

**96982**

TURNAROUND TIME: STD  48 HR.  24 HR.  RELINQUISHED BY T. Davis  
 <8 HR.  WKND  OTHER:  TIME / DATE 10-28-04

CLIENT VA-GLASS (130b) DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 ADDRESS 11301 WILSHIRE BLVD, BLDG 218 CLIENT P.O. NO. \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ B 295, SWC STEAM PLANT  
 CONTACT BEN SPIVEY PACKAGE SHIPPED FROM \_\_\_\_\_

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

DATE/TIME OF SAMPLE COLLECTION 10.28.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES \_\_\_\_\_  
 NO. OF SAMPLES SENT 1 SAMPLER'S NAME T. Davis 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 TEMPERATURE
<u>EX040979</u>	<u>AREA IN SWC</u>		<u>TECH</u>	<u>1200L</u>

FOR EMS ONLY (SF 5/00)

Laboratory No. 96982 Received By T. Davis Time 7:00  
 Date of Package Delivery 11-1-04 Shipping Bill Retained: 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 1 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 11-1-04 Misc. Info. \_\_\_\_\_  
 Disposition of Samples EM LAB 86-159

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96982  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040479  
 RECEIVED: 11/1/04 ANALYZED: 11/1/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

REMARKS: LIGHT TO MODERATE DEBRIS

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

86-160

# TEM ANALYSIS

EMS Lab No. 9682

Client VALLAITS

Sample No. SX 04079

### METHOD OF ANALYSIS

- EPA Yamate Level I
- Level II
- Level III
- AHERA
- ASPECT RATIO 3:1  5:1

### LENGTHS

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

### TYPE OF SAMPLE

- Air
- Soil
- Bulk
- Water
- Wipe
- Other
- Dust/Microvac

- FILTER TYPE/AREA (mm²)
- MCE/305
  - MCE/314
  - MCE/1017
  - Other

### PREP

- PORE SIZE
- 0.45 μm
  - 0.8 μm
  - 0.1 μm
  - 0.22 μm
  - Other
- DIRECT PREP
- INDIRECT PREP
- Volume 1200 liters
- Working Volume \_\_\_\_\_ ml
- Weight \_\_\_\_\_ grams
- Ashed Area \_\_\_\_\_ %

G.D. Area (mm²) 0.0093

No. of G.D. to Analyze 7

### ANALYSIS

Date 10-1-04

Prepared By R.

Grid Address A

Screen Magnification 1900x

Camera Constant 28

Accelerating Voltage 100KV

Beam Current 10 μA

Analyst Radke

Date 10-1-04

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation	EDS Analysis					Comments	
			Width	Length	Thickness		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



EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503 •

96-161

TEM-2A (8-01)

**EDS ANALYSIS**

EMS Lab No. 96982

Client VFA 6 LAHS

Sample No. 439

**RECEIVING**

Page 1 of 1

**MICROSCOPE**

Grid Address H600A - Serial No. 542-36-01

Screen Magnification 1000X H600B - Serial No. 542-05-06

Camera Constant 180 H600C - Serial No. 542-24-03

Accelerating Voltage 100 KV

Beam Current 40  $\mu$ A

Analyst S.A. Date 10/1/68

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>100</u>	<u>1</u>	<u>ASB</u>															
<u>100</u>	<u>2</u>	<u>ASB</u>															
<u>100</u>	<u>3</u>	<u>ASB</u>															
<u>100</u>	<u>4</u>	<u>ASB</u>															
<u>100</u>	<u>5</u>	<u>ASB</u>															
<u>100</u>	<u>6</u>	<u>ASB</u>															
<u>100</u>	<u>7</u>	<u>ASB</u>															
<u>100</u>	<u>8</u>	<u>ASB</u>															
<u>100</u>	<u>9</u>	<u>ASB</u>															
<u>100</u>	<u>10</u>	<u>ASB</u>															
<u>100</u>	<u>11</u>	<u>ASB</u>															
<u>100</u>	<u>12</u>	<u>ASB</u>															
<u>100</u>	<u>13</u>	<u>ASB</u>															
<u>100</u>	<u>14</u>	<u>ASB</u>															
<u>100</u>	<u>15</u>	<u>ASB</u>															

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

86-162

TEM-28 (8-01)

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. <b>VISN #22</b>
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4. EMPLOYEE INFORMATION		
NAME OF EMPLOYEE N/A	SSN N/A	JOB TITLE

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

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

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

**Date:** 10/29/04  
**Project:** Transite Pipe Removal & Floor Tile Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 304 Floor: 1<sup>st</sup> Room: South 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 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	
a. SAMPLE TYPE/MEDIA	TEM/CL	TEM/CL	During /TEM	During /TEM	
b. SAMPLE SUBMISSION NO.	SX040980	SX040981	SX040982	SX040983	
c. TIME ON	6:40	6:45	8:00	10:10	
d. TIME OFF	8:40	8:45	10:00	12:10	
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	

8. RESULTS (For Laboratory Use)				
P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average	a. PERCENTAGE			
	b. TYPE			
Unit	Structure/mm <sup>2</sup>	Structure/mm <sup>2</sup>	Structure/mm <sup>2</sup>	Structure/mm <sup>2</sup>
Result	15	N/a	2957	661

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 10/29/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 10/29/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 10/29/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

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- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040980-81
- 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: 3 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes X No     Licensed: Yes     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 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 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. 304, Floor 1st Rooms South West End 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 10/29/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: <u>SW</u>	<u>   </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 Kelly, SST 97-2293

86-165

# SUBMITTAL FORM/Laboratory Services

# 96984

ACF  Cr

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

RELINQUISHED BY KELLY  
TIME / DATE 10.29.04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) 13304, 15 EL DORO  
PACKAGE SHIPPED FROM \_\_\_\_\_

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 10.29.04  
SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
NO. OF SAMPLES SENT 4 SAMPLER'S NAME KELLY  
SIGNATURE [Signature] PRINTED KELLY  
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
96984-80	SK040980	CLEARANCE FT+H/IWA		TEH 1200L
81	SK040981	CLEARANCE FT+H/IWA		↓
82	SK040982	DURING/IWA TP		↓
83	SK040983	DURING/IWA TP		↓

*Please give clearance  
report to ASAB by 12 noon 11/1  
Remaining samples standard IAI*

(SF 500)

FOR EIL ONLY

Laboratory No. 96984 Received By [Signature] Time 7:30

Date of Package Delivery 11-1-04 Shipping Bill Returned: YES  NONE

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

No. of Samples 4 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 11-1-04 Misc. Info. \_\_\_\_\_

Disposition of Samples FOR CLAB



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 96984 Date Received 11-1-04 Verbal Results \_\_\_\_\_  
 Client VA HEALTH Date Analyzed 11-3-04 FAX Results \_\_\_\_\_  
 Reference No. \_\_\_\_\_

Direct Preparation  STRUCTURE SIZE  
 Indirect Preparation \_\_\_\_\_ All Sizes (EPA) \_\_\_\_\_  
 EPA Level I \_\_\_\_\_ >0.5µm Length   
 EPA Level II \_\_\_\_\_ >5µm Length \_\_\_\_\_  
 AHERA Rules  PCM Range\* \_\_\_\_\_  
 NIOSH 7402 (PCM Range) <-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	Lower Limit	Upper Limit
SX040982	1200	2957	0.949	0.017	
SX040983	1200	661	0.212	0.005	

"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: 5/15/89 (NIOSH 7400 PCM equivalent range)

EMS LABORATORIES 117 West Bellevue Drive / Pasadena CA 91105-2503

*Handwritten:* K.S. TEM Study # 14-3-04

*Handwritten:* PL-167

# RESULTS OF AIR FILTER ANALYSIS

EM for Asbestos Structures

EMS Laboratory No. 96984

Client VA GLAHS

Reference No. B 304, 1st FLEEMO

Date Received 11-1-04

Date Analyzed 11-1-04

Verbal Results 11-1-04

FAX Results 11-1-04

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

ASPECT RATIO

3:1 X  
5:1 X

STRUCTURE SIZE

All Sizes (EPA) X  
 ≥0.5µm Length X  
 >5µm Length       
 PCM Range\*       
 \*>0.25µm width, >5.0 µm Length

### ANALYTICAL 95% CONFIDENCE LEVELS

SENSITIVITY Lower Upper  
 (Structures/cc) Limit Limit

Sample Identification Volume (L) Structures/mm<sup>2</sup> Structures/cc

SX040980 1200 15 0.005- 0.005-  
SX040981 1200 ND ND 0.005-

— "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)

EMS LABORATORIES 117 West Bellevue Drive / Pasadena CA 9105-2503

*P. J. Fern Analysis*  
*11-1-04*

86-168

# 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, WDRK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED.  
(If Additional Space is Needed Use Reverse).

**Date:** 10/28/04  
**Project:** Tile and Mastic Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 304 Room: Central Center Cordial 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 No.)	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5
a. SAMPLE TYPE/MEDIA	PWRK/PCM	PWRK/PCM	PWRK/PCM	PWRK/PCM	
b. SAMPLE SUBMISSION NO.	SX040973	SX040974	SX040975	SX040976	
c. TIME ON	6:20	6:30	9:10	9:15	
d. TIME OFF	8:20	8:30	11:10	11:15	
e. TOTAL TIME (In minutes)	120	120	120	120	
f. FLOW RATE <input checked="" type="checkbox"/> $\frac{1}{2}$ l/min <input type="checkbox"/> $\frac{1}{4}$ l/min	10	10	10	10	
VOLUME (in liters)	1200	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	F/CC	F/CC	F/CC	
Result	N/a	.0592	.0090	.040	

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) CALIBRATION DATE 10/28/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALIBRATION DATE 10/28/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 94-1378		DATE 10/28/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

# AIR SAMPLING DATA

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

### 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:** 10/28/04  
**Project:** Tile and Mastic Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 304 Room: Central Center Cordial 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 No.)	SAMPLE 5	SAMPLE 6		
a. SAMPLE TYPE/MEDIA	PWRK/PCM	PWRK /PCM		
b. SAMPLE SUBMISSION NO.	SX040977	SX040978		
c. TIME ON	11:50	12:00		
d. TIME OFF	13:50	14:00		
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		
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	
Unit	F/CC	F/CC			
Result	.0437	.036			

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

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 94-1378	DATE 10/28/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

Date: 10/28/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 10/01/04

Location: Bldg. 304, Centra; West Central - 1st Floor

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

Abatement Supervisor: Martin Perez

Type of ACM: Floor Tile and Mastic

Quantity of ACM: 1400 sfeet

Abatement Type & Method(s): Wet & Bag-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: 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 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: SX040874-75, SX040978

- 4. Inside Work Area: SX040873, SX040876-77
- 5. Clearance: SX040980-81
- 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: 3 Shower: Yes      No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes      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. 304 Floor 1st Rooms Central West Center 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 10/28/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: <u>Central</u>	<u>    </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 Kelly, SST 94-1378

86-172

# 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:** 96981      **Date Received:** 11-1-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 11-2-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 10-28-04      **Project #:** BM4.1ST FLOOR      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 96981VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX040973	OVERLOADED				1200.0	N.A.			
SX040974	69	100	185	71079	1200.0	0.0592	0.0022	0.0257	0.0004
SX040975	100	22	28	10790	1200.0	0.0090	0.0022	0.0257	0.0004
SX040976	100	99	126	48554	1200.0	0.040	0.0022	0.0257	0.0004
SX040977	94	100.5	136	52436	1200.0	0.0437	0.0022	0.0257	0.0004
SX040978	100	87	111	42669	1200.0	0.036	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

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 / FAX: [REDACTED]**

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# SUBMITTAL FORM / Laboratory Services

# 96981

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
TIME / DATE 10.28.04

CLIENT VA-GLANS (1306)  
ADDRESS 11301 WILSHIRE BLVD., BLDG 21B  
LOS ANGELES, CA 90025 RM 308

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

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

B 304, 1ST FL DEMO  
PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX

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

DATE/TIME OF SAMPLE COLLECTION 10.28.04

SAMPLE PRESERVATIVES NA

HOLDING TIMES NA

NO. OF SAMPLES SENT 6 SAMPLER'S NAME \_\_\_\_\_

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	TIME	HT
96981-73	5X040973	DUMBO / IWA		PCM		1200L
74	5X040974	DUMBO / DECO				
75	5X040975	DUMBO / DECO				
76	5X040976	DUMBO / IWA				
77	5X040977	DUMBO / IWA				
78	5X040978	DUMBO / DECO				
<del>_____</del>						

(SF 5/00)

## 96981

FOR EMS ONLY

Laboratory No. 96981 Received By [Signature] Time 6:30

Date of Package Delivery 11-1-04 Shipping Bill Returned: YES  NONE

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

No. of Samples 6 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 11-1-04 Misc. Info. [Signature]

Disposition of Samples EMS LAB

86-174



# AIR SAMPLING DATA

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

### 4. EMPLOYEE INFORMATION

a. NAME OF EMPLOYEE N/A		b. SSN N/A	c. 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:** 10/28/04  
**Project:** ACM Debris Reclean  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room: South 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
--	---	--

### 6. SAMPLING INFORMATION

<i>(Fill in Sample No.)</i>		SAMPLE 1			
a. SAMPLE TYPE/MEDIA		Area/ TEM			
b. SAMPLE SUBMISSION NO.		SX040979			
c. TIME ON		10:10			
d. TIME OFF		12:10			
e. TOTAL TIME (In minutes)		120			
f. FLOW RATE <input checked="" type="checkbox"/> /min <input type="checkbox"/> /min		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	Structure/mm <sup>2</sup>	
Result		

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

11. NAME & JOB TITLE (Person Performing Sampling) Ted Davis, SST 94-1378	DATE 10/28/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

Date: 10/28/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates: 10/28/04

Location: Bldg. 295, South West Wing

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

Abatement Supervisor: Mauricio Fajardo

Type of ACM: TSI

Quantity of ACM: <25

Abatement Type & Method(s): Wet Wiping/ Vacuuming & Bag-up 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: N/A 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: SX040979
- 3. Perimeter: \_\_\_\_\_

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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: 3 Shower: Yes \_\_\_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes \_\_\_\_\_ 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. 295 Rooms South 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 10/28/04 are as follows:

Bldg. <u>295</u>	Floor: _____	Room: <u>SW</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: Ted Davis, SST 94-1378

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# SUBMITTAL FORM/Laboratory Services

96982

PAGE 1 OF 1

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

RELINQUISHED BY T. DAVIS  
TIME / DATE 10 28. 04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) B 295, SWC STEAM PLANT  
PACKAGE SHIPPED FROM \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX  CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 10.28.04  
SAMPLE PRESERVATIVES N/A  
NO. OF SAMPLES SENT 1 SAMPLER'S NAME [REDACTED] HOLDING TIMES [REDACTED]  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO	DESCRIPTION, QUANTITY ANALYSIS	DATE	TIME
96982-79	5X040979	AREA IN SWC	TEH	1200L
<del>_____</del>				
<del>_____</del>				
<del>_____</del>				
<del>_____</del>				
<del>_____</del>				
<del>_____</del>				
<del>_____</del>				
<del>_____</del>				
<del>_____</del>				

FOR LABORATORY USE ONLY (SF 5/00)

Laboratory No. 96982  
Date of Package Delivery 11-1-04  
Condition of Package on Receipt \_\_\_\_\_  
Condition of Custody Seal \_\_\_\_\_  
No. of Samples 1  
Date of Acceptance into Sample Bank 11-1-04  
Disposition of Samples EMG LAB  
Received By [Signature]  
Shipping Bill Retained: YES  NONE   
Chain-of-Custody Signature \_\_\_\_\_  
Misc. Info \_\_\_\_\_

26-178

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 96982

Client VA 6 LATH

Reference No. B-95 SUC STEAM SPED

Date Received 8-29-02

Date Analyzed 11-1-02

Verbal Results \_\_\_\_\_

FAX Results \_\_\_\_\_

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 (BPA) \_\_\_\_\_  
 20.5µm Length   
 >5µm Length \_\_\_\_\_  
 PCM Range\* \_\_\_\_\_  
 <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

SX640479 1200 ND ND 0.005

86-179

"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 (Yamat, et al.)

NIOSH 7402, Revision #1: 5/15/89 (NIOSH 7400 PCM equivalent range)

EMS LABORATORIES 117 West Bellevue Drive / Pasadena CA 9105-2503

P. TEM Analysis 11-1-02

# AIR SAMPLING DATA

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

### 4. EMPLOYEE INFORMATION

NAME OF EMPLOYEE <b>N/A</b>		SSH <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:** 10-29-04  
**Project:** Steam Plant TSI & TSI Debris  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 295 Room : Steam Plant Floor : Main

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	During Work/PCM	During Work/PCM	Clearanccs / TEM		
b. SAMPLE SUBMISSION NO.	SX040986	SX040987	SX040988		
c. TIME ON	08:15	08:25	08:35		
d. TIME OFF	10:15	10:25	10:25		
e. TOTAL TIME (in minutes)	120	120	120		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/min	10	10	10		
g. VOLUME (in liters)	1200	1200	1200		

### 8. RESULTS (For Laboratory Use)

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Cell/ing T = Time Weighted Average			a. PERCENTAGE	
Unit	F/CC	F/CC	S/mm <sup>2</sup>	b. TYPE
Asbestos ( PCM )	0.0016	0.0012		
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

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>10/29/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI- BRATION DATE <b>10/29/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

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

DATE  
**10/29/04**

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

Date: 10/29/04

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 10/29/04

Location: Bldg. 295 Room : Steam Plant Floor : Main

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM: TSI Debris

Quantity of ACM:

Abatement Type & Method(s): Procedure V Cleanup

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: 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:

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- 4. Inside Work Area: SX040985, SX040986
- 5. Clearance: SX040988
- 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 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. : 295, Floor : Main Rooms : Steam Plant 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 10/29/04 are as follows:
 

Bldg. <u>295</u>	Floor: <u>Main</u>	Room: <u>Steam Plant</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

86-182



# 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: 96983.1 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 11-1-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 10-29-04 Project #: B294 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B.SPIVEY File Name: 969831VAGLABS.AJR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040986	100	4	5	1962	1200.0	0.0016	0.0022	0.0257	0.0004
SX040987	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)

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.  
 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 / FAX: [REDACTED]

86-183

DATE: November 3, 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-C40433  
B295, Steam PlantSide  
REPORT NO: 96983  
DATE COLLECTED: 10/29/04 by K. Kelly  
DATE RECEIVED: 11/1/04 at 0730  
DATE ANALYZED: 11/1/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY


The sample was identified as: SX040988

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.

86-184

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 96983      ▶ Date Received 11/11/04      ▶ Verbal Results \_\_\_\_\_  
 ▶ Client V.A.G.L.A.H.S.      ▶ Date Analyzed 11/11/04      ▶ Fax Results \_\_\_\_\_  
 ▶ Location \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/> <input type="checkbox"/> INDIRECT PREP <input type="checkbox"/> <input type="checkbox"/>		ASPECT RATIO 3:1 <input type="checkbox"/> <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/> <input type="checkbox"/>	STRUCTURE SIZE All Sizes (EPA) <input type="checkbox"/> <input type="checkbox"/> ≥5 μm Length <input type="checkbox"/> ≥0.5 μm Length <input checked="" type="checkbox"/> <input type="checkbox"/> PCM Range* <input type="checkbox"/> ≥5 μm Length <input type="checkbox"/> <input type="checkbox"/> *(≥0.25 μm Width, ≥5.0 μm 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 040988	1200	-	N.D.	N.D.	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 \_\_\_\_\_

**TEM ASBESTOS AIR REPORT**

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 96983  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040988  
 RECEIVED: 11/1/04 ANALYZED: 11/1/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

REMARKS: LIGHT TO MODERATE DEBRIS

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

86-186

# TEM ASBESTOS ANALYSIS

EMS Lab No. 96983  
 Client VIA G.L.A.H.  
 Sample No. SX04098X

**RECEIVING**

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

LENGTHS  
 All Sizes (EPA)  
 (um) : > 0.3   
 (um) : > 5.0   
 (um) : > 10.0   
 PCM Range\*  
 10-25 um width, >5.0 um length

TYPE OF SAMPLE  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other   
 Dust/Microbec

FILTER TYPE/AREA (mm<sup>2</sup>)  
 MCIEG08   
 MCIEG14   
 MCIEG17   
 Other

PORE SIZE  
 0.45 um   
 0.8 um   
 0.1 um   
 0.22 um   
 Other

**PREP**

DIRECT PREP   
 INDIRECT PREP   
 Volume 1242 mls  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %  
 Date 11-1-04  
 Prepared By h

## ANALYSIS

Grid Address \_\_\_\_\_  
 Screen Magnification 1000  
 Camera Constant 214  
 Accelerating Voltage 100 KV  
 Beam Current 10 uA

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 11-1-04  
 Analyst Wade

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Amblygonus	Run Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
<u>HY-1</u>	<u>1</u>	<u>NA</u>														
<u>W-1</u>	<u>2</u>	<u>NA</u>														
<u>W-2</u>	<u>3</u>	<u>NA</u>														
<u>W-3</u>	<u>4</u>	<u>NA</u>														
<u>W-4</u>	<u>5</u>	<u>NA</u>														
<u>W-5</u>	<u>6</u>	<u>NA</u>														
<u>W-6</u>	<u>7</u>	<u>NA</u>														
<u>W-7</u>	<u>8</u>	<u>NA</u>														
<u>W-8</u>	<u>9</u>	<u>NA</u>														
<u>W-9</u>	<u>10</u>	<u>NA</u>														
<u>W-10</u>	<u>11</u>	<u>NA</u>														
<u>W-11</u>	<u>12</u>	<u>NA</u>														
<u>W-12</u>	<u>13</u>	<u>NA</u>														
<u>W-13</u>	<u>14</u>	<u>NA</u>														
<u>W-14</u>	<u>15</u>	<u>NA</u>														
<u>W-15</u>	<u>16</u>	<u>NA</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

86-187

# ITEM ANEBSTIOS ANALYSIS

EMS Lab No. 96983  
 Client VA WAFB  
 Sample No. 988

**RECEIVING**

**ANALYSIS**

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

Analyzed S.A Date 10/1/68

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

963 ALSO  
964 ALSO  
966 ALSO

16 Lines

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

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

881-98

SUBMITTAL FORM/Laboratory Services.

96983

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

RELINQUISHED BY KELLY  
TIME / DATE 10.29.04

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

DATE OF SHIPMENT  CARRIER   
CLIENT P.O. NO.   
CLIENT JOB/PROJECT ID NO(S) B295, STRAH PLANT SIDE

TELEPHONE [REDACTED]  
CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX

CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 10/29/04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 3 SAMPLER'S NAME [REDACTED]

SIGNATURE [REDACTED] 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	FAVORABLE
96983.1-6	SX040986	DURING	IWA	PCM	1200L		
↓ 7	SX040987	DURING	IWA	PCM			
96983-8	SX040988	CLEARANCE	IWA	TEM			

*Pls. contact clearance consultant ASAP by 12 noon w/ remaining samples to EMS LAB.*

(SF 5/00)

96983

Laboratory No. 96983  
Date of Package Delivery 11-1-04

Received By [Signature] Time 7:30  
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  
Date of Acceptance into Sample Bank 11-1-04  
Disposition of Samples EMF W/AY

Chain-of-Custody Signature [Signature]  
Misc. Info. 86-189

FOR EMILY

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO. <b>619</b>	3. REGION NO. <b>VISN #22</b>
<b>4. EMPLOYEE INFORMATION</b>			
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. <i>(If Additional Space is Needed Use Reverse)</i>			
<p><b>Date:</b> 11/01/04  <b>Project:</b> TSI ACM Removal  <b>Contractor:</b> Unlimited Environmental, Inc.  <b>Location:</b> Bldg. 304 Floor: 1<sup>st</sup></p>			
h. FREQUENCY (How long job takes) <b>N/A</b>	i. DURATION (How long at this job) <b>N/A</b>	j. NUMBER OF EMPLOYEES DOING THIS JOB <b>N/A</b>	
<b>5. SAMPLING INFORMATION</b>			
<i>(Fill in Sample No.)</i>		SAMPLE 1	SAMPLE 2
a. SAMPLE TYPE/MEDIA		During/PCM	During /PCM
b. SAMPLE SUBMISSION NO.		SX040989	SX040990
c. TIME ON		7:10	7:15
d. TIME OFF		10:20	10:25
e. TOTAL TIME (In minutes)		190	190
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min		10	10
g. VOLUME (In liters)		1900	1900
<b>6. RESULTS (For Laboratory Use)</b>			
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	
Result	.0105	.019	
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 Dr., Pasadena, CA 91105-2503			PAT NUMBER
10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
10a. (PRE) CALI-BRATION DATE <b>11/01/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>11/01/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
11. NAME & JOB TITLE (Person Performing Sampling) <b>Ted Davls, SST 97-2293</b>		DATE <b>11/01/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-190



Date: 11/01/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 11/01/04

Location: Building 304, 1<sup>st</sup> Floor

Abatement Company: Unlimited Environmental Inc. Phone Number: \_\_\_\_\_

Abatement Supervisor: Mauricio Fajardo

Type of ACM: TSI

Quantity of ACM: >100

Abatement Type & Method(s): Wet & Scrape/ Bag-up 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: N/A 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: SX040989-90

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

4. Inside Work Area: \_\_\_\_\_

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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: 3 Shower: Yes     No X

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

E. Neg. Air/HEPA Filtration Used: Yes     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. 304, 1<sup>st</sup> floor 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 08/11/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: <u>   </u>	<u>   </u> Structures/mm <sup>2</sup>
	Floor: <u>   </u>	Room: <u>   </u>	<u>   </u> Structures/inm <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: Ted Davis, SST 97-2293

86-192

# 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:** 97070      **Date Received:** 11-4-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analysed:** 11-8-04      **Mag:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 11-1-04      **Project #:** B304\_1ST FLR      **Filter Size:** 25MM  
LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 97070VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040989	100	40.5	52	19863	1900.0	0.0105	0.0014	0.0162	0.0003
SX040990	100	73	93	35803	1900.0	0.019	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      *Carl J. Bergman*  
 I.D. 7795      CARL BERGMAN      B.M. Kolk, Laboratory Director      *B.M. Kolk*  
 I.D. 2033      JEFF WAN  
 I.D. 3276      S.AHMAD

Interlaboratory Sr is taken as 0.45    Intra-laboratory Sr is 0.3      Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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**EMS LABORATORIES, 117 West Bellevue Dr., Pasadena, CA 91105-2503 / FAX: [REDACTED]**

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**SUBMITTAL FORM** Laboratory Services

**97070** PAGE  OF

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

RELINQUISHED BY: F. Davis  
 TIME / DATE: 11.01.04  
 DATE OF SHIPMENT: \_\_\_\_\_ CARRIER: \_\_\_\_\_  
 CLIENT P.O. NO.: \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S): \_\_\_\_\_  
 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.: \_\_\_\_\_

DATE/TIME OF SAMPLE COLLECTION: 11.01.04  
 SAMPLE PRESERVATIVES: NA HOLDING TIMES: NA  
 NO. OF SAMPLES SENT: 2 SAMPLER'S NAME: [Signature]  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	WEIGHT
<u>97070-89</u>	<u>SK040989</u>	<u>DRAINAGE / @ DEAN</u>		<u>PCM</u>	<u>1900L</u>	
<u>90</u>	<u>SK040990</u>	<u>DRAINAGE / IWA</u>		<u>PCM</u>	<u>1900L</u>	

FOR ECVLY (SF 5/00)

Laboratory No. **97070**  
 Date of Package Delivery: 11-4-04  
 Condition of Package on Receipt: \_\_\_\_\_  
 No. of Samples: 2  
 Date of Acceptance into Sample Bank: 11-4-04  
 Disposition of Samples: \_\_\_\_\_

Received By: [Signature] Time: 10:00  
 Shipping Bill Retained: YES  NONE   
 Condition of Custody Seal: \_\_\_\_\_  
 Chain-of-Custody Signature: \_\_\_\_\_  
 Misc. Info.: 486-

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION VA-GLAHS	2. STATION NO. 619	3. REGION NO VISN #22
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### 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:** 11/02/04  
**Project:** Penetration and Mastic Abatement  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 304, 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 1	SAMPLE 2	SAMPLE 3
a. SAMPLE TYPE/MEDIA	PRWRK/PCM	PRWRK/PCM	PRWRK/PCM
b. SAMPLE SUBMISSION NO.	SX040995	SX040996	SX040997
c. TIME ON	8:50	10:55	12:40
d. TIME OFF	10:50	12:55	14:00
e. TOTAL TIME (In minutes)	120	120	80
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/m3 F = Fibers C = Ceiling T = Time Weighted Average				a. PERCENTAGE
				b. TYPE
Unit	F/CC	F/CC	F/CC	
Result	.0022	.0029	.0049	

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 11/02/04	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE 11/02/04	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293 d Davis, SST 94-1379	DATE 8/02/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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86-194

Date: 11/02/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly and Ted Davis

Abatement Dates: 11/02/04

Location: Bldg. 304 Roof

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

Abatement Supervisor: Mauricio Fajardo

Type of ACM: Prevention Mastic

Quantity of ACM: <100 feet

Abatement Type & Method(s): Chop Cut and Peel/ Scrape

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: N/A 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: SX040995-97
- 3. Perimeter: \_\_\_\_\_

86-195

- 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     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: 3 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes     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. 304, Roof 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 11/02/04 are as follows:

Bldg <u>304</u>	Floor: <u>Roof</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>   </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 Kelly, SST 97-2293

86- 196

# 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: 97072 Date Received: 11-4-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 11-8-04 Meg: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11-2-04 Project #: B304, ROOF Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 97072VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT
SX040995	100	5.5	7	2697	1200.0	<b>0.0022</b>	0.0022	0.0257	0.0004
SX040996	100	7	9	3433	1200.0	<b>0.0029</b>	0.0022	0.0257	0.0004
SX040997	100	12	15	5885	1200.0	<b>0.0049</b>	0.0022	0.0257	0.0004

*W*

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 J. 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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 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 FAX: ~~XXXXXXXXXX~~

86-197



# SUBMITTAL FORM/Laboratory Services

97072

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.  RELINQUISHED BY KELLY  
 <8 HR.  WKND  OTHER:  TIME / DATE 11.02.04

CLIENT VA-GLAHS (130b) DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 ADDRESS 11301 WILSHIRE BLVD., BLDG 218 CLIENT P.O. NO. \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ B304, ROOF  
 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 11.02.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 3 SAMPLER'S NAME \_\_\_\_\_  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
 SIGNATURE [Signature] PRINTED KELLY

(FOR EMS ONLY)					VOLUME
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	TIME WEIGHT OF ANALYSIS
97072-95	SX040995	DURING / TOP		PCM	1200
96	SX040996	DURING / LOWER			
97	SX040997	DURING / AUX. SHALL NOT			

FOR EMS ONLY (SF 5/00)

Laboratory No. 97072 Received By [Signature] Time 10:00  
 Date of Package Delivery 11-4-04 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 3 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 11-4-04 Misc. Info. 86-198  
 Disposition of Samples [Signature]

# AIR SAMPLING DATA

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

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

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

**Date:** 11/02/04  
**Project:** Pipe Insul. Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 304, Room West Central Area Floor 1st

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			
a. SAMPLE TYPE/MEDIA	PRWRK/PCM			
b. SAMPLE SUBMISSION NO.	SX040998			
c. TIME ON	13:10			
d. TIME OFF	15:10			
e. TOTAL TIME (in minutes)	120			
f. FLOW RATE. <input checked="" type="checkbox"/> L/min <input type="checkbox"/> CF/min	10			
VOLUME (in liters)	1200			

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Celling T = Time Weighted Average		a. PERCENTAGE
Unit	F/CC	b. TYPE
Result	.0538	

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>
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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>11/02/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALI-BRATION DATE <b>11/02/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
---	--	--	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin Kelly, SST 97-2293</b>	DATE <b>11/02/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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86-199

Date: 11/02/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 11/02/04

Location: Bldg. 304, 1<sup>st</sup> Floor, West Central Area

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

Abatement Supervisor: Mauricio Fajardo

Type of ACM: Prevention Mastic

Quantity of ACM: <100 feet

Abatement Type & Method(s): Chop Cut and Peel/ Scrape

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: N/A 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: SX040998
  - 3. Perimeter: \_\_\_\_\_

86-200

- 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 \_\_\_ 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: 3 Shower: Yes \_\_\_ No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No \_\_\_
- E. Neg. Air/HEPA Filtration Used: Yes \_\_\_ 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. 304, 1<sup>st</sup> Floor, West Central Area 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 11/02/04 are as follows:

Bldg <u>304</u>	Floor: <u>1st</u>	Room: <u>West Central Area</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 Kelly, SST 97-2293

86-201

# 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:** 97073      **Date Received:** 11-4-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analysed:** 11-8-04      **Mag:** 400x      **Field Area:** 0.00785MM  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 11-2-04      **Project #:** B304, 1ST FLR      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** BSPIVEY      **File Name:** 17073VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol(Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT
SX040998	76	100	168	64532	1200.0	0.0538	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 *Carl J. Bergman*  
 I.D. 7795      CARL BERGMAN  
 I.D. 2033      JEFF WAN  
 I.D. 3276      S. AHMAD  
 B.M. Kolk, Laboratory Director *B.M. Kolk*

Interlaboratory Sr is taken as 0.45. Intralaboratory Sr is 0.3  
 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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 EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / FAX:

76-202

**SUBMITTAL FORM** / Laboratory Services

97073

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

RELINQUISHED BY Kelly  
 TIME / DATE 11.02.04

CLIENT VA CLAHS (130b) DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 ADDRESS 11307 WILSHIRE BLVD., BLDG 210 CLIENT P.O. NO. \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S) \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ B304, 15 FLORIDA WEST CENTRAL MBA  
 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 11.02.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 1 SAMPLER'S NAME [Signature] PRINTED K KELLY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SOIL BENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)					VOLUME
EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	TIME WEIGHT IF APPLICABLE
<u>97073-98</u>	<u>58040998</u>	<u>DRAINING / IWA</u>		<u>PCM</u>	<u>1200L</u>

(SF 5/00)

FOR EM ONLY

Laboratory No. 97073 Received By [Signature] Time \_\_\_\_\_  
 Date of Package Delivery 11-4-04 Shipping Bill Retained: YES  NO   
 Condition of Package on Receipt [Signature] Condition of Custody Seal \_\_\_\_\_  
 (NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
 No. of Samples 1 Chain-of-Custody Signature \_\_\_\_\_  
 Date of Acceptance into Sample Bank 11-4-04 Misc. Info. [Signature]  
 Disposition of Samples [Signature]

# 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**

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:** 11/02/04  
**Project:** Pipe Insulation Removal  
**Contractor:** Unlimited Environmental, Inc.  
**Location:** Bldg. 304, Floor : 1st Room : Central North Room

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	PR.WRK/PCM	PRWRK/PCM	PRWRK/PCM	PRWRK/PCM	TEM/CL
b. SAMPLE SUBMISSION NO.	SX040991	SX040992	SX040993	SX040994	SX040999
c. TIME ON	8:10	8:15	10:10	10:15	14:10
d. TIME OFF	10:10	10:15	12:10	12:15	15:30
e. TOTAL TIME (in minutes)	120	120	120	120	80
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M/min	10	10	10	10	15
VOLUME (in liters)	1200	1200	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	F/CC	F/CC	F/CC	Structure/mm <sup>2</sup>
Asbestos (PCM)	0.1220	0.0604	N/A	0.0775	
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

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 11/02/04	10b. FLOW RATE CALCULATIONS 10 - 15 liter/minute	10c. (POST) CALI-BRATION DATE 11/02/04	10d. FLOW RATE CALCULATIONS 10 - 15 liter/minute
--	---	---	---

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

86-204





- 4. Inside Work Area: \_\_\_\_\_
- 5. Clearance: SX040999
- 6. VAIH Laboratory: EMS Laboratories, Pasadena

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: ½ 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     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: 3 Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes X No
- E. Neg. Air/HEPA Filtration Used: Yes     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. 304, 1<sup>st</sup> Floor, Central North Room indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

B. Final Air Sampling Results: The results of the clearance air samples taken on 11/02/04 are as follows:

Bldg <u>304</u>	Floor: <u>1<sup>st</sup></u>	Room: <u>Central North</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 Kelly, SST 97-2293

86-206

# 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: 97071.1      Date Received: 11-4-04      Filter Type: MCE      Filter Area: 385  
 Client: VAGLAHS      Date Analysed: 11-8-04      Mag: 400x      Field Area: 0.00785MM<sup>2</sup>  
 Address: 11301 WILSHIRE BLVD      Date Sampled: 11-2-04      Project #: B304, 1ST FLR      Filter Size: 25MM  
LOS ANGELES, CA 90073      Attention: B SPIVEY      File Name: 97071.VAGLABSAP

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX040991	34	101.5	380	146413	1200.0	0.1220	0.0022	0.0257	0.0004
SX040992	68	100.5	188	72485	1200.0	0.06040	0.0022	0.0257	0.0004
SX040993	OVERLOADED				1200.0	N.A.			
SX040994	53	100.5	242	93000	1200.0	0.07750	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

AFHA Registered Asbestos Analyst

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

B.M. Kolk, Laboratory Director

Intralaboratory 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 / [REDACTED] FAX: [REDACTED]

86-207

**SUBMITTAL FORM/Laboratory Services**

97071

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

REINQUISHED BY KELLY  
 TIME / DATE 11.02.04

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

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

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

B304, 1<sup>st</sup> FL DEPT CENTRAL AREA  
 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 11.02.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 5 SAMPLER'S NAME \_\_\_\_\_

SIGNATURE [Signature] PRINTED 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 & APPROX
97071-91	SX040991	DURING / IWA	PCM	1200L
92	SX040992	DURING / OWA	↓	↓
93	SX040993	DURING / IWA	↓	↓
94	SX040994	DURING / OWA	↓	↓
97071-99	SX040999	CLEARANCE / IWA	TEM	↓

*Pls give RESULTS  
 of CLEARANCE ASAP by  
 12 noon 11/3 - Remaining samples returned to shipper.*

(SF 5/00)

FOR ENVILY

Laboratory No. 97071 Received By [Signature] Time 10:00

Date of Package Delivery 11-4-04 Shipping Bill Returned: YES  NONE

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

No. of Samples 4 + 1 Chain-of-Custody Signature \_\_\_\_\_

Date of Acceptance into Sample Bank 11-4-04 Misc. Info \_\_\_\_\_

Disposition of Samples [Signature] 86-208 SA

DATE: November 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-C40433  
B304, 1st Flr. Demo Central North  
REPORT NO: 97071  
DATE COLLECTED: 11/2/04 by K. Kelly  
DATE RECEIVED: 11/4/04 at 1000  
DATE ANALYZED: 11/4/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX040999

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.

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# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 97071  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_

▶ Date Received 11/4/04 Verbal Results  
 ▶ Date Analyzed 11/4/04 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 040999	1200	N.D.	N.D.	0	0.005	0.02

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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: 97071  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 040999  
 RECEIVED: 11/4/04 ANALYZED: 11/4/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

REMARKS: MODERATE DEBRIS

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

# TEM ANALYSIS

EMS Lab No. 3071  
 Client VA-GALHS  
 Sample No. 5X040999

**RECEIVING**

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

LENGTHS  
 All Sizes (EPA)  
 (µm) : < 0.5   
 (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  Wipes  Other   
 Dust/Microvac

FILTER TYPE/AREA (mm²)  
 MCE/386  MCE/314  MCE/1017  Other

PORE SIZE  
 0.45 µm  0.8 µm  1.1 µm  0.22 µm  Other

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

G.O. Area (mm²) 0.0 0.23  
 No. of G.O. to Analyze 7

## ANALYSIS

Grid Address \_\_\_\_\_  
 Screen Magnification \_\_\_\_\_  
 Camera Constant \_\_\_\_\_  
 Accelerating Voltage 100KV  
 Beam Current \_\_\_\_\_ µA

**A**

Analyst Ladler Date \_\_\_\_\_

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>233</u>		<u>W</u>														
<u>234</u>		<u>W</u>														
<u>235</u>		<u>W</u>														
<u>236</u>		<u>W</u>														
<u>237</u>		<u>W</u>														
<u>238</u>		<u>W</u>														
<u>239</u>		<u>W</u>														
<u>240</u>		<u>W</u>														
<u>241</u>		<u>W</u>														
<u>242</u>		<u>W</u>														
<u>243</u>		<u>W</u>														
<u>244</u>		<u>W</u>														
<u>245</u>		<u>W</u>														
<u>246</u>		<u>W</u>														
<u>247</u>		<u>W</u>														
<u>248</u>		<u>W</u>														
<u>249</u>		<u>W</u>														
<u>250</u>		<u>W</u>														

16 Lines

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

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

# TEM ASBESTOS ANALYSIS

EMS Lab No. 27071  
 Client VA GLASS  
 Sample No. SX040999

Page 1 of 1  
 MICROSCOPE

Old Address B H600A - Serial No. 542-36-01   
 Screen Magnification 1900 H600B - Serial No. 542-05-06   
 Camera Constant 28.9 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

## ANALYSIS

Analyst L Kore Date 11-4-04

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>E44</u>	<u>MSD</u>	<u>MSD</u>															
<u>E51</u>	<u>MSD</u>	<u>MSD</u>															
<u>H36</u>	<u>MSD</u>	<u>MSD</u>															

16 Lines

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

EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503

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## RECEIVING



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS (130b)</b>	2. STATION NO.	3. REGION NO. 22
--	----------------	---------------------

**4. EMPLOYEE INFORMATION**

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

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

**Date:** 11-03-04  
**Project:** Demolition monitoring for asbestos .  
**Contractor:**  
**Location:** Bldg. 304 ,1<sup>st</sup> Floor ,West Central Area

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 1000	SAMPLE10 01	SAMPLE10 02	SAMPLE10 03	SAMPLE 1004	SAMPLE 1005		
a. SAMPLE TYPE/MEDIA	IWA During Work	IWA During Work	IWA During Work	OWA During Work	IWA During Work	OWA During Work		
b. SAMPLE SUBMISSION NO.	SX041000	SX041001	SX041002	SX041003	SX041004	SX041005		
TIME ON	0715	0720	0950	0955	1325	1330		
c. TIME OFF	0915	0920	1150	1155	1525	1530		
e. TOTAL TIME (In minutes)	120	120	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	10	10		
g. VOLUME (In liters)	1200	1200	1200	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		
	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC	Date
Asbestos (PCM)	N.A	0.1521	N.A	0.0033	N.A	0.0051	11-03-04

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

8. IH COMMENTS TO LABORATORY  
PCM/TEM

a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

a. (PRE) CALI-BRATION DATE 11/03/04	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI-BRATION DATE 11/03/04	10d. FLOW RATE CALCULATIONS 10 liter / min
11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293		DATE 10/03/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

*pg - 214*

Date: 11/03/04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates : 11-03-04

Location: Bldg.304 , 1st Floor, West Central

Abatement Company: Unlimited Environmental Phone Number: \_\_\_\_\_

Abatement Supervisor : Rene

Type of ACM: TSI Pipe Insulation

Quantity of ACM : Sq. Ft.

Abatement Type & Method(s) 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 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 \_\_\_\_\_
- 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: SX041003 , SX041005

4. Inside Work Area : SX041000 ,SX041001 ,SX041002 , SX041004

86-215

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 X 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: -----

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. 304, Floor 1st Room: West Central 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 11/03/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1</u>	Room: <u>West Central Area</u>	<u>N.D</u>	Structures/m <sup>2</sup>
	Floor: <u>   </u>	Room: <u>   </u>		Structures/mm
	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 Kelly SST 97-2293

86-216

# 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:** 97098      **Date Received:** 11-5-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 11-9-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 11-3-04      **Project #:** B304, 1ST FLR      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 97098VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX041000	OVERLOADED				1200.0	N.A.			
SX041001	27	100.5	474	182555	1200.0	0.1521	0.0022	0.0257	0.0004
SX041002	OVERLOADED				1200.0	N.A.			
SX041003	100	8	10	3924	1200.0	0.0033	0.0022	0.0257	0.0004
SX041004	OVERLOADED				1200.0	N.A.			
SX041005	100	12.5	16	6131	1200.0	0.0051	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. 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      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 / FAX: [REDACTED]**

86-217

SUBMITTAL FORM/Laboratory Services

97098

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

RELINQUISHED BY Kelly  
TIME / DATE 11.03.04

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

DATE OF SHIPMENT  CARRIER   
CLIENT P.O. NO.   
CLIENT JOB/PROJECT ID NO(S) B204, 15 FL DEMO WEST CENTRAL AREA  
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 11.03.04  
SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
NO. OF SAMPLES SENT 6 SAMPLER'S NAME [Signature] SIGNATURE [Signature] PRINTED K Kelly  
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 FACTOR
97098-00	SX041000	DURING / IWA	[REDACTED]	PCM	1200L
01	SX041001	DURING / IWA	south east		
02	SX041002	DURING / IWA	by ocean		
03	SX041003	DURING / OWA	south east		
04	SX041004	DURING / IWA	by ocean		
05	SX041005	DURING / OWA	south east		

(SF 5/00)

FOR EMILY

Laboratory No. 97098 Received By [Signature] Time 10:00  
Date of Package Delivery 11-5-04 Shipping Bill Retained: YES  NONE   
Condition of Package on Receipt see Condition of Custody Seal   
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
No. of Samples 6 Chain-of-Custody Signature [Signature]  
Date of Acceptance into Sample Bank 11-5-04 Misc. Info 86-218  
Disposition of Samples [Signature]

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS (130b)</b>	2. STATION NO.	3. REGION NO. 22
--	----------------	---------------------

### 4. EMPLOYEE INFORMATION

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

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

**Date:** 11-03-04  
**Project:** Demolition monitoring for asbestos .  
**Contractor:**  
**Location:** Bldg. 304 , 1<sup>st</sup> Floor Employee Area Hall , 2<sup>nd</sup> Floor Hallway

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

### 6. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 1006	SAMPLE1007	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	IWA During Work	IWA During Work						
b. SAMPLE SUBMISSION NO.	SX041006	SX041007						
TIME ON	1335	1340						
TIME OFF	1535	1540						
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)	1650	1200						

### 8. RESULTS (For Laboratory Use)

P = PPM M = mg/m3 F = Fibers C = Ceiling T = Time Weighted Average					a. PERCENTAGE			
					b. TYPE			
	S/mm <sup>2</sup>	S/mm <sup>2</sup>						
Asbestos (TEM)	110	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

a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 11/03/04	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI-BRATION DATE 11/03/04	10d. FLOW RATE CALCULATIONS 10 liter / min
NAME & JOB TITLE (Person Performing Sampling) Ted Davis, CAC 94-1374		DATE 10/03/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-219

Date: 11/03/04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Ted Davis

Abatement Dates : 11-03-04

Location: Bldg.304 , Perimeter

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor : Rene

Type of ACM:

Quantity of ACM : Sq. Ft.

Abatement Type & Method(s) :

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     

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: SX041006 , SX041007

4. Inside Work Area :

86-220

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  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: 2 Shower: Yes  No

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

E. Neg. Air/ HEPA Filtration Used: Yes  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: \_\_\_\_\_

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. 304, Floor 1st & 2nd Room: Employee Area Hall & Hallway 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 11/03/04 are as follows:

Bldg. <u>304</u>	Floor: _____	Room: _____	Structures/mm <sup>2</sup>
	Floor: <u>2nd</u>	Room: <u>Hallway</u>	<u>N.D</u> 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: Ted Davis, CAC 94-137

86-221



DATE: November 10, 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-C40433  
B304, Perimeter Monitoring

REPORT NO: 97101

DATE COLLECTED: 11/3/04 by T. Davis

DATE RECEIVED: 11/5/04 at 1000

DATE ANALYZED: 11/5/04

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

SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: SX041006 1st Flr. Employee Area Hall  
SX041007 2nd Flr. Hallway

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*

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.

*86-222*

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 97101  
 Client V.A.G.L.A.F.S.  
 Location \_\_\_\_\_  
 Date Received 11/5/04 Verbal Results \_\_\_\_\_  
 Date Analyzed 11/5/04 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 (BPA) <input type="checkbox"/> ≥0.5 μm Length <input checked="" type="checkbox"/> ≥5 μm Length <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> (ng/m <sup>3</sup> )	Structures/mm <sup>2</sup>	Structure/cc	95% CONFIDENCE LEVELS	
					Analytical Sensitivity	Upper Limit

SX 041006	1650	-	110	0.03	0.004	0.009	0.05
SX 041007	1200	-	N.D.	N.D.	0.005	0	0.02

86-223

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 \_\_\_\_\_

# SUBMITTAL FORM/Laboratory Services

# 97101

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.  <8 HR.  VKN0  OTHER:

RELINQUISHED BY T. DAVIS  
TIME / DATE 11.03.04

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

DATE OF SHIPMENT  CARRIER   
CLIENT P.O. NO.

TELEPHONE   
CONTACT BEN SPIVEY

CLIENT JOB/PROJECT ID NO(S) B704, BELMONT MONITORING  
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 11.03.04  
SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 2 SAMPLER'S NAME T. DAVIS

SIGNATURE T. DAVIS PRINTED T. DAVIS

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO.

DESCRIPTION LOCATION ANALYSIS

QUANTITY  
DATE COLLECTED  
TIME

97101-6  
7

SK041006  
SK041007

1<sup>ST</sup> FL EMPLOYEE MEX HALL  
2<sup>ND</sup> FL HALLWAY

TEM  
TEM

1650L  
1200L

(SF 5/00)

FOF ONLY

Laboratory No. 97101 Received By [Signature] Time 10:00

Date of Package Delivery 11.5.04 Shipping BDL Rejected: YES  NONE

Condition of Package on Receipt [Signature] Condition of Custody Seal

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

Date of Acceptance into Sample Bank 11-5-04 Misc. Info. 86-224

Disposition of Samples TEM LANA

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97101  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1650 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041008  
 RECEIVED: 11/5/04 ANALYZED: 11/5/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0558  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	4	0.02 /cc
Fiber Length: Range(um) .....	0.6 - 1.5	MEAN 1 um
Fiber Diameter: Range(um) .....	0.05 - 0.05	MEAN 0.05 um
Aspect Ratio: Range .....	12 - 30	MEAN 20
Fibers <5um/ Fibers >=5um .....	4 / N.D.	0.02 / 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 .....	2	0.008 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>6</b>	<b>0.03 /cc</b>
Chrysotile .....	6	0.03 /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>4</b>	<b>0.02 /cc</b>
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>6</b>	<b>0.03 /cc</b>
Sensitivity Level(Structures/cc) .....		0.004
Lower 95% Confidence Limit(Structures/cc) .....		0.009
Upper 95% Confidence Limit(Structures/cc) .....		0.05
<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>110</b>	

REMARKS: MODERATE TO HEAVY DEBRIS

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

86-220

# TEM ANALYSIS

EMS Lab No. 97101  
 Client VAGLATS  
 Sample No. SX04008

**METHOD OF ANALYSIS**  
 EPA Yarnate Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO  5:1  5:1  
(4025µm width, 2050µm length)

**LENGTHS**  
 All Sizes (EPA)  
 (µm) : ≥ 0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCN Range\*

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

**FILTER TYPE/AREA (mm²)**  
 MCE/385   
 MCE/14   
 MCE/107   
 Other

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

G.O. Area (mm²) 0.23  
 No. of G.O. to Analyze 36

## PREP

**DIRECT PREP**   
**INDIRECT PREP**   
 Volume 1.50 liters  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

Date 11-05-04  
 Prepared By JAP

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

Analyst VLOWK  
 Date 11-5-04

## RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation	EDS Analysis					Comments			
			Width	Length	Thickness		Na	Mg	Si	Ca	Fe		Id		
C54	1	F	1	30		Chrysotile									
C54	2	F	1	20		Amphibole									
F55	3	MTC	90	90		No Pattern									
F55	3SD					Non Asbestos									
						Anthraquinone									
						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  Very Heavy  Very Heavy

8-Nov-2004 08:52:12

97101-41005, A, #01, LK

Preset= Off

Vert= 200 counts Disp= 1

Elapsed= 10 secs

Energy Counts X-Ray Lines

1.26 923. Mg K , Mg K , Mg K

1.75 1305. Si K , Si K

2.95 39. Ar K , Ar K

6.38 101. Fe K , Fe K

Quantex)

0.280

Range= 10.230 keV

10.230

Integral 0 = 0130

86-227

**EDS ANALYSIS**

EMS Lab No. 97101  
 Client VA GLASS  
 Sample No. SX-04006

Page 1 of 1  
 MICROSCOPE

Grid Address: H600A - Serial No. 542-36-01   
 Screen Magnification: 2000X - Serial No. 542-05-06   
 Current Constant: 100KV - Serial No. 542-24-03   
 Accelerating Voltage: 10   
 Beam Current: 10

**ANALYSIS**

Analyst SA Date 11/15/01

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>153</u>	<u>1</u>	<u>E</u>	<u>1</u>	<u>18</u>		<input checked="" type="checkbox"/>										<u>ENS 2</u>
<u>153</u>	<u>2</u>	<u>E</u>	<u>1</u>	<u>12</u>		<input checked="" type="checkbox"/>										<u>ENS 2</u>
<u>153</u>	<u>3</u>	<u>M</u>	<u>20</u>	<u>55</u>		<input checked="" type="checkbox"/>										<u>ENS #3</u>
<u>153</u>	<u>4</u>	<u>M</u>														
<u>153</u>	<u>5</u>	<u>M</u>														
<u>153</u>	<u>6</u>	<u>M</u>														
<u>153</u>	<u>7</u>	<u>M</u>														
<u>153</u>	<u>8</u>	<u>M</u>														
<u>153</u>	<u>9</u>	<u>M</u>														
<u>153</u>	<u>10</u>	<u>M</u>														
<u>153</u>	<u>11</u>	<u>M</u>														
<u>153</u>	<u>12</u>	<u>M</u>														
<u>153</u>	<u>13</u>	<u>M</u>														
<u>153</u>	<u>14</u>	<u>M</u>														
<u>153</u>	<u>15</u>	<u>M</u>														
<u>153</u>	<u>16</u>	<u>M</u>														

16 Lines

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

EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503

822-98

RECEIVING

TEM-28 (8-01)

8-Nov-2004 08:46:04

97101-41006, B, #01, SA                   Preset= Off  
Vert= 200 counts Disp= 1                   Elapsed= 9 secs  
Energy Counts X-Ray Lines

1.26	900.	Mg K , Mg K , Mg K
1.76	1861.	Si K , Si K
5.41	30.	Cr K , Cr K
6.39	83.	Fe K , Fe K

Quantex)  
0.280 Range= 10.230 keV                   Integral 0 = 7492

8-Nov-2004 08:49:45

97101-41006, B, #02, SA                   Preset= Off  
Vert= 200 counts Disp= 1                   Elapsed= 19 secs  
Energy Counts X-Ray Lines

1.26	1581.	Mg K , Mg K , Mg K
1.76	2143.	Si K , Si K
6.38	119.	Fe K , Fe K

Quantex)  
0.280 Range= 10.230 keV                   Integral 0 = 13153

86-229



8-Nov-2004 08:50:22

97101-41006, B, #03, SA

Preset= Off

Vert= 200 counts Disp= 1

Elapsed= 30 sec

Energy Counts X-Ray Lines

1.27 2191. Mg K , Mg K , Mg K

1.76 2969. Si K , Si K

6.38 175. Fe K , Fe K

Quantex)

0.230 Range= 10.230 keV

10.230

Integral 0 = 15209

86 - 23<sup>0</sup>

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97101  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041007  
 RECEIVED: 11/5/04 ANALYZED: 11/5/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

REMARKS: LIGHT TO MODERATE DEBRIS

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

86-231

# TEM ANALYSIS

EMS Lab No. 97101

Client VA-GIANTS

Sample No. SK041007

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

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

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

**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) 0.0  
 No. of G.O. to Analyze 03

## RECEIVING

**PREP**  
 DIRECT PREP  INDIRECT PREP   
 Volume 200 µl  
 Working Volume 0.1 µl  
 Weight 100 µg  
 Ashed Area     %  
 Date 1-25-04  
 Prepared By JAP

## ANALYSIS

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

**A**  
 Date 1/25/04  
 Analyst SA

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments		
			Width	Length	Thickness	Chrysolite	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe
<u>E33 A150</u>																
<u>E33 A150</u>																
<u>E33 A150</u>																
<u>E33 A150</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

*fb-231*

**ELMI ANALYTICAL LABORATORIES ANALYSIS**

EMS Lab No. 97101  
 Client VA CLINICALS  
 Sample No. SX041007

**RECEIVING**

**ANALYSIS**

Grid Address: H600A - Serial No. 542-36-01   
 Screen Magnification: 1000X - Serial No. 542-05-06   
 Current Constant: H600C - Serial No. 542-24-03   
 Accelerating Voltage: 100 KV  
 Beam Current: 10  $\mu$ A

Analyst S.A. Date 11/5/01

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysolite	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>H5</u>	<u>1</u>	<u>N50</u>															
<u>G14</u>	<u>3</u>	<u>N50</u>															
<u>G13</u>	<u>3</u>	<u>N50</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  Scrapy  Undissolved Filter  Folded

**EMS LABORATORIES** 117 West Bellevue Drive • Pasadena, CA 91105-2503 •

86-223

**SUBMITTAL FORM** / Laboratory Services

97101

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

RELIQUISHED BY T. DAVIS

TIME / DATE 11.03.04

CLIENT VA-GLAHS (130b)

DATE OF SHIPMENT CARRIER

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

CLIENT P.O. NO.

TELEPHONE

CLIENT JOB/PROJECT ID NO(S)  
 B-704, PCB/MERCU MONITORING

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 11.03.04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 2

SAMPLER'S NAME T. DAVIS

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.  
 97101-6  
 ↓  
 7

CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME TIME WEIGHT IF APPLICABLE
SX041006	1 <sup>ST</sup> FL EMPLOYEE AREA HALL		TEH	1650L
SX041007	2 <sup>ND</sup> FL HALLWAY		TEH	1200L

(SF 5/00)

97101

Laboratory No. Received By [Signature] Time 10<sup>00</sup>

Date of Package Delivery 11-5-04 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 2 Chain-of-Custody Signature

Date of Acceptance into Sample Bank 11-5-04 Misc. Info.

Disposition of Samples [Signature] 86-234

FOR EIL VILY

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS (130b)</b>	2. STATION NO.	3. REGION NO. 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:** 11-0404  
**Project:** Demolition monitoring for asbestos and Pipe Insulation Removal & Cleanup  
**Contractor:**  
**Location:** Bldg. 304 , 1<sup>st</sup> Floor , West Central Area

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 1008	SAMPLE 1009	SAMPLE 1010	SAMPLE 1011	SAMPLE 1012
a. SAMPLE TYPE/MEDIA	IWA During Work	OWA During Work	IWA Clearances /TBM	IWA South End clearance	Pre - Work
b. SAMPLE SUBMISSION NO.	SX041008	SX041009	SX041010	SX041011	SX041012
c. TIME ON	0740	0745	1350	1355	1115
d. TIME OFF	0940	0945	1530	1535	1325
e. TOTAL TIME (In minutes)	120	120	100	100	120
f. FLOWRATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cfm	10	10	12	12	10
g. VOLUME (In liters)	1200	1200	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
	F/CC	F/CC	S/mm <sup>2</sup>	S/mm <sup>2</sup>	F/CC
Asbestos (PCM)	N.A	0.0014			0.0705
Asbestos (TEM)			N.D	N.D	

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

8. IH COMMENTS TO LABORATORY  
 PCM /TEM

9. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr, Pasadena , CA91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

9a. (PRE) CALI-BRATION DATE 11/04/04	10b. FLOW RATE CALCULATIONS 10 -12 liter/min	10c. (POST) CALI-BRATION DATE 11/04/04	10d. FLOW RATE CALCULATIONS 10 -12 liter/min
11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293		DATE 10/04/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-235

Date: 11/04/04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates : 11-04-04

Location: Bldg.304 , 1st Floor, West Central

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor : Rene

Type of ACM: TSI Pipe Insulation

Quantity of ACM : Sq. Ft.

Abatement Type & Method(s) 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 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 \_\_\_\_\_
- 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: SX041012
- 3. Perimeter: SX041009
- 4. Inside Work Area : SX041008

86-236

5. Clearance : SX041010, SX041011

6. VAIH Laboratory: EMS Laboratories, Pasadena

III. Contractor's PPE:

A. Respirator Type & Manufacturer: ½ 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 X 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 :                     

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. 304, Floor 1st Room : West Central 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 11/03/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1</u>	Room: <u>West Central Area</u>	<u>N.D</u>	Structures/m <sup>2</sup>
	Floor: <u>    </u>	Room: <u>    </u>		Structures/mm
	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 Kelly SST 97-2293

86-237



# 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: 97102.1 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 11-9-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11-4-04 Project #: R304.1ST FLR Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 97102.1VAGLABSAIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol.(Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX041008	OVERLOADED				1200.0	N.A.			
SX041009	100	3.5	4	1717	1200.0	0.0014	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. 7795 Carl Bergman B.M. Kolk, Laboratory Director  
 I.D. 2033 Jeff Wan  
 I.D. 3276 S. Ahmad

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

EMS LABORATORIES 117 West Bellevue Dr. / Pasadena, CA 91105-2503 / FAX: [REDACTED]

86-238

# 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:** 97100      **Date Received:** 11-5-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 11-8-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 11-4-04      **Project #:** B304, 1ST FLR      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 97100VAGLAHS.AUR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (L.it)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX04101Z	58	100	220	84560	1200.0	0.0705	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      *Carl Bergman*  
 I.D. 7795      CARL BERGMAN      B.M. Kolk, Laboratory Director      *B.M. Kolk*  
 I.D. 2033      JEFF WAN  
 I.D. 3276      S.AHMAD

Interlaboratory Sr is taken as 0.45    Interlaboratory Sr is 0.3  
 NOTE: This report shall not be reproduced, except in full, without the written approval of EMS Laboratories, Inc.  
 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 / FAX: [REDACTED]**

86-289

SUBMITTAL FORM/Laboratory Services

97102

PAGE 1 OF 1

TURNAROUND TIME: STD 48 HR. 24 HR. 8 HR. WKND OTHER: SEE BELOW RELINQUISHED BY: Kelly TIME/DATE: 11.04.04

CLIENT: VA-GLASS (130b) DATE OF SHIPMENT: CARRIER: ADDRESS: 11301 WILSHIRE BLVD., BLDG 218 CLIENT P.O. NO.: LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S): TELEPHONE: B304, 15 FL NGA10, WEST CENTRAL AREA CONTACT: BEN SPIVEY PACKAGE SHIPPED FROM:

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

DATE/TIME OF SAMPLE COLLECTION: 11.04.04 SAMPLE PRESERVATIVES: n/a HOLDING TIMES: n/a NO. OF SAMPLES SENT: 4 (2+2) SAMPLER'S NAME: [Signature] PRINTED: Kelly TYPE: [ ] WATER [ ] WASTE WATER [ ] SOIL [ ] FILTER [ ] SORBENT TUBE [ ] IMPINGER [ ] OTHER

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION/LOCATION	ANALYSIS	
97102-8	SK041008	DUMPING/DWA BY DEED	PCM	1200L
9	SK041009	DUMPING/DWA BY DEED	PCM	
97102-10	SK041010	CLEARANCE/1WA BY DEED	TEM	
97102-11	SK041011	CLEARANCE/1WA BY DEED	TEM	
2P 11-5-04				

FOR ONLY (SF 5/00)

Laboratory No. 97102 Received By: [Signature] Date of Package Deliv.: 11-5-04 Shipping Bill Retained: YES [x] 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+2 Date of Acceptance into Sample Bank: 11-5-04 Disposition of Samples: [Signature]

# SUBMITTAL FORM / Laboratory Services

**97100**

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

RELINQUISHED BY Kelly  
 TIME / DATE 11.04.04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S) B204, 1<sup>ST</sup> FL DEMO WEST CENTRAL NE AREA  
 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 11-04-04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 1 SAMPLER'S NAME [Signature] / K Kelly  
SIGNATURE PRINTED  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS
<u>97100-12</u>	<u>SK041012</u>	<u>PREWORK / I/A</u>		<u>PCM 1200L</u>
<del>_____</del>				
<del>_____</del>				
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(SF 5/00)

FOR EM ILY

Laboratory No. 97100  
 Date of Package Delivery 11-5-04  
 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 1  
 Date of Acceptance into Sample Bank 11-5-04  
 Disposition of Samples [Signature]  
 Received By [Signature] Time 10:00  
 Shipping Bill Returned: YES  NONE   
 Condition of Custody Seal \_\_\_\_\_  
 Chain-of-Custody Signature \_\_\_\_\_  
 Misc. Info. 96-241

DATE: November 10, 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-C40433  
B304, 1st Flr. Demo, West Centr. Area

REPORT NO: 97102

DATE COLLECTED: 11/4/04 by K. Kelly

DATE RECEIVED: 11/5/04 at 1000

DATE ANALYZED: 11/5/04

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

SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

The samples were identified as: SX041010, SX041011

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.

86-242

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

82-28

▶ EMS Laboratory No. 97102  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 11/5/04 Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 11/5/04 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"/> <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/> <input type="checkbox"/>	STRUCTURE SIZE All Sizes (EPA) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ≥0.5 μm Length <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ≥5 μm Length <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> * (≥0.25 μm Width, ≥5.0 μm 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 041010	1200	N.D.	N.D.	0	0.005	0.02
SX 041011	1200	N.D.	N.D.	0	0.005	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 \_\_\_\_\_


**FMS LABORATORIES**  
 11401 Belleme Drive / Pasadena CA 91105-2503 / FAX: \_\_\_\_\_

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS (130b)</b>	2. STATION NO.	3. REGION NO. 22
--	----------------	---------------------

**4. EMPLOYEE INFORMATION**

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

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

**Date:** 11-05-04

**Project:** Demolition monitoring for asbestos of 1<sup>st</sup> Fl & 2<sup>nd</sup> Fl Hall. TSI Removal In West Central East Area .

**Contractor:**

**Location:** Bldg. 304 , 1<sup>st</sup> Fl & 2<sup>nd</sup> Fl Hall , West Central East Area

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 1013	SAMPLE1014	SAMPLE1015	SAMPLE 1016	SAMPLE 1017	SAMPLE
a. SAMPLE TYPE/MEDIA	IWA West Central East	IWA West Central East	OWA /TEM	IWA West Central East North	IWA West Central East South	
b. SAMPLE SUBMISSION NO.	SX041013	SX041014	SX041015	SX041016	SX041017	
TIME ON	0710	0715	0810	0920	0925	
c. TIME OFF	0910	0915	0950	1120	1125	
e. TOTAL TIME (in minutes)	120	120	100	120	120	
f. FLOW RATE <input checked="" type="checkbox"/> L/min <input type="checkbox"/> M <sup>3</sup> /min	10	10	12	10	10	
g. VOLUME (in liters)	1200	1200	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		
	F/CC	F/CC	S/mm <sup>2</sup>	F/CC	F/CC	
Asbestos (PCM)	N.A	N.A		N.A	N.A	
Asbestos (TEM)			N.D			

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

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

**8. IH COMMENTS TO LABORATORY**  
PCM /TEM

a. ANALYTICAL LABORATORY NAME <b>EMS Laboratories</b>	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER

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

(PRE) CALI-BRATION DATE 11/05/04	10b. FLOW RATE CALCULATIONS 10 -15 liter/min	10c. (POST) CALI-BRATION DATE 11/05/04	10d. FLOW RATE CALCULATIONS 10 -15 liter/min
11. NAME & JOB TITLE (Person Performing Sampling) Ted Davis , CAC 94-1378		DATE 10/05/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-299

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION VA-GLAHS (130b)	2. STATION NO.	3. REGION NO. 22
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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 CDNTROLS, AND EQUIPMENT BEING USED.**  
(If Additional Space is Needed Use Reverse).  
**Date:** 11-05-04  
**Project:** Demolition monitoring for asbestos of 1<sup>st</sup> Fl & 2<sup>nd</sup> Fl Hall. TSI Removal In West Central East Area .  
**Contractor:**  
**Location:** Bldg. 304 , 1<sup>st</sup> Fl & 2<sup>nd</sup> Fl Hall , West Central East Area

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
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5. SAMPLING INFORMATION									
(Fill in Sample No.)	SAMPLE 1018A	SAMPLE 1018B	SAMPLE 1018C	SAMPLE 1018D	SAMPLE 1018E	SAMPLE 1018F	SAMPLE 1018G	SAMPLE 1018H	SAMPLE 1019
a. SAMPLE TYPE/MEDIA	OWA (During Work)	OWA (During Work)	OWA (During Work)	OWA (During Work)	OWA (During Work)	OWA (During Work)	OWA (During Work)	OWA (During Work)	OWA (During Work) 2 <sup>nd</sup> Fl.
b. SAMPLE SUBMISSION NO.	SX041018 A	SX041018B	SX041018 C	SX041018 D	SX041018 E	SX041018 F	SX041018 G	SX041018 H	SX041019
c. TIME ON	09:30	10:10	10:20	10:30	10:40	10:50	11:00	11:10	09:30
d. TIME OFF	10:00	10:20	10:30	10:40	10:50	11:00	11:10	11:20	11:30
e. TOTAL TIME (in minutes)	20	10	10	10	10	10	10	10	120
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cc/min	15								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		
	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC	F/CC
Asbestos (PCM)	N.A	0.0819	0.0100	0.0448	0.0511	0.0178	0.015	0.0116	0.0016
Asbestos (TEM)									

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

8. IH COMMENTS TO LABORATORY PCM /TEM	
a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)			
10a. (PRE) CALI-BRATION DATE 11/05/04	10b. FLOW RATE CALCULATIONS 10 -15 liter/min	10c. (POST) CALI-BRATION DATE 11/05/04	10d. FLOW RATE CALCULATIONS 10 -15 liter/min
NAME & JOB TITLE (Person Performing Sampling) Ted Davis , CAC 94-1378		DATE 10/05/04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

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3. Perimeter: SX041015, SX041018, SX041019
4. Inside Work Area: SX041013, SX041014, SX041016, SX041017
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 X 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 : Forster
- 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. 304, Floor 1<sup>st</sup> & 2<sup>nd</sup> Floor Hall in West Central East Area 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 11/05/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1</u>	Room: West Central East	<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 : Ted Davis CAC 94-1378

86-247

# 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: 97124 Date Received: 11-8-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 11-8-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11-5-04 Project #: R304, 1ST FLR Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 91124VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT
SX041013	OVERLOADED				1200.0	N.A.			
SX041014	OVERLOADED				1200.0	N.A.			
SX041016	OVERLOADED				1200.0	N.A.			
SX041017	OVERLOADED				1200.0	N.A.			
SX041018A	OVERLOADED				1200.0	N.A.			
SX041018B	66	100	193	74310	1200.0	0.0619	0.0022	0.0257	0.0004
SX041018C	100	24.5	31	12016	1200.0	0.0100	0.0022	0.0257	0.0004
SX041018D	91	100	140	53895	1200.0	0.0449	0.0022	0.0257	0.0004
SX041018E	80	100	159	61306	1200.0	0.0511	0.0022	0.0257	0.0004
SX041018F	100	43.5	55	21334	1200.0	0.0178	0.0022	0.0257	0.0004
SX041018G	100	37	47	18146	1200.0	0.015	0.0022	0.0257	0.0004
SX041018H	100	28.5	36	13978	1200.0	0.0116	0.0022	0.0257	0.0004
SX041019	100	4	5	1962	1200.0	0.0016	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

Inferlaboratory Sr is taken as 0.45 Inferlaboratory Sr is 0.3 Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3  
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86.248

DATE: November 10, 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-C40433  
B304, 1st Flr. Demo  
REPORT NO: 97124.1  
DATE COLLECTED: 11/5/04 by K. Kelly  
DATE RECEIVED: 11/8/04 at 0915  
DATE ANALYZED: 11/9/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY


The sample was identified as: SX041015

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.

86-249

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. 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)
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g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED.  
(If Additional Space is Needed Use Reverse).

**Date:** 11-12-04

**Project:** Foot Mastic new R/R inside Employee Health waiting room & North Hall Closet, Pipe insulation for East Hall phone network room, TSI on South Hall & North Lobby.

**Contractor:** Unlimited Environmental, Inc

**Location:** Bldg. 304 , 1st Floor East Hall Ph. Network Room ,North Hall

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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
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5. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 1063	SAMPLE 1064	SAMPLE 1065	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	OWA Ncw R/R(During work)	OWA E. Hall Ph. NTK RM (During Work)	IWA By Lobby TSI Clearanc			
b. SAMPLE SUBMISSION NO.	SX041063	SX041064	SX041065			
c. TIME ON	1010	1110	1120			
TIME OFF	1150	1250	1300			
TOTAL TIME (In minutes)	100	100	100			
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> c/min	12	12	12			
g. VOLUME (In liters)	1200	1200	1200			

6. RESULTS (For Laboratory Use)

P = PPM    M = mg/m3    F = Fibers    C = Celling    T = Time Weighted Average				a. PERCENTAGE		
				b. TYPE		
Unit	S/mm <sup>2</sup>	S/mm <sup>2</sup>	F/CC			
Asbestos (PCM)			N.A			
Asbestos (TEM)	N.D.	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 NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 11-12-04	10b. FLOW RATE CALCULATIONS 12 liter / min	10c. (POST) CALI-BRATION DATE 11-12-04	10d. FLOW RATE CALCULATIONS 12 liter / min
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11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin Kelly ,SST 97-2293</b>	DATE 11-12-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
--	------------------	---

Date: 11-12-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates : 11-12-04

Location : Bldg. 304 , 1st Floor East Hall Ph. Network Room ,North Hall

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM : Mastic Removal & TSI on Pipe insulation

Quantity of ACM : sq-ft

Abatement Type & Method(s): Glove bag

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: \_\_\_\_\_

162-78

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: SX041058, SX041059, SX041065

4. Inside Work Area:

- 5. Clearance: SX041060 to SX041064
- 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. 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:     Shower: Yes     No X
- D. If Containment in Use, are Critical Openings Properly Sealed: 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 : Forster
- 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.304 , Floor 1<sup>st</sup>, South Hall & East 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 11/22/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: North Hall	<u>N.D.</u> Structures/mm <sup>2</sup>
	Floor: <u>1st</u>	Room: East Hall	<u>N.D.</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 Kelly , SST97-2293

86-292

# 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: 97232.1 Date Received: 11-15-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analysed: 11-15-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11-12-04 Project #: B304, 1ST FLR Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 97232.1VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol.(Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT
SX041058	100	31	39	15204	1200.0	0.013	0.0022	0.0257	0.0004
SX041059	OVERLOADED				1200.0	N.A.			
SX041065	OVERLOADED				1200.0	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. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S.AHMAD



B.M. Kolk, Laboratory Director



Intralaboratory Sr is taken as 0.45 Intralaboratory Sr is 0.3

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

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86-293



# 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: 97232.1 Date Received: 11-15-04 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Analyzed: 11-15-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 11-12-04 Project #: R304, 1ST FLR Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 97232.1VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol.(Lit.)	Fibers/CC	LOD	LOQ	ANL-SENT
SK041058	100	31	39	15204	1200.0	0.013	0.0022	0.0257	0.0004
SK041059	OVERLOADED				1200.0	N.A.			
SK041065	OVERLOADED				1200.0	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

ADHA 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. Interlaboratory Sr is 0.3

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86-224

# SUBMITTAL FORM/Laboratory Services

# 97232

AGE  GF

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

RELINQUISHED BY K Kelly  
TIME / DATE 11.12.04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S). D304, FEL DEMO  
PACKAGE SHIPPED FROM \_\_\_\_\_

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

DATE/TIME OF SAMPLE COLLECTION 11.12.04  
SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
NO. OF SAMPLES SENT 8 (5+3) SAMPLER'S NAME [Signature] SIGNATURE  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_ PRINTED K Kelly

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO	DESCRIPTION	LOCATION	ANALYSIS	TIME
97232.1-58	SX041058	DURING / OWA NEW HR		PCM	1200L
↓ 59	SX041059	DURING / OWA E. HALL PTH		PCM	
97232-60	SX041060	CLEARANCE / OWA LOBBY TS		TEM	
61	SX041061	CLEARANCE / OWA S. HALL E			
↓ 62	SX041062	CLEARANCE / OWA S. HALL MID			
63	SX041063	CLEARANCE / OWA E. HALL PTH			
↓ 64	SX041064	CLEARANCE / OWA NEW HR			
97232.1-65	SX041065	DURING / OWA N. HALL CLOSET		PCM	↓

*Pls provide results of (SX041061 thru SX041064) CLEARANCE ASAP 1:00 PM NOV 11/5. Remaining samples standard test.*

(SF 5/00)

FOR EMS ONLY

Laboratory No. 97232  
Date of Package Delivery 11-15-04  
Received By [Signature] Time 10:00  
Shipping Bill Returned: YES  NONE   
Condition of Package on Receipt \_\_\_\_\_ Condition of Custody Seal \_\_\_\_\_  
(NOTE: If the package has sustained substantial damage or the custody seal is broken, stop and contact the project manager and the shipper.)  
No. of Samples 5 + 3 Chain-of-Custody Signature \_\_\_\_\_  
Date of Acceptance into Sample Bank 11-15-04 Misc. Info [Signature]  
Disposition of Samples [Signature]

568-98

DATE: November 16, 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-C40433  
B304, 1st Flr. Demo

REPORT NO: 97232

DATE COLLECTED: 11/12/04 by K. Kelly

DATE RECEIVED: 11/15/04 at 1000

DATE ANALYZED: 11/15/04

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

SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

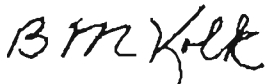
The samples were identified as: SX041060 to SX041064

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.

86-296

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 97232  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_

▶ Date Received 11/15/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 11/15/04 ▶ Fax Results \_\_\_\_\_

DIRECT PREP <input checked="" type="checkbox"/>	ASPECT RATIO	STRUCTURE SIZE
INDIRECT PREP <input type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/> $\geq 5 \mu\text{m}$ Length <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"/>
		$\geq 5 \mu\text{m}$ 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 041060	1200	-	31	0.01	0.005	0.001	0.04
SX 041061	1200	-	15	0.005	0.005	0.0005	0.03
SX 041062	1200	-	N.D.	N.D.	0.005	0	0.02
SX 041063	1200	-	N.D.	N.D.	0.005	0	0.02
SX 041064	1200	-	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 \_\_\_\_\_ *JG-207*

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97232  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041060  
 RECEIVED: 11/15/04 ANALYZED: 11/15/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D.	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range .....	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Amphibole Fibers .....	2	0.01 /cc
Fiber Length: Range(um) .....	4.4 - 7.3	MEAN 5.8 um
Fiber Diameter: Range(um) .....	0.3 - 0.8	MEAN 0.5 um
Aspect Ratio: Range .....	9.3 - 17	MEAN 13
Fibers <5um/ Fibers >=5um .....	1 / 1	0.005 / 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>2</b>	<b>0.01 /cc</b>
Chrysotile .....	N.D.	N.D. /cc
Amphibole .....	2	0.01 /cc
Crocidolite .....	N.D.	N.D. /cc
Tremolite .....	N.D.	N.D. /cc
Amosite .....	2	0.01 /cc
Anthophyllite .....	N.D.	N.D. /cc
Actinolite .....	N.D.	N.D. /cc
<b>TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES</b> .....	<b>2</b>	<b>0.01 /cc</b>
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	<b>2</b>	<b>0.01 /cc</b>
Sensitivity Level(Structures/cc) .....		0.005
Lower 95% Confidence Limit(Structures/cc) .....		0.001
Upper 95% Confidence Limit(Structures/cc) .....		0.04
<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>31</b>	

88-298

REMARKS: HEAVY TO VERY HEAVY DEBRIS

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

# TEM ANALYSIS

EMS Lab No. 97232

Client VA-GRANTS

Sample No. SX041060

### METHOD OF ANALYSIS

EPA Year 18 Level I

Level II

Level III

AHERA

ASPECT RATIO  3:1  5:1

### LENGTHS

All Sizes (EPA)

( $\mu$ m)  $\geq$  0.5

( $\mu$ m)  $>$  5.0

( $\mu$ m)  $>$  10.0

PCM Range\*

(\*0.25  $\mu$ m min,  $\infty$  0.0  $\mu$ m max)

### 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  $\mu$ m

0.8  $\mu$ m

0.1  $\mu$ m

0.22  $\mu$ m

Other

### ANALYSIS

DIRECT PREP

INDIRECT PREP

Volume 200 Bars

Working Volume \_\_\_\_\_ ml

Weight \_\_\_\_\_ grams

Ashed Area \_\_\_\_\_ %

Date 11-15-04

Prepared By [Signature]

Grid Address \_\_\_\_\_

Screen Magnification \_\_\_\_\_

Camera Constant \_\_\_\_\_

Accelerating Voltage 100 KV

Beam Current 10  $\mu$ A

Page \_\_\_\_\_ of \_\_\_\_\_

### MICROSCOPE

H600A - Serial No. 542-36-01

H600B - Serial No. 542-05-06

H600C - Serial No. 542-24-03

# A

Analyst S.A

Date 11-15-04

### EDS Analysis

Na Mg Si Ca Fe Id

1 10 7

### SAED Observation

Chrysotile

Amphibole

Ambiguous

Non Asbestos

Ro Pattern

### Dimension (mm)

Width \_\_\_\_\_

Length \_\_\_\_\_

Thickness \_\_\_\_\_

### Grid Opening

Structure \_\_\_\_\_

Structure \_\_\_\_\_

Number \_\_\_\_\_

### Comments

Grid 13 - V51  
Grid 13 - V52  
Grid 13 - V53  
Grid 13 - V54  
Grid 13 - V55  
Grid 13 - V56  
Grid 13 - V57  
Grid 13 - V58  
Grid 13 - V59  
Grid 13 - V60  
Grid 13 - V61  
Grid 13 - V62  
Grid 13 - V63  
Grid 13 - V64  
Grid 13 - V65  
Grid 13 - V66  
Grid 13 - V67  
Grid 13 - V68  
Grid 13 - V69  
Grid 13 - V70  
Grid 13 - V71  
Grid 13 - V72  
Grid 13 - V73  
Grid 13 - V74  
Grid 13 - V75  
Grid 13 - V76  
Grid 13 - V77  
Grid 13 - V78  
Grid 13 - V79  
Grid 13 - V80  
Grid 13 - V81  
Grid 13 - V82  
Grid 13 - V83  
Grid 13 - V84  
Grid 13 - V85  
Grid 13 - V86  
Grid 13 - V87  
Grid 13 - V88  
Grid 13 - V89  
Grid 13 - V90  
Grid 13 - V91  
Grid 13 - V92  
Grid 13 - V93  
Grid 13 - V94  
Grid 13 - V95  
Grid 13 - V96  
Grid 13 - V97  
Grid 13 - V98  
Grid 13 - V99  
Grid 13 - V100

Amosite

16 Lines

### OBSERVATIONS:

Clean

Debris:

Gypsum:

Condition of the Grid:

Very Light

Light

Light

Scrappy

Moderate

Moderate

Undissolved Filter

Heavy

Heavy

Folded

Very Heavy

Very Heavy

86-299



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

15-Nov-2004 12:10:04

97232-60, A, H01, SA

Preset= Off

Verbs= 200 counts Disp= 1

Elapsed= 22 secs

Energy Counts X-Ray Lines

1.27 142. Mg K , Mg K , Mg K

1.76 1436. Si K , Si K

3.72 243. Ca K , Ca K

5.88 59. Mn K , Mn K

6.41 970. Fe K , Fe K

7.05 124. Fe K , Fe K

Quantex)

0.000 Range= 10.230 keV

Integral 0 = 10.110  
12472

86-300

**RECEIVING**

**LEVI APPELS IUS ANALYSIS**

EMS Lab No. 97232

Client VA Staffs

Sample No. 5X041060

Page **1** of **1**

MICROSCOPE

**ANALYSIS**

GMI Address B H600A - Serial No. 542-36-01   
Screen Magnification X100 XH600B - Serial No. 542-05-06   
Camera Constant 847 H600C - Serial No. 542-24-03   
Accelerating Voltage 100 KV Beam Current 10  $\mu$ A

Analyst Leahy Date 11-15-05

Comments

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

GH																	
356																	

16 Lines

- OBSERVATIONS: Clean  Debris:  Gypsum:  Condition of the Grid:
- Very Light  Very Light  Good  Light  Light  Scrapy  Moderate  Moderate  Undissolved Fiber  Heavy  Heavy  Folded  Very Heavy  Very Heavy  86-361
- EMS LABORATORIES 117 West Bellevue Drive • Pasadena, CA 91105-2503 • (626) 568-4065



15-Nov-2004 12:18:23

97232-60, R, #01, RS

Presets= Off

Vert= 200 counts Disp= 1

Elapsed= 29 secs

Energy	Counts	X-Ray Lines
1.27	142.	Mg K , Mg K , Mg K
1.76	1436.	Si K , Si K
3.72	243.	Ca K , Ca K
5.88	59.	Mn K , Mn K
6.41	970.	Fe K , Fe K
7.05	124.	Fe K , Fe K

Quantex >

0.000 Range= 10.230 keV

Integral 0 = 10.110  
15847

86-302

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97232  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041061  
 RECEIVED: 11/15/04 ANALYZED: 11/15/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers		
Total Chrysotile Fibers .....	N.D.	N.D. /cc
Fiber Length: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Fiber Diameter: Range(um) .....	N.D. - N.D.	MEAN N.D. um
Aspect Ratio: Range .....	N.D. - N.D.	MEAN N.D.
Fibers <5um/ Fibers >=5um .....	N.D. / N.D.	N.D. / N.D. /cc
Total Amphibole Fibers .....	1	0.005 /cc
Fiber Length: Range(um) .....	25 - 25	MEAN 25 um
Fiber Diameter: Range(um) .....	0.3 - 0.3	MEAN 0.3 um
Aspect Ratio: Range .....	96 - 96	MEAN 96
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> .....	1	0.005 /cc
Chrysotile .....	N.D.	N.D. /cc
Amphibole .....	1	0.005 /cc
Crocidolite .....	1	0.005 /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> .....	1	0.005 /cc
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b> .....	1	0.005 /cc
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> .....	N.D.	N.D. /cc
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b> .....	15	

86-363

REMARKS: MODERATE DEBRIS

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

# TEM ANALYSIS

EMS Lab No. 07232  
 Client VA ANALYSIS  
 Sample No. SX041061

**METHOD OF ANALYSIS**  
 EPA Yarnelle Level I   
 Level II   
 Level III   
 AHERA  S1   
 ASPECT RATIO

**LENGTHS**  
 All Sizes (EPA)   
 ( $\mu\text{m}$ ) :  $\geq 0.5$    
 ( $\mu\text{m}$ ) :  $> 5.0$    
 ( $\mu\text{m}$ ) :  $> 10.0$    
 PCM Range\*  
 (40-25  $\mu\text{m}$  width, 350  $\mu\text{m}$  length)

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

**PORE SIZE**  
 0.45  $\mu\text{m}$    
 0.8  $\mu\text{m}$    
 0.1  $\mu\text{m}$    
 0.22  $\mu\text{m}$    
 Other

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

G.O. Area (mm<sup>2</sup>) 0.0  
 No. of G.O. to Analyze 7

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 2.00 mL  
 Working Volume 0.1 mL  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

Date 11-15-04  
 Prepared By JP

**ANALYSIS**

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	
236	ASD		5 480			EM8#1; Crocidolite
236	AF					
244	ASD					
241	ASD					

**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

86-304

15-Nov-2004 12:32:30

97232-61, A, #01, SA

Preset= Off

Verbs 200 counts Disp= 1

Elapsed= 36 secs

Energy Counts X-Ray Lines

1.05	99.	Na K , Na K , Na K , Zn L , Zn L , Zn L , Zn L
1.28	173.	Mg K , Mg K , Mg K
1.76	2306.	Si K , Si K
6.41	1091.	Fe K , Fe K
7.07	187.	Fe K , Fe K

Quantex>

0.000 Range= 10.230 keV

Integral 0 = 10.110  
1.4664

86-305

**EDS ANALYSIS**

EMS Lab No. 97232  
 Client VA-GIANTS  
 Sample No. 5X04H061

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 1000X H600B - Serial No. 542-05-06   
 Camera Constant 25.4 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

Analyst Rode Date 11-15-82

**ANALYSIS**

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysolite	Amphibole	Anhydrous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
832	124-1	WSP														
124-1	WSP															
470	WSP															

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

86-306

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97232  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041062  
 RECEIVED: 11/15/04 ANALYZED: 11/15/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

86-30

COMMENTS: MODERATE DEBRIS

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

# TEM ASTOS ANALYSIS

EMS Lab No. 27232  
 Client VA-EMHS  
 Sample No. SX041062

**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:  
 10-25 µm width, >50 µm length

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

**FILTER TYPE/AREA (mm²)**  
 MCE/386  
 MCE/314  
 MCE/1017  
 Other \_\_\_\_\_

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

## ANALYSIS

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

Date 11-5-04  
 Prepared By JAD

G.O. Area (mm²) 0.0  
 No. of G.O. to Analyze 003

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

Date \_\_\_\_\_  
 Analyst S.A.

**A**

Page 1 of 1

Serial No. 542-36-01  
 Serial No. 542-05-06  
 Serial No. 542-24-03

**RECEIVING**

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation	EDS Analysis					Comments			
			Width	Length	Thickness		Na	Mg	Si	Co	Fe		Id		
033	N50	N50				Chrysotile									
033	N50	N50				Amphibole									
033	N50	N50				Amorphous									
033	N50	N50				Non Asbestos									
033	N50	N50				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

86-308

# EDS ANALYSIS

EMS Lab No. 97232  
 Client VA GLASS  
 Sample No. 5X041062

RECEIVING

# ANALYSIS

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 1900x XH600B - Serial No. 542-05-06   
 Camera Constant 257 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV   
 Beam Current 10  $\mu$ A

Analyst Kade Date 11-15-00

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
<u>24-3</u>		<u>ASP</u>														
<u>23-3</u>		<u>ASP</u>														
<u>24</u>		<u>NSP</u>														

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

86-309



TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97232  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041063  
 RECEIVED: 11/15/04 ANALYZED: 11/15/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

86-310

REMARKS: LIGHT TO MODERATE DEBRIS

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

# TEM ANALYSIS

EMS Lab No. 97232  
 Client VA-Gilberts  
 Sample No. SX041063

## METHOD OF ANALYSIS

EPA Yarnate Level I   
 Level II   
 Level III   
 AHERA

## LENGTHS

All Sizes (EPA)   
 (µm) : 2-0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCM Range\*   
 (0.25 µm width, >5.0 µm length)

ASPECT RATIO 3:1

## RECEIVING

G.O. Area (mm<sup>2</sup>) 0.03  
 No. of G.O. to Analyze 3

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  0.8 µm  0.1 µm  0.22 µm  Other

DIRECT PREP   
 INDIRECT PREP   
 Volume 1.00 liters  
 Working Volume      ml  
 Weight      grams  
 Ashed Area      %

Date 11-15-07  
 Prepared By JRP

## ANALYSIS

Grid Address A900  
 Screen Magnification 1000X  
 Camera Constant 100.0X  
 Accelerating Voltage 10 kV  
 Beam Current      µA

Analyst S-A

Date 11/15/07

**A**

Page      of     

MICROSCOPE

H600A - Serial No. 542-36-01

H600B - Serial No. 542-05-06

H600C - Serial No. 542-24-03

## Comments

## EDS Analysis

## SAED Observation

## Dimension (mm)

## Structure

## Structure Number

## Grid Opening

## Id

## Fe

## Ca

## Si

## Mg

## Na

## No Pattern

## Ken Asbestos

## Ambiguous

## Amphibole

## Chrysotile

## Width

## Length

## Thickness

1053-AS1  
1053-AS2  
1053-AS3  
1053-AS4

16 Lines

## OBSERVATIONS:

Clean   
 Debris:    
 Gypsum:    
 Condition of the Grid:  Very Light  Very-Light  Good

Light  Moderate   
 Light  Moderate   
 Scrappy  Undissolved Filter

Heavy  Very Heavy   
 Heavy  Very Heavy   
 Folded

P6-311

RECEIVING

LEVI ANDERSON'S ANALYSIS

EMS Lab No. 972-32

Client VANETTS

Sample No. 5X041063

MICROSCOPE

ANALYSIS

Grid Address: B110 H600A - Serial No. 542-36-01

Screen Magnification: 21.7 XH600B - Serial No. 542-05-06

Current Constant: 10 H600C - Serial No. 542-24-03

Accelerating Voltage: 10 kV 100 kV

Beam Current: 10  $\mu$ A

Analyt: Leads Date: 11-8-83

Comments

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

16 Lines

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

Very Light   
Light   
Light   
Scrappy   
Good

Moderate   
Moderate   
Undissolved Filter

Heavy   
Heavy   
Folded

Very Heavy   
Very Heavy

86-312



TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97232  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041064  
 RECEIVED: 11/15/04 ANALYZED: 11/15/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

86-313

COMMENTS: MODERATE TO HEAVY DEBRIS

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

# TEM ASBESTOS ANALYSIS

EMS Lab No. 97232  
 Client VA-CIVILS  
 Sample No. EX041064

**METHOD OF ANALYSIS**  
 EPA Yarnale Level I   
 Level II   
 Level III   
 AHERA  51  
 ASPECT RATIO 3:1  5:1

G.O. Area (mm<sup>2</sup>) D93  
 No. of G.O. to Analyze 093

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

**FILTER TYPE/AREA (mm<sup>2</sup>)**  
 MCE/395  MCE/514  MCE/1017  Other

**PORE SIZE**  
 0.45   $\mu$ m   
 0.8   $\mu$ m   
 0.1   $\mu$ m   
 0.22   $\mu$ m   
 Other

**LENGTHS**  
 All Sizes (EPA)   
 ( $\mu$ m) :  $\geq$  0.5   
 ( $\mu$ m) :  $>$  5.0   
 ( $\mu$ m) :  $>$  10.0   
 PCM Range\*  
 1-0.25  $\mu$ m width,  $\geq$ 5.0  $\mu$ m length

## ANALYSIS

**DIRECT PREP**  **INDIRECT PREP**   
 Volume 200  $\mu$ l   
 Working Volume 200  $\mu$ l   
 Weight \_\_\_\_\_ grams   
 Ashed Area \_\_\_\_\_ %

Date 11-15-04  
 Prepared By JLP

Grid Address A 21151a  
 Screen Magnification \_\_\_\_\_  
 Camera Constant \_\_\_\_\_  
 Accelerating Voltage 100 KV   
 Beam Current 10  $\mu$ A

Analyst SA

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysotile	Amphibole	Amfibugues	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
<p>CULT. ALSO            COPY ALSO            LOG ALSO</p>																

**15 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

JL6 -314

86-315

**EDS ANALYSIS**

EMS Lab No. 97232

Client VA-EMATS

Sample No. 5X041064

**RECEIVING**

ANALYSIS

Grid Address: B H600A - Serial No. 542-36-01   
 Screen Magnification: 100X XH600B - Serial No. 542-05-06   
 Camera Constant: 69.7 H600C - Serial No. 542-24-03   
 Accelerating Voltage: 10 100 KV   
 Beam Current: 10 IIA

Analyst: Ladlie Date: 1/15/80

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				
30	1320	W/W																			
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

FE-316

# AIR SAMPLING DATA

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

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

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

**Date:** 11-15-04  
**Project:** Demolition For Asbestos and Mastic removal from North Hall .  
**Contractor:** Unlimited Environmental , Inc  
**Location:** Bldg. 304 , 1st Floor North Hall

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 1066	SAMPLE	SAMPLE	SAMPLE	SAMPLE	
a. SAMPLE TYPE/MEDIA	IWA North Hall Closet / TEM					
b. SAMPLE SUBMISSION NO.	SX041066					
c. TIME ON	0930					
TIME OFF	1130					
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	
					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

a. ANALYTICAL LABORATORY NAME EMS Laboratories	AIHA ACCREDITATION NUMBER NVLAP # 101218
9b. ADDRESS 117 West Bellevue Dr. Pasadena , CA91105	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 11-15-04	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI-BRATION DATE 11-15-04	10d. FLOW RATE CALCULATIONS 10 liter / min
11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly , SST 97-2293		DATE 11-15-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-37



Date: 11-15-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates : 11-15-04

Location : Bldg. . 304 , 1st Floor North Hall

Abatement Company: Unlimited Environmental Phone Number: ██████████

Abatement Supervisor:

Type of ACM : FT Mastic

Quantity of ACM : sq-ft

Abatement Type & Method(s):

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: \_\_\_\_\_

86-318

I. Administrative Controls:

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

II. Air Monitoring:

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

D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes \_\_\_\_\_ No X \_\_\_\_\_ Worker's Name/SS #:
- 2. Pre-Tests:
- 3. Perimeter:
- 4. Inside Work Area:
- 5. Clearance: SX0401066

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

IV. Engineering Controls:

- A. Glove bags: 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
- 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: Forster
- L. Work Area Ready for Clearance Air Testing Yes  No

86-319

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg.304, Floor 1<sup>st</sup>, North 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 11/22/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: <u>North 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 Kelly, SST97-2293

DATE: November 23, 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-C40433  
B304, 1st Flr. Demo  
REPORT NO: 97284  
DATE COLLECTED: 11/15/04 by K. Kelly  
DATE RECEIVED: 11/18/04 at 0930  
DATE ANALYZED: 11/18/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX041066

86-320

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.

86-321

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 97284      Date Received 11/18/04      Verbal Results \_\_\_\_\_  
 Client V.A.G.L.A.R.S.      Date Analyzed 11/18/04      Fax Results \_\_\_\_\_  
 Location \_\_\_\_\_

ASPECT RATIO		STRUCTURE SIZE	
DIRECT PREP <input checked="" type="checkbox"/>	3:1 <input type="checkbox"/>	All Sizes (EPA) <input type="checkbox"/>	$\geq 5 \mu\text{m}$ Length <input type="checkbox"/>
INDIRECT PREP <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"/>
		$\geq 5 \mu\text{m}$ 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 041066	1200	-	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 \_\_\_\_\_ **86322**

# SUBMITTAL FORM/Laboratory Services

97284

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

RELINQUISHED BY KELLY  
 TIME / DATE 11-15-04  
 DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S). R304, 1<sup>st</sup> PL DEMO  
 PACKAGE SHIPPED FROM \_\_\_\_\_  
 CLIENT FAX NO. \_\_\_\_\_

RESULTS REQUESTED VIA VERBAL  FAX   
 (NOTE: Complete written reports will follow all analyses, in addition to any prior transmitted verbal or fax results.)  
 DATE/TIME OF SAMPLE COLLECTION 11-15-04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 1 SAMPLER'S NAME [Signature] SIGNATURE [Signature] PRINTED KELLY  
 TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_

(FOR EMS ONLY)  
 EMS Sample No.

VOLUME  
 TIME WEIGHT  
 PIPETTE

CLIENT SAMPLE NO.	DESCRIPTION LOCATION	ANALYSIS	VOLUME
<u>SK041066</u>	<u>CLEAN AREA / 1WA NORTHWEST</u>	<u>TEH</u>	<u>1200L</u>
			<u>86-313</u>

Laboratory No. 97284 Received By [Signature] Time 9:30  
 Date of Package Delivery 11-18-04 Shipping Bill Retained: YES  NONE   
 Condition of Package on Receipt a 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 11-18-04 Misc. Info. \_\_\_\_\_  
 Disposition of Samples EMS USE

FOR EM VLY (SF 5/00)

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97284  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041066  
 RECEIVED: 11/18/04 ANALYZED: 11/18/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

ACE-18

COMMENTS: LIGHT TO MODERATE DEBRIS

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

# TEM ANALYSIS

EMS Lab No. 27284  
 Client VALSARTIS  
 Sample No. 5041066

**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

## RECEIVING

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

**FILTER TYPE/AREA (mm)**  
 MCE/3085   
 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 2.00 ml  
 Working Volume 0.1 ml  
 Weight 0.1 grams  
 Ashed Area 1.0 %

G.O. Area (mm) 0.0  
 No. of G.O. to Analyze 003

Date 11-18-04  
 Prepared By JR

## ANALYSIS

Grid Address 2996X  
 Screen Magnification 2996X  
 Camera Constant 100.0 KV  
 Accelerating Voltage 10 µA  
 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 efk/vk Date

Grid Opening	Structure Number	Structure	Dimension (mm)		Thickness	SAED Observation				EDS Analysis				Comments					
			Width	Length		Chrysothile	Anthrillite	Ambyrous	Non Asbestos	Ro Pattern	Na	Mg	Si		Ca	Fe	Id		
<u>G3</u>	<u>21</u>	<u>21</u>																	
<u>G2</u>	<u>23</u>	<u>23</u>																	
<u>G1</u>	<u>24</u>	<u>24</u>																	
<u>G12</u>	<u>25</u>	<u>25</u>																	
<u>G12</u>	<u>26</u>	<u>26</u>																	

16 Lines

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

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

86-325



# TEM ANBESTOS ANALYSIS

EMS Lab No. 22204  
 Client VA-GIATTS  
 Sample No. SX04HOC

MICROSCOPE

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification 1000 xH600B - Serial No. 542-05-06   
 Camera Constant 277 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10 nA

## ANALYSIS

Analyst U. Brown Date 1/18/01

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>C031</u>	<u>100</u>	<u>100</u>																	
<u>C031</u>	<u>100</u>	<u>100</u>																	
<u>C031</u>	<u>100</u>	<u>100</u>																	

16 Lines

OBSERVATIONS: Clean   
 Debris   
 Gypsum   
 Condition of the Grid:

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

86-326

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>	2. STATION NO. 619	3. REGION NO. 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:** 11-18-04  
**Project:** Floor Tile & Mastic Removal from Hallway.  
**Contractor:** Unlimited Environmental, Inc  
**Location:** Bldg. 115, 1st Floor Hallway

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	SAMPLE
a. SAMPLE TYPE/MEDIA	Pre-Work	During Work	Clearance		
b. SAMPLE SUBMISSION NO.	SX041070	SX041071	SX041072		
c. TIME ON	09:20	09:30	09:40		
d. TIME OFF	12:00	11:30	11:40		
TOTAL TIME (in minutes)	160	120	120		
e. FLOW RATE <input checked="" type="checkbox"/> /min <input type="checkbox"/> /min	10	8	12		
g. VOLUME (in liters)	1600	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	F/CC	S/mm <sup>2</sup>		
Asbestos (PCM)	0.0077	0.0047			
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 NVLAP # 101218
--	---

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

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 11-18-04	10b. FLOW RATE CALCULATIONS 8 - 12 liter / min	10c. (POST) CALI-BRATION DATE 11-18-04	10d. FLOW RATE CALCULATIONS 8 - 12 liter / min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>Grady Smith</b>	DATE 11-18-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-327

Date: 11-18-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Grady Smith

Abatement Dates : 11-18-04

Location : Bldg. 115 , 1st Floor Hallway

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor: Greg Diaz

Type of ACM : Floor Tile & Mastic

Quantity of ACM : 90 sq-ft

Abatement Type & Method(s): Wet & Scrape up 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  Date: \_\_\_\_\_ CAL/OSHA Yes  No  Date: \_\_\_\_\_

86 1328

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: SX041070
- 3. Perimeter: SX041071

- 4. Inside Work Area:
- 5. Clearance: SX041072
- 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  No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes  No

IV. Engineering Controls:

- A. Glove bags: Yes  No  Properly Taped to Pipes: Yes  No
- B. Containment: Yes  No  Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes  No  No. Chambers: 1 Shower: Yes  No
- D. If Containment in Use, are Critical Openings Properly Sealed: 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: Forster
- L. Work Area Ready for Clearance Air Testing: Yes  No

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V. Results of Final Inspections & Air Sampling:

- A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 115, Floor 1<sup>st</sup> Hallway 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 11/18/04 are as follows:
 

Bldg. <u>115</u>	Floor: <u>1st</u>	Room: <u>Hallway</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>3</sup> and PCM Clearance Standard: 0.01 fibers/cc

Industrial Hygienist: Grady Smith

# 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:** 97376.1      **Date Received:** 11-23-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 11-29-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 11-18-04      **Project #:** BLDG 115 1ST FLR      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 97376.1VAGLAHS.NIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX041070	100	25	32	12261	1600.0	0.0077	0.0017	0.0193	0.0003
SX041071	100	11.5	1.5	5640	1200.0	0.0047	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*

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**

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SUBMITTAL FORM/Laboratory Services

97376

PAGE 1 0-1

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

RELINQUISHED BY Gandy Smith  
TIME / DATE 11.18.04

CLIENT VA-GLASS (130b)

DATE OF SHIPMENT CARRIER

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

CLIENT P.O. NO.  
CLIENT JOB/PROJECT ID NO(S)

TELEPHONE

Bldg. 115 1st Floor Hallway

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 11.18.04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 3 (2+1)

SAMPLER'S NAME Gandy Smith

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	COLLECTOR	TIME OF DAY
97376.1-71	SX041071	Durley	Bldg. 115	PCM		1200
70	SX041070	PCB-WORK	}	PCM		1600
97376-72	SX041072	Clearance		TEAM		1200
<del>Empty rows</del>						

Laboratory No. 97376

Received By [Signature] Time 10:00

Date of Package Delivery 11-23-04

Shipping Bill Returned 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 11-23-04

Misc. Info.

Disposition of Samples [Signature]

(SF 5/00)

FOR E NLY

86-331

DATE: December 1, 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-C40433  
B115 1st Flr. Hallway  
REPORT NO: 97376  
DATE COLLECTED: 11/18/04 by Grady Smith  
DATE RECEIVED: 11/23/04 at 1000  
DATE ANALYZED: 11/26/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AJR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

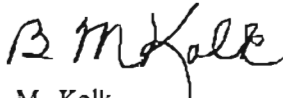
The sample was identified as: SX041072 Bldg. 115 Clearance

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.

PL-332

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# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 97376  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 11/23/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 11/26/04 ▶ 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	Analytical Sensitivity	95% CONFIDENCE LEVELS Lower Limit	Upper Limit
-----------------------	-----------	---	----------------------------	--------------	------------------------	--------------------------------------	-------------

SX 041072      1200      -      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.

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TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97376  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041072  
 RECEIVED: 11/23/04 ANALYZED: 11/26/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0851  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

86-335

COMMENTS: MODERATE DEBRIS

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

# TEM ANALYSIS

EMS Lab No. 97376  
 Client VA GLASS  
 Sample No. SX04072

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\*   
 10-25 µm width, >5.0 µm length

TYPE OF SAMPLE  
 Air  Soil  Bulk  Water  Wipe  Other  Dust/Microvec

SAED Observation  
 Chlorite  Amphibole  Amfibious  Non Asbestos  No Pattern

G.O. Area (mm<sup>2</sup>) 0.0  
 No. of G.O. to Analyze 7

PREP  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 200 µliters  
 Working Volume 28.9 ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

ANALYSIS  
 Date 11-24-04  
 Prepared By JAP

Grid Address A  
 Screen Magnification 19700x  
 Camera Constant 28.9  
 Accelerating Voltage 10 100 KV  
 Beam Current \_\_\_\_\_ µA

**A**

Analyst V. Kom Date 11-26-04

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

16 Lines

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

86-336

# TEM ASPBESTOS ANALYSIS

EMS Lab No. 07376  
 Client VA-EMALS  
 Sample No. SX041022

MICROSCOPE

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 1500x H600B - Serial No. 542-05-06   
 Camera Constant dx H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

## ANALYSIS

Analyst Kedle Date 11-30-00

## RECEIVING

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments		
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id
<u>133</u>	<u>133</u>	<u>W1</u>															
<u>134</u>	<u>134</u>	<u>W1</u>															
<u>135</u>	<u>135</u>	<u>W1</u>															
<u>136</u>	<u>136</u>	<u>W1</u>															
<u>137</u>	<u>137</u>	<u>W1</u>															
<u>138</u>	<u>138</u>	<u>W1</u>															
<u>139</u>	<u>139</u>	<u>W1</u>															
<u>140</u>	<u>140</u>	<u>W1</u>															
<u>141</u>	<u>141</u>	<u>W1</u>															
<u>142</u>	<u>142</u>	<u>W1</u>															
<u>143</u>	<u>143</u>	<u>W1</u>															
<u>144</u>	<u>144</u>	<u>W1</u>															
<u>145</u>	<u>145</u>	<u>W1</u>															
<u>146</u>	<u>146</u>	<u>W1</u>															
<u>147</u>	<u>147</u>	<u>W1</u>															
<u>148</u>	<u>148</u>	<u>W1</u>															
<u>149</u>	<u>149</u>	<u>W1</u>															
<u>150</u>	<u>150</u>	<u>W1</u>															

16 Lines

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

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scrappy

Moderate   
 Moderate   
 Undischarged Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy

86-337

# 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:** 11-19-04  
**Project:** Floor Tile Removal from Hallway.  
**Contractor:** Unlimited Environmental, Inc  
**Location:** Bldg. 115, 1st Floor Hallway

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	Pre-Work	During Work	Clearance		
b. SAMPLE SUBMISSION NO.	SX041073	SX041074	SX041075		
c. TIME ON	07:45	10:05	12:30		
d. TIME OFF	09:45	12:30	14:30		
e. TOTAL TIME (in minutes)	120	145	120		
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> cu/m/min	10	10	10		
g. VOLUME (in liters)	1200	1450	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	F/CC	S/mm <sup>3</sup>		
Asbestos (PCM)	0.0114	0.0085			
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>
9b. ADDRESS <b>117 West Bellevue Dr. Pasadena, CA91105</b>	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE <b>11-19-04</b>	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI-BRATION DATE <b>11-19-04</b>	10d. FLOW RATE CALCULATIONS 10 liter / min
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) <b>Grady Smith</b>	DATE <b>11-19-04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	-------------------------	---

86-338

86-339

Date: 11-19-04  
 From: VA-GLAHS  
 Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Grady Smith

Abatement Dates : 11-19-04

Location : Bldg. 115 , 1st Floor Hallway

Abatement Company: Unlimited Environmental Phone Number: \_\_\_\_\_

Abatement Supervisor: Greg Diaz

Type of ACM : Floor Tile  
 Quantity of ACM : 90 sq-ft

Abatement Type & Method(s): Wet & Scrape up 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: \_\_\_\_\_

*86-340*

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: SX041073

3. Perimeter: SX041074

- 4. Inside Work Area:
- 5. Clearance: SX041075
- 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  No
- C. Respirator Suitable for Anticipated Fiber Levels: Yes  No

IV. Engineering Controls:

- A. Glove bags: Yes  No  Properly Taped to Pipes: Yes  No
- B. Containment: Yes  No  Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes  No  No. Chambers: 1 Shower: Yes  No
- D. If Containment in Use, are Critical Openings Properly Sealed: 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: Forster
- L. Work Area Ready for Clearance Air Testing Yes  No

86-341

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 115, Floor 1<sup>st</sup>, Hallway 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 11/19/04 are as follows:

Bldg. <u>115</u>	Floor: <u>1st</u>	Room: <u>Hallway</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: Grady Smith



# 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: 97375.1      Date Received: 11-23-04      Filter Type: MCE      Filter Area: 385  
 Client: VAGLAHS      Date Analysed: 11-29-04      Mag: 400x      Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD      Date Sampled: 11-19-04      Project #: BLDC.115.1ST.FLR      Filter Size: 25MM  
LOS ANGELES, CA 90073      Attention: B SPIVEY      File Name: 97375.1VAGLABS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX041073	100	28	36	13732	1200.0	0.0114	0.0022	0.0257	0.0004
SX041074	100	25	32	12261	1450.0	0.0085	0.0019	0.0212	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      *Carl Bergman*  
 I.D. 2033      JEFF WAN  
 I.D. 3276      S.AHMAD      *B.M. Kolk*  
 B.M. Kolk, Laboratory Director

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

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

*86-342*

DATE: November 29, 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-C40433  
B115, 1st Flr. Hallway  
REPORT NO: 97375  
DATE COLLECTED: 11/19/04 by Grady Smith  
DATE RECEIVED: 11/23/04 at 1000  
DATE ANALYZED: 11/26/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX041075

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.

86-343

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 97375  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 11/23/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 11/26/04 ▶ 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 041075	1200	-	110	0.03	0.005	0.01 0.07

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 \_\_\_\_\_

SUBMITTAL FORM/Laboratory Services

97375

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

CLIENT VA GLASS (130b) DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
ADDRESS 11301 WILSHIRE BLVD., BLDG 218 CLIENT P.O. NO. \_\_\_\_\_  
LOS ANGELES, CA 90025 RM 308 CLIENT JOB/PROJECT ID NO(S). \_\_\_\_\_  
TELEPHONE \_\_\_\_\_ Bldg. 115 1st Floor Hallway  
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 11/19/04  
SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
NO. OF SAMPLES SENT 2 + 1 SAMPLER'S NAME Grady Smith Grady Smith  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
SIGNATURE PRINTED

(FOR EMS ONLY)

VOLUME  
TIME WEIGHT  
RE ANALYZE

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS	VOLUME	TIME WEIGHT	RE ANALYZE
<u>97375.1-3</u>	<u>SX041073</u>	<u>Bldg. 115 Pre-wash</u>	<u>PCM</u>	<u>1200</u>	<u>96-345</u>
<u>4</u>	<u>SX041074</u>	<u>Bldg. 115 During</u>	<u>PCM</u>	<u>1450</u>	
<u>97375-5</u>	<u>SX041075</u>	<u>Bldg. 115 Clearance</u>	<u>TSM</u>	<u>1200</u>	
<u>[Large handwritten scribble]</u>					

FOR EMV (SF 5/00)

Laboratory No. 97375 Received By [Signature] Time 10:00  
Date of Package Delivery 11-23-04 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 11-23-04 Misc. Info. \_\_\_\_\_  
Disposition of Samples EOB WTR

TEM ASBESTOS AIR REPORT

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

EMS NO: 97375

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

VOLUME OF AIR: 1200 L

METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041075

RECEIVED: 11/23/04

ANALYZED: 11/26/04

AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651

GRID OPENING AREA (mm<sup>2</sup>): 0.0093

SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM		CALCULATED VALUE	
Total Number of Fibers				
Total Chrysotile Fibers	1		0.005 /cc	
Fiber Length: Range(um)	2.9 -	2.9	MEAN	2.9 um
Fiber Diameter: Range(um)	0.3 -	0.3	MEAN	0.3 um
Aspect Ratio: Range	11 -	11	MEAN	11
Fibers <5um/ Fibers >=5um	1 /	N.D.	0.005 /	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	6		0.03 /cc	
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b>	7		0.03 /cc	
Chrysotile	7		0.03 /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>	1		0.005 /cc	
<b>TOTAL NUMBER OF ASBESTOS STRUCTURES</b>	7		0.03 /cc	
Sensitivity Level(Structures/cc)			0.005	
Lower 95% Confidence Limit(Structures/cc)			0.01	
Upper 95% Confidence Limit(Structures/cc)			0.07	
<b>TOTAL NUMBER OF UNIDENTIFIED STRUCTURES</b>	N.D.		N.D. /cc	
<b>ASBESTOS STRUCTURES/mm<sup>2</sup></b>	110			

86-346

REMARKS: MODERATE DEBRIS

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

# TEM ASBESTOS ANALYSIS

EMS Lab No. 07375  
 Client VA SLATS  
 Sample No. SX041075

**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\*  
 (0.25 µm width, 35.0 µm length)

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

**PREP**  
 DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 µl  
 Working Volume 28.4 ml  
 Weight 100.00 µg  
 Ashed Area 10 %

**ANALYSIS**  
 Grid Address A  
 Screen Magnification 19720 X  
 Camera Constant 28.4  
 Accelerating Voltage 100.00 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 11-29-04  
 Analyst V. Van

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

**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

86-347

# RESULT ● F AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMMS Laboratory No. 97445  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_

Date Received 11/30/04 Verbal Results \_\_\_\_\_  
 Date Analyzed 11/30/04 Fax Results \_\_\_\_\_

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

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 041086	1200	-	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 \_\_\_\_\_

Rc-380

86-381

\_\_\_\_\_



TEM ASBESTOS AIR REPORT

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

EMS NO: 97445

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

VOLUME OF AIR: 1200 L

METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041086

RECEIVED: 11/30/04

ANALYZED: 11/30/04

AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651

GRID OPENING AREA (mm<sup>2</sup>): 19.300X

SCREEN MAGNIFICATION: 0.0093

ASBESTOS STRUCTURE DESCRIPTION      COUNTED IN TEM      CALCULATED VALUE

Total Number of Fibers ..... N.D. /cc

Total Chrysotile Fibers ..... N.D. /cc

Fiber Length: Range(um) ..... N.D. - N.D. /cc

Fiber Diameter: Range(um) ..... N.D. - N.D. /cc

Aspect Ratio: Range ..... N.D. - N.D. /cc

Fibers <5um/ Fibers >=5um ..... N.D. / N.D. /cc

Total Number of Asbestos Bundles ..... N.D. /cc

Total Number of Asbestos Cluster Clumps ..... N.D. /cc

Total Number of Asbestos Matrix/Debris ..... N.D. /cc

TOTAL NUMBER OF ASBESTOS STRUCTURES ..... N.D. /cc

Chrysotile ..... N.D. /cc

Amphibole ..... N.D. /cc

Crocidolite ..... N.D. /cc

Tremolite ..... N.D. /cc

Amosite ..... N.D. /cc

Anthophyllite ..... N.D. /cc

Actinolite ..... N.D. /cc

TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES ..... N.D. /cc

TOTAL NUMBER OF ASBESTOS STRUCTURES ..... N.D. /cc

Sensitivity Level(Structures/cc) ..... 0.005

Lower 95% Confidence Limit(Structures/cc) ..... 0

Upper 95% Confidence Limit(Structures/cc) ..... 0.02

TOTAL NUMBER OF UNIDENTIFIED STRUCTURES

ASBESTOS STRUCTURES/mm<sup>2</sup> ..... N.D.

COMMENTS: LIGHT TO MODERATE DEBRIS

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

86-382

# TEM ASBESTOS ANALYSIS

EMIS Lab No. 07445

Client V-A-STARTS

Sample No. SX041030

FLITER TYPE/AREA (mm)

MCE285  
 MCE314  
 MCE7017  
 Other \_\_\_\_\_

## RECEIVING

METHOD OF ANALYSIS

EPA Verbrate Level I  
 Level II  
 Level III  
 AHERA

All Sizes (EPA)  
 (µm) : > 0.5  
 (µm) : > 5.0  
 (µm) : > 10.0  
 PCM Range\*

G.O. Area (mm<sup>2</sup>) 0.0  
 No. of G.O. to Analyze 7

## PREP

DIRECT PREP  
 INDIRECT PREP

Volume 1200 liters  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

Date 11-30-04  
 Prepared By JAF

## ANALYSIS

Grid Address \_\_\_\_\_  
 Screen Magnification \_\_\_\_\_  
 Camera Constant \_\_\_\_\_  
 Accelerating Voltage \_\_\_\_\_ kV  
 Beam Current \_\_\_\_\_ µA

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

Analyst S-A Date 11/30/04

Comments

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis						
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe	Id
<u>C43</u>	<u>NSD</u>	<u>NSD</u>														
<u>C44</u>	<u>NSD</u>	<u>NSD</u>														
<u>C33</u>	<u>NSD</u>	<u>NSD</u>														
<u>P43</u>	<u>NSD</u>	<u>NSD</u>														

16 Lines

OBSERVATIONS:

Clean  
 Debris  
 Gypsum  
 Condition of the Grid:

Very Light  
 Light  
 Scrapy

Moderate  
 Moderate  
 Undissolved Filter  
 Heavy  
 Heavy  
 Folded

86-383

# TEM ASPESTOS ANALYSIS

EMS Lab No. 27445  
 Client VA-GSTATS  
 Sample No. SK041086

Page    of     
 MICROSCOPE

Grid Address B7 H600A - Serial No. 542-36-01   
 Screen Magnification 29100 H600B - Serial No. 542-05-06   
 Camera Constant 9A H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10 uA

## ANALYSIS

Analyst WJL Date 11-30-04

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>3541570</u>	<u>3541570</u>	<u>3541570</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

86-384

SUBMITTAL FORM/Laboratory Services

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

CLIENT: VA-GLAHS (130P)

ADDRESS 1101 WILSHIRE BLVD., BLDG 218  
LOS ANGELES, CA 90025 RM 308

TELEPHONE:  BEN SPIVY

CONTACT:  VERBAL  FAX

RESULTS REQUESTED VIA:  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: 11.23.04

SAMPLE PRESERVATIVES: N/A

NO. OF SAMPLES SENT: 1

SAMPLER'S NAME: [Signature]

HOLDING TIMES: N/A

PRINTED SIGNATURE: [Signature]

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SOBBENT TUBE  IMPINGER  OTHER

EMS Sample No. (FOR EMS ONLY)

97445-86

CLIENT SAMPLE NO.

SK041086

DESCRIPTION LOCATION ANALYSIS

cleansing / WA

Ten

1200L

VOLUME

TIME WEIGHT

86-385

Laboratory No. 97445

Date of Package Delivery

11-30-04

Condition of Package on Receipt

OK

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

Condition of Custody Seal

Shipping Bill Returned: YES  NONE

Received By

[Signature]

Chain-of-Custody Signature

[Signature]

Date of Acceptance into Sample Bank

11-30-04

Misc. Info

AS UTM

Disposition of Samples

(SF 5/00)

FOR ENVILY

EMVS LABORATORIES 117 West Bellevue Drive / Pasadena CA 91105-2503 / 626-568-0065

97445

**AIR SAMPLING DATA**

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

4. EMPLOYEE INFORMATION  
 a. NAME OF EMPLOYEE  
 b. SSN N/A  
 c. JOB TITLE

d. ADDRESS (Street, City, State & ZIP Code)  
 e. PERSONAL PROTECTIVE EQUIPMENT  
 f. MANUFACTURER  
 g. APPROVAL No. (for Respiration)

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

Date: 11-24-04  
 Project: TSI - ACM Removal from Pipe Insulation & Elbow  
 Contractor:  
 Location: Bldg. 256, Room : 6A

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 1095  
 SAMPLE  
 SAMPLE  
 SAMPLE

a. SAMPLE TYPE/MEDIA  
 Clearance / TBM

b. SAMPLE SUBMISSION NO.  
 SX041095

c. TIME ON  
 10:50

d. TIME OFF  
 12:50

e. TOTAL TIME (in minutes)  
 120

f. FLOW RATE (l/min) (m<sup>3</sup>/min)  
 10

g. VOLUME (in liters)  
 1200

6. RESULTS (For Laboratory Use)  
 a. PERCENTAGE  
 b. TYPE

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Ceiling T = Time Weighted Average	Unit	S/mm <sup>2</sup>	N.D.
Asbestos (TEM)			

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

8. IN COMMENTS TO LABORATORY  
 TEM

a. ANALYTICAL LABORATORY NAME  
 EMS Laboratories

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

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALIBRATION DATE  
 11-24-04

10b. FLOW RATE CALCULATIONS  
 10 liter / min

10c. (POST) CALIBRATION DATE  
 11-24-04

10d. FLOW RATE CALCULATIONS  
 10 liter / min

11. NAME & JOB TITLE (Person Performing Sampling)  
 Kevin Kelly; SST 97-2293  
 DATE 11-24-04  
 USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

66-386

86-387

---

Date: 11-24-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSSST/CAC: Kevin Kelly

Abatement Dates : 11-24-04

Location : Bldg. 256, Room 6A

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM : TSI Pipe Insulation & Elbow

Quantity of ACM : L Ft.

Abatement Type & Method(s): Glove bag, Wet & Peel

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Worker Annual Medical Current: Yes  No

Notification to: SCAQMD Yes  No  CAL/OSHA Yes  No  Date: \_\_\_\_\_

I. Administrative Controls:

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

B. Employees in Building Notified of Abatement: Yes  No

C. Competent Person Outside of Work Area: Yes  No

D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

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

B. Contractor Calibrated Pumps: Yes  No

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

D. VAMC - IH Monitoring: \_\_\_\_\_

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

- 2. Pre-Tests: \_\_\_\_\_
- 3. Perimeter: \_\_\_\_\_
- 4. Inside Work Area: \_\_\_\_\_

PL-388

AHERA TEM Clearance Standard: <70 Structures/mm<sup>2</sup> and PCM Clearance Standard: 0.01 fibers/cc  
 Bldg. 256 Floor: Gr Room: 6A Structures/mm<sup>2</sup> N.D.  
 Floor: Room: fibers/cc  
 Floor: Room: fibers/cc  
 Floor: Room: Structures/mm<sup>2</sup>

B. Final Air Sampling Results: The results of the clearance air samples taken on 11/24/04 are as follows:  
 A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 256, Floor Gr, Room 6A, indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

V. Results of Final Inspections & Air Sampling:

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

IV. Engineering Controls:

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

III. Contractor's PPE:

- 6. VAIH Laboratory: EMS Laboratories, Pasadena
- 5. Clearance: SX041089

86-389



DATE: December 1, 2004

CLIENT: VA Hospital/West Los Angeles IH (130B)

Bldg. 218, Room 308  
11301 Wilshire Blvd.  
Los Angeles, CA 90073

ATTENTION: Ben Spivey

P.O. NO. 691-C40433  
B256, RGA

REPORT NO: 97444

DATE COLLECTED: 11/24/04 by K. Kelly

DATE RECEIVED: 11/30/04 at 1000

DATE ANALYZED: 11/30/04

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

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX041089

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*

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. 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.

86-390

EMS LABORATORIES, INC.

# RESULT FAIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 97444  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_  
 Date Received 11/30/04  
 Date Analyzed 11/30/04  
 Verbal Results \_\_\_\_\_  
 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"/> ≥0.5 μm Length <input checked="" type="checkbox"/> ≥5 μm Length <input type="checkbox"/>	≥5 μm Length <input type="checkbox"/> * (≥0.25 μm Width, ≥5.0 μm Length) <input type="checkbox"/>
---	---	---	--

Sample Identification	Volume(L)	Mass/m <sup>3</sup> (mg/m <sup>3</sup> )	Structures/mm <sup>3</sup>	Structure/cc	Analytical Sensitivity	95% CONFIDENCE LEVELS
			Lower Limit	Upper Limit		
SX 041089	1200	-	N.D.	N.D.	0.005	0 0.02

PL-391

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

Comments \_\_\_\_\_

FOR ERM ILY

(SF 5/00)

SUBMITTAL FORM/Laboratory Services

PAGE 1 OF 1

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

CLIENT: VA-GIAMS (130B) ADDRESS: 11301 WILSHIRE BLVD., BLDG 218 LOS ANGELES, CA 90025

TELEPHONE: [REDACTED] CONTACT: BEN SPIVY

RESULTS REQUESTED VIA:  VERBAL  FAX  CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION: 11.24.04

SAMPLE PRESERVATIVES: [REDACTED]

NO. OF SAMPLES SENT: [REDACTED]

SAMPLER'S NAME: [REDACTED] SIGNATURE: [REDACTED]

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SOBENT TUBE  IMPINGER  OTHER

EMMS Sample No. 97444-89

CLIENT SAMPLE NO. SK041089

DESCRIPTION LOCATION ANALYSIS: Clearwater / IWA

VOLUME: 1200L

TIME WEIGHT: [REDACTED]

EMSA EMAG I LABORATORIES 117 West Ballena Drive / Pasadena CA 01105.7502 / 626 568.1065

LABORATORY NO. 97444

DATE OF PACKAGE DELIVERY: 11-30-04

RECEIVED BY: [REDACTED]

SHIPPING BILL REMITTED: YES  NONE

CONDITION OF PACKAGE ON RECEIPT: [REDACTED]

NO. OF SAMPLES: 1

DATE OF ACCEPTANCE INTO SAMPLE BANK: 11-30-04

DISPOSITION OF SAMPLES: [REDACTED]

86-393

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S. EMS NO: 97444  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385 VOLUME OF AIR: 1200 L METHOD OF ANALYSIS: AHERA  
 SAMPLE DESCRIPTION: SX 041089 RECEIVED: 11/30/04 ANALYZED: 11/30/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION      COUNTED IN TEM      CALCULATED VALUE

Total Number of Fibers

Total Chrysotile Fibers

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.      /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

Total Number of Asbestos Cluster Clumps

Total Number of Asbestos Matrix/Debris

TOTAL NUMBER OF ASBESTOS STRUCTURES

Chrysotile      N.D.      /cc

Amphibole      N.D.      /cc

Crocidolite      N.D.      /cc

Tremolite      N.D.      /cc

Amosite      N.D.      /cc

Anthophyllite      N.D.      /cc

Actinolite      N.D.      /cc

TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES

TOTAL NUMBER OF ASBESTOS STRUCTURES

Sensitivity Level(Structures/cc)      N.D.      /cc

Lower 95% Confidence Limit(Structures/cc)      0

Upper 95% Confidence Limit(Structures/cc)      0.02

TOTAL NUMBER OF UNIDENTIFIED STRUCTURES

ASBESTOS STRUCTURES/mm<sup>2</sup>      N.D.      /cc

COMMENTS:      MODERATE DEBRIS

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

86-394

**TEM ASTOS ANALYSIS**

EMS Lab No. 02447

Client VK-STATS

Sample No. EX041089

**RECEIVING**

**METHOD OF ANALYSIS**  
 EPA Variable Level I   
 Level II   
 Level III   
 AHERA   
 PGM Flange   
 Aspect Ratio 3:1  5:1

**LENGTHS**  
 All Sizes (EPA)   
 (µm) : < 2.0   
 (µm) : > 5.0   
 (µm) : > 10.0   
 10-25 µm width, 50 µm length   
 Dust/Microvac

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

**G.O. Area (mm²)** 0.0  
 No. of G.O. to Analyze 2

**PREP**

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

Date 11-30-04  
 Prepared By JCP

**ANALYSIS**

Grid Address A  
 Screen Magnification 800X  
 Camera Constant \_\_\_\_\_ µA  
 Accelerating Voltage \_\_\_\_\_ kV  
 Beam Current \_\_\_\_\_ µA

Analyst S-A Date 11/20/04

Comments

Page  of

MICROSCOPE

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

**A**

*Handwritten notes:*  
 ISM NSD  
 CS NSD  
 BC NSD  
 43 NSD

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

16 Lines

**OBSERVATIONS:**

Clean  Debris:  Very Light  Light  Moderate  Heavy  Very Heavy

Gypsum:  Very Light  Light  Moderate  Heavy  Very Heavy

Condition of the Gnd:  Good  Scrappy  Undissolved Filter  Folded

EMS LABORATORIES 117 West Bellvue Drive • Pasadena, CA 91105-2503 • (626) 588-4085

# TEM ASPHALT ANALYSIS

MICROSCOPE

Client: LA STAFFS  
 EMS Lab No. 7444  
 Sample No. EX041089

**RECEIVING**

**ANALYSIS**

Gifts Address: 39400 H600A - Serial No. 542-36-01   
 Screen Magnification: 3947 H600B - Serial No. 542-05-06   
 Camera Current: 100 H600C - Serial No. 542-24-03   
 Accelerating Voltage: 100 KV   
 Beam Current: 10 μA

Analyst: W Lee Date: 11-20-04

Comments

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

86-296

*(Handwritten scribbles)*

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

**AIR SAMPLING DATA**

1. FACILITY IDENTIFICATION  
 VA-GIAHS  
 2. STATION NO. 619  
 3. REGION NO. 22

4. EMPLOYEE INFORMATION  
 a. NAME OF EMPLOYEE  
 b. SSN  
 c. JOB TITLE

a. ADDRESS (Street, City, State & Zip Code)  
 b. MANUFACTURER  
 c. APPROVAL No. (for Respirator)

d. PERSONAL PROTECTIVE EQUIPMENT USED  
 e. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED.

Contractor:  
 Project: TSI - ACM Removal from Pipe Insulation & Elbow  
 Location: Bldg. 256, Room 12

Date: 12-01-04

5. SAMPLING INFORMATION  
 a. SAMPLE TYPE/MEDIA  
 b. SAMPLE SUBMISSION NO.  
 c. TIME ON  
 d. TIME OFF  
 e. TOTAL TIME (in minutes)  
 f. FLOW RATE (l/min)  l/min  /min  
 g. VOLUME (in liters)

6. RESULTS (For Laboratory Use)  
 a. PERCENTAGE  
 b. TYPE

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

8. COMMENTS TO LABORATORY  
 PCM / TEM

a. ANALYTICAL LABORATORY NAME  
 EMS Laboratories  
 b. ADDRESS  
 117 West Bellevue Dr. Pasadena, CA 91105

10. EQUIPMENT IDENTIFICATION (Manufacturer & Serial No.)  
 10a. (PRE) CALI-  
 10b. FLOW RATE CALCULATIONS  
 10-15 liter / min  
 12-01-04  
 10c. (POST) CALI-  
 10-15 liter / min  
 12-01-04  
 10d. FLOW RATE CALCULATIONS  
 10-15 liter / min

NAME & JOB TITLE (Person Performing Sampling)  
 Kevin Kelly, SST 97-2293  
 DATE 12-01-04  
 USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

AUTOMATED VA Form 10-0018 (in lieu of)

86-397



Date: 12-01-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 12-01-04

Location: Bldg. 256, Room 12

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor: Rene Villacorta

Type of ACM: TSI Pipe Insulation & Elbow

Quantity of ACM: 40 L Ft.

Abatement Type & Method(s): Glove bag, Wet & Peel

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Worker Annual Medical Current: Yes  No

Notification to: SCAQMD Yes  No  CAL/OSHA Yes  No  Date: \_\_\_\_\_

I. Administrative Controls:

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

B. Employees in Building Notified of Abatement: Yes  No

C. Competent Person Outside of Work Area: Yes  No

D. Asbestos Worksite Log: Yes  No

II. Air Monitoring:

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

B. Contractor Calibrated Pumps: Yes  No

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

D. VAMC - IH Monitoring: \_\_\_\_\_

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

2. Pre-Tests: SX0401095

3. Perimeter: SX0401096, SX0401097

4. Inside Work Area: \_\_\_\_\_

86-348

86-399



5. Clearance: SX0401098

6. VAIH Laboratory: EMS Laboratories, Pasadena

III. Contractor's PPE:

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

B. Coveralls: Yes, Tyvec

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 Chambers: 2 Shower: Yes No X

D. If Containment in Use, are Critical Openings Properly Sealed: 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: \_\_\_\_\_

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 Gr. Room 12 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 12/01/04 are as follows:

Bldg. 256 Floor: Gr. Room: 12 Structures/mm<sup>2</sup> N.D.

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

86-400

# 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: 97497.1 Date Received: 12-2-04 Filter Type: MCE Filter Area: 385

Client: VAGLAHS Date Analyzed: 12-2-04 Mag: 400x Field Area: 0.00785MM

Address: 11301 WILSHIRE BLVD Date Sampled: 12-1-04 Project #: B256, R12 Filter Size: 25MM

LOS ANGELES, CA 90073 Attended: B.SPIVEY File Name: 71971VAGLAHSXLR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.µm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX041095	100	87.5	111	42914	1200.0	0.0358	0.0022	0.0257	0.0004
SX041096	100	16	20	7847	1200.0	0.0065	0.0022	0.0257	0.0004
SX041097	100	8	10	3924	1350.0	0.0029	0.0020	0.0228	0.0004

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

ALHA Registered Asbestos Analyst

I.D. 7795 CARL BERGMAN  B.M. Kolk, Laboratory Director

I.D. 2033 JEFF WAN

I.D. 3276 S.AHMAD

Intralaboratory Sr is taken as 0.45. Intralaboratory Sr is 0.3. Confidence interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.3

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

86-401

W

DATE: December 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-C40433  
B256, R12

REPORT NO: 97497

DATE COLLECTED: 12/1/04 by K. Kelly

DATE RECEIVED: 12/2/04 at 1030

DATE ANALYZED: 12/2/04

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

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX041098

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.

86-402

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 97497  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_  
 Date Received 12/2/04  
 Date Analyzed 12/2/04  
 Verbal Results \_\_\_\_\_  
 Fax Results \_\_\_\_\_

DIRECT PREP	<input checked="" type="checkbox"/>	ASPECT RATIO	3:1	<input type="checkbox"/>	STRUCTURE SIZE	All Sizes (EPA)	<input type="checkbox"/>	25 µm Length	<input type="checkbox"/>
INDIRECT PREP	<input type="checkbox"/>		5:1	<input checked="" type="checkbox"/>		≥0.5 µm Length	<input checked="" type="checkbox"/>	PCM Range*	<input type="checkbox"/>
						≥25 µm Length	<input type="checkbox"/>	*(≥0.25 µm Width, ≥5.0 µm 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	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit
SX 041098	1200	-	N.D.	N.D.	0.005	0	0.02

86-463

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 \_\_\_\_\_

SUBMITTAL FORM/Laboratory Services

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

CLIENT WA-GLASS (130b) DATE OF SHIPMENT 12.29.04 CARRIER

ADDRESS 11301 WILSHIRE BLVD., BLDG 218 CLIENT P.O. NO. RM 308 CLIENT JOB/PROJECT ID NO(S). B256, R12

TELEPHONE [REDACTED] CONTACT BEN SPIVEY

RESULTS REQUESTED VIA  VERBAL  FAX  CLIENT FAX NO. [REDACTED]

DATE/TIME OF SAMPLE COLLECTION 12.01.04 HOLDING TIMES n/a SIGNATURE [Signature] PRINTED KEYLY

SAMPLE PRESERVATIVES n/a NO. OF SAMPLES SENT 7 (3FL) SAMPLER'S NAME [Signature] TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT/TUBE  IMPINGER  OTHER

EMMS Sample No. (FOR EMMS ONLY) 97497 CLIENT SAMPLE NO. 5X041095 DESCRIPTION LOCATION ANALYSIS PCW VOLUME 1200L TIME WEIGHT 1200L

EMMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME	TIME	WEIGHT
97497.5	5X041095	prework / 1m	PCW	1200L			
6	5X041096	dumuck / 0.2m	PCW	1200L			
7	5X041097	dumuck / 0.2m	PCW	1350L			
8	5X041098	cleartech / 1m	TEM	1200L			

*Please provide the clearances for result by 1pm Thurs 12/2. Paperwork by samples 5/12/04*

Condition of Package on Receipt: [Signature]  
 Condition of Package on Delivery: [Signature]  
 Date of Package Delivery: 12-02-04  
 Received By: [Signature] Time: 10:30  
 Shipping Bill Receipt:  YES  NONE  
 Condition of Custody Seal: [Signature]  
 Chain-of-Custody Signature: [Signature]  
 Date of Acceptance into Sample Bank: 12-02-04  
 Misc. Info: 86-1404  
 Disposition of Samples: 3 FL

FOR EMMS ONLY (SF 5/00)

97497

504-98



TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S. EMS NO: 97497  
 SAMPLE DESCRIPTION: SX 041098 RECEIVED: 12/2/04 ANALYZED: 12/2/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 19.300X  
 METHOD OF ANALYSIS: AHERA  
 VOLUME OF AIR: 1200 L  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385

ASBESTOS STRUCTURE DESCRIPTION      COUNTED IN TEM      CALCULATED VALUE

Total Number of Fibers ..... N.D. /cc

Total Chrysotile Fibers ..... N.D. /cc  
 Fiber Length: Range(um) ..... N.D. - MEAN N.D. um  
 Fiber Diameter: Range(um) ..... N.D. - MEAN N.D. um  
 Aspect Ratio: Range ..... N.D. - MEAN N.D.  
 Fibers <5um/ Fibers >=5um ..... N.D. / N.D. /cc  
 Total Amphibole Fibers ..... N.D. /cc

Fiber Length: Range(um) ..... N.D. - MEAN N.D. um  
 Fiber Diameter: Range(um) ..... N.D. - MEAN N.D. um  
 Aspect Ratio: Range ..... N.D. - MEAN N.D.  
 Fibers <5um/ Fibers >=5um ..... N.D. / N.D. /cc  
 Total Number of Asbestos Bundles ..... N.D. /cc

Total Number of Asbestos Cluster Clumps ..... N.D. /cc  
 Total Number of Asbestos Matrix/Debris ..... N.D. /cc

TOTAL NUMBER OF ASBESTOS STRUCTURES

Chrysotile ..... N.D. /cc  
 Amphibole ..... N.D. /cc  
 Crocidolite ..... N.D. /cc  
 Tremolite ..... N.D. /cc  
 Amosite ..... N.D. /cc  
 Anthophyllite ..... N.D. /cc  
 Actinolite ..... N.D. /cc

TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES

TOTAL NUMBER OF ASBESTOS STRUCTURES

Sensitivity Level(Structures/cc) ..... N.D. /cc  
 Lower 95% Confidence Limit(Structures/cc) ..... 0  
 Upper 95% Confidence Limit(Structures/cc) ..... 0.02

TOTAL NUMBER OF UNIDENTIFIED STRUCTURES

ASBESTOS STRUCTURES/mm<sup>2</sup> ..... N.D.

COMMENTS: LIGHT TO MODERATE DEBRIS

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

86-406

87-98

# TEM ANALYSIS

EMS Lab No. 97497  
Client VICTALIS  
Sample No. 5X041098

## RECEIVING

**METHOD OF ANALYSIS**

EPA Verifiable Level I  Level II  Level III  ANERPA

ASPECT RATIO 3:1  5:1

**LENGTHS**

AS Size68 (EPA)  (um) : > 0.5   
(um) : > 5.0   
(um) : > 10.0   
PCM Ranges   
(40-25 um width, 50-100 um length)

**TYPE OF SAMPLE**

Air  Soil  Bulk  Water  Wipe  Other  Dust/Microbe

**FILTER TYPE/AREA (um<sup>2</sup>)**

MCE/285  MCE/314  MCE/1017  Other

PORE SIZE

0.45 um  0.8 um   
0.1 um  0.22 um  Other

G.O. Area (mm<sup>2</sup>) 0.0  
No. of G.O. to Analyze 093

## PREP

**DIRECT PREP**  **INDIRECT PREP**

Volume 100 ul  
Working Volume 10 ul  
Weight 10 grams  
Aspet Area 10 %

Date 12-04  
Prepared By LD

## ANALYSIS

Grid Address A54  
Screen Magnification 5000x  
Current Constant 5000  
Accelerating Voltage 100 kV  
Beam Current 10 uA

Analyst Wen  
Date 12-2-04

Page 1 of 1

MONOSCOPE

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

## Comments

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

16 Lines

**OBSERVATIONS:**

Clean  Debris  Gypsum  Condition of the Grid:  Very Light  Good

Light  Moderate  Heavy  Very Heavy

Light  Moderate  Heavy  Very Heavy

Scrappy  Undischarged Filter  Folded

Very Light  Very Heavy

**TEM ASBESTOS ANALYSIS**

EMS Lab No. 77497  
 Client VA 66AHS  
 Sample No. SX041098

Page 1 of       
 MICROSCOPE

Grid Address B 19405 H600A - Serial No. 542-36-01   
 Screen Magnification 5000 H600B - Serial No. 542-05-06   
 Camera Constant 5777 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100KV  
 Beam Current 10  $\mu$ A

**ANALYSIS**

**RECEIVING**

Analyst Wagon Date 12/20/00

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments			
			Width	Length	Thickness	Chrysotile	Amphibole	Amfibons	Iron Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id	
<u>6000</u>	<u>2323</u>	<u>6000</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

894-468

**AIR SAMPLING DATA**

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

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

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

6. PERSONAL PROTECTIVE EQUIPMENT USED  
 a. MANUFACTURER N/A  
 b. APPROVAL No. (for Respirator)

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

Date: 12-04-05  
 Project: Removal Floor Tile & Mastie.  
 Contractor: Unlimited Environmental, Inc.  
 Location: Bldg. 113 Floor: 1<sup>st</sup>, Room: 118 & Fire Apparatus Closet betn Rm 134 & 135.

8. FREQUENCY (How long job takes) N/A  
 9. DURATION (How long of this job) N/A  
 10. NUMBER OF EMPLOYEES DOING THIS JOB N/A

6. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 304	SAMPLE 305	SAMPLE 306
a. SAMPLE TYPE/MEDIA	Work in progress/OW/PCM	Clearance/IW/TEM	Work in progress/IW/TEM
b. SAMPLE SUBMISSION NO.	SX050304	SX050305	SX050306
c. TIME ON	07:30	09:30	12:00
d. TIME OFF	09:00	11:30	14:52
e. TOTAL TIME (in minutes)	120	120	172
f. FLOW RATE <input checked="" type="checkbox"/> ml/min <input type="checkbox"/> l/min	10	10	7
g. VOLUME (in liters)	1200	1200	1204

8. RESULTS (For Laboratory Use)

a. PERCENTAGE		b. TYPE	
P = PPM	M = mg/m <sup>3</sup>	F = Fibers	C = Colling
T = Time Weighted Average			
Unit:	F/CC	S/mm <sup>2</sup>	S/mm <sup>2</sup>
Asbestos (PCM)	0.0031		
Asbestos (TEM)		N.D.	N.D.

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

8. IN COMMENTS TO LABORATORY  
 PCM/TEM

9a. ANALYTICAL LABORATORY NAME  
 EMS Laboratories

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

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CAL-  
 10b. FLOW RATE CALCULATIONS  
 7-10 liter/minute

10c. (POST) CAL-  
 10d. FLOW RATE CALCULATIONS  
 7-10 liter/minute

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

11. NAME & JOB TITLE (Person Performing Sampling)  
 Scott Campbell, SST 99-2639

DATE: 04/12/05

12. NAME & JOB TITLE (Person Performing Sampling)  
 Scott Campbell, SST 99-2639

DATE: 04/12/05

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

86-409

Date: 04/12/05

From: Industrial Hygiene (130B)

Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSSST/CAC: Scott Campbell

Abatement Dates: 04/12/05

Location: Bldg. 113 Floor: 1<sup>st</sup>, Room: 118 & Fire Apparatus Closet betn 134&135

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor: Javier Cruz

Type of ACM: 12x12 Floor Tile & associated mastic.

Quantity of ACM:

Abatement Type & Method(s): Manually remove

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Worker Annual Medical Current: Yes  No

Notification to: SCAQMD Yes  No

Date: \_\_\_\_\_ Date: \_\_\_\_\_

I. Administrative Controls:

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

B. Employees in Building Notified of Abatement: N/A 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

2. Pre-Tests: \_\_\_\_\_

3. Perimeter: SX050304

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

86-410

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

Bldg. 113	Room: Fire Apparatus Closet	N.D. Structures/mm <sup>2</sup>	Room: _____	Structures/mm <sup>2</sup>
	Floor: 1st	Fibers/cc	Room: _____	Fibers/cc
	Floor: _____		Room: _____	
	Floor: _____		Room: _____	

B. Final Air Sampling Results: The results of the clearance air samples taken on 04/12/05 are as follows:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 113, Floor: 1st, Room: Fire Apparatus Equipment Closet betn Rm 134&135 indicated that all planned asbestos-containing materials were removed and there was no visible asbestos dust or debris in the work areas.

V. Results of Final Inspections & Air Sampling:

- K. Encapsulation: Yes  No  Name & Type: Foster 32-60
- L. Work Area Ready for Clearance Air Testing: Yes  No
- J. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes  No
- I. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes  No
- H. External AFD Filters Replaced Daily: Yes  No
- G. Amended Water Used: Yes  No  How Applied: Hudson Sprayer
- F. Adeq. Neg. Pressure Diff. in Containment: Yes  No
- E. Neg. Air/HEPA Filtration Used: Yes  No  Licensed: Yes  No
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes  No
- C. Proper Decon: Yes  No  Chambers: 1 Shower: Yes  No
- B. Containment: Yes  No  Thickness of Polyethylene: 6 mil
- A. Glove bags: Yes  No  Properly Taped to Pipes: Yes  No

IV. Engineering Controls:

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

III. Contractor's PPE:

- 4. Inside Work Area:
- 5. Clearance: SX050305, SX050306
- 6. VAH Laboratory: EMS Laboratories

86-411

# 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: 99854.1 Date Sampled: 4-12-05 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Received: 4-13-05 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILLSHIRE BLVD Date Analyzed: 4-18-05 Project #: BLDG 113 Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 99854.1 VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sqmm	Fiber/Filter	Vol (Lit)	Fibers/CC	LOD	LOQ	ANL SENT
SX-050-304	100	7.5	10	3678	1200.0	0.0031	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

AIDHA Registered Asbestos Analyst

I.D. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 SAHMAD



B.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

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86-412

8-413

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.

BMK/ah

B. M. Kolk  
Laboratory Director



EMS LABORATORIES, INC.

Respectfully submitted,

The test reports are enclosed.

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 samples were identified as: SX050305, SX050306

SUBJECT: ANALYSIS OF AIR SAMPLES BY TRANSMISSION ELECTRON MICROSCOPY

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

DATE ANALYZED: 4/13/05

DATE RECEIVED: 4/13/05 at 0930

DATE COLLECTED: 4/12/05 by Scott Campbell

REPORT NO: 99854

REFERENCE: P.O. NO. 691-C55059  
Contract: V691P-7282  
Bldg. 113 - Rm. 118 & Fire Apparatus Closet  
between Rooms 134-135

ATTENTION: Ben Spivey

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

CLIENT:

DATE: April 14, 2005



# RESULT OF AIR FILTER ANALYSIS by TEM for Asb. Structures

EMS Laboratory No. 99854  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_  
 Date Received 4/13/05  
 Date Analyzed 4/13/05  
 Verbal Results \_\_\_\_\_  
 Fax Results \_\_\_\_\_

DIRECT PREP	<input checked="" type="checkbox"/>	ASPECT RATIO	3:1	<input type="checkbox"/>	STRUCTURE SIZE	All Sizes (EPA)	<input type="checkbox"/>	≥ 25 μm Length	<input type="checkbox"/>
INDIRECT PREP	<input type="checkbox"/>		5:1	<input checked="" type="checkbox"/>		≥ 0.5 μm Length	<input checked="" type="checkbox"/>	PCM Range*	<input type="checkbox"/>
						≥ 25 μm Length	<input type="checkbox"/>	*(≥ 0.25 μm Width, ≥ 25.0 μm 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	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

SX 050305	1200	-	N.D.	N.D.	0.005	0	0.02
SX 050306	1204	-	N.D.	N.D.	0.005	0	0.02

111-98

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

**SUBMITTAL FORM/Laboratory Services**

99854

TURNAROUND TIME: STD 48 HR. 24 HR. OTHER: RM=STANDARD  
8 HR. WKND

CLIENT VA-GLASS (130B) + SEE BELOW

ADDRESS 11301 WILSHIRE BLVD., BLDG 218

LOS ANGELES, CA 90025 RM 308

TELEPHONE BEN SPIVY

CONTACT BUILDING 113 - ROOMS - 118 & FIRE APPARATUS ROOM

RESULTS REQUESTED VIA VERBAL  FAX

DATE/TIME OF SAMPLE COLLECTION 4-12-05

SAMPLE PRESERVATIVES N/A

NO. OF SAMPLES SENT 3

SAMPLER'S NAME Scott Campbell

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

DESCRIPTION LOCATION ANALYSIS

CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS
5X-050-304	WORK IN PROGRESS CAL-10.8
5X-050-305	PCMA AIR
5X-050-306	FINAL

EMMS Sample No. 99854-1-4  
99854-5  
6

CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS
5X-050-304	WORK IN PROGRESS CAL-10.8
5X-050-305	PCMA AIR
5X-050-306	FINAL

Laboratory No. 99854

Date of Package Delivery 4-13-05

Condition of Package on Receipt

No. of Samples 271

Date of Acceptance into Sample Bank 4-13-05

Misc Info 61-415

Disposition of Samples

TXVA ENG / ARBOATMICS 117 West Hollister Drive / Pasadena CA 01105 95027 626 568 0065

FOR EMMS LY (SF 5/00)

914-78

TEM ASBESTOS AIR REPORT

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

EMS NO: 99854

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

VOLUME OF AIR: 1200 L

METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 050305

RECEIVED: 4/13/05

ANALYZED: 4/13/05

AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0658

GRID OPENING AREA (mm<sup>2</sup>): 0.0094

SCREEN MAGNIFICATION: 19,300X

ASBESTOS STRUCTURE DESCRIPTION

Total Number of Fibers

Total Chrysotile Fibers

Fiber Length: Range(um)

Fiber Diameter: Range(um)

Aspect Ratio: Range

Fibers <sum/ Fibers >=5um

Total Amphibole Fibers

Fiber Length: Range(um)

Fiber Diameter: Range(um)

Aspect Ratio: Range

Fibers <sum/ Fibers >=5um

Total Number of Asbestos Bundles

Total Number of Asbestos Cluster Clumps

Total Number of Asbestos Matrix/Debris

TOTAL NUMBER OF ASBESTOS STRUCTURES

Chrysotile

Amphibole

Crocidolite

Tremolite

Amosite

Anthophyllite

Actinolite

TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES

TOTAL NUMBER OF ASBESTOS STRUCTURES

Sensitivity Level(Structures/cc)

Lower 95% Confidence Limit(Structures/cc)

Upper 95% Confidence Limit(Structures/cc)

TOTAL NUMBER OF UNIDENTIFIED STRUCTURES

ASBESTOS STRUCTURES/mm<sup>2</sup>

MODERATE DEBRIS

COMMENTS:

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

86-417

# TEM ASBESTOS ANALYSIS

EMS Lab No. **99854**

Client **VA-GRANTS**

Sample No. **SX-050-305**

TYPE OF SAMPLE  
 AIR  
 SOIL  
 Bulk  
 Water  
 Wipe  
 Other

Filter (TYPE/AREA (mm<sup>2</sup>))  
 MCE/395  
 MCE/714  
 MCE/1017  
 Other

## RECEIVING

METHOD OF ANALYSIS  
 EPA Yarnale Level I   
 Level II   
 Level III   
 AHERA   
 PCM Range\*  (>25 µm width, <4.0 µm length)

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

## PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume **1200** µl  
 Working Volume  ml  
 Weight  grams  
 Ashed Area  %  
 Date **04-13-05**  
 Prepared By **JAP**

## ANALYSIS

Grid Address **A4**  
 Screen Magnification **1000x**  
 Camera Constant **51.4**  
 Accelerating Voltage **100** kV  
 Beam Current **1.4** µA

MICROSCOPE

H600A - Serial No. 542-36-01

H600B - Serial No. 542-05-06

H600C - Serial No. 542-24-03

Analyst **Leale** Date **4/13/05**

Comments

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis						
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe	Id
<b>5.5 µm</b>	<b>1390</b>	<b>N30</b>														
<b>4.5 µm</b>	<b>1391</b>	<b>N31</b>														
<b>4.5 µm</b>	<b>1392</b>	<b>N32</b>														
<b>4.5 µm</b>	<b>1393</b>	<b>N33</b>														
<b>4.5 µm</b>	<b>1394</b>	<b>N34</b>														
<b>4.5 µm</b>	<b>1395</b>	<b>N35</b>														
<b>4.5 µm</b>	<b>1396</b>	<b>N36</b>														

**8HT 9B**

16 Lines

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

# LEMI ANNEB I US ANALYSIS

EMS Lab No. 99854

Client WESTAIRS

Sample No. SX-050-305

RECEIVING

## ANALYSIS

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 100x H600B - Serial No. 542-05-06   
 Camera Constant 18 H600C - Serial No. 542-24-03   
 Accelerating Voltage 10 100 KV   
 Beam Current 10 10A

Analyst SA Date 4/13/82

Comments

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

*Handwritten notes:*  
 C176 NSD  
 C174 NSD  
 C173 NSD

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

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*Handwritten:* 617-98

86-420

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

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

REMARKS: LIGHT TO MODERATE DEBRIS

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S. EMS NO: 99854  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385 VOLUME OF AIR: 1204 L METHOD OF ANALYSIS: AHERA  
 SAMPLE DESCRIPTION: SX 050306 RECEIVED: 4/13/05 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0658  
 GRID OPENING AREA (mm<sup>2</sup>): 19.300X SCREEN MAGNIFICATION: 0.0094

# TEM ASBESTOS ANALYSIS

EMS Lab No. 99834

Client VA-GIANTS

Sample No. SX-050-306

## RECEIVING

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

LENGTHS  
 All Sizes (EPA)   
 (um) : > 2.0.5   
 (um) : > 5.0   
 (um) : > 10.0   
 PCM Range\*

G.O. Area (mm<sup>2</sup>) 0.0  
 No. of G.O. to Analyze 094

TYPE OF SAMPLE  
 Air   
 Soil   
 Bulk   
 Water   
 Wipe   
 Other

FILTER TYPE/AREA (mm<sup>2</sup>)  
 MCE295   
 MCE314   
 MCE/1017   
 Other

## PREP

DIRECT PREP   
 INDIRECT PREP   
 Volume 1204 ml  
 Working Volume          ml  
 Weight          grams  
 Ashed Area          %

## ANALYSIS

Grid Address           
 Screen Magnification           
 Camera Constant           
 Accelerating Voltage          kV  
 Beam Current          uA

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

Analyst Leah Date 11/2/01

Comments

17-98

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis						
			Width	Length	Thickness	Chrysotile	Amphibole	Amorphous	Non Asbestos	No Pattern	Na	Mg	Si	Ca	Fe	Id
0150	111	ASB														
0150	112	ASB														
0150	113	ASB														
0150	114	ASB														
0150	115	ASB														
0150	116	ASB														
0150	117	ASB														
0150	118	ASB														
0150	119	ASB														
0150	120	ASB														
0150	121	ASB														
0150	122	ASB														
0150	123	ASB														
0150	124	ASB														
0150	125	ASB														
0150	126	ASB														
0150	127	ASB														
0150	128	ASB														
0150	129	ASB														
0150	130	ASB														

16 Lines

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

Very Light   
 Very Light   
 Good

Light   
 Light   
 Scabby

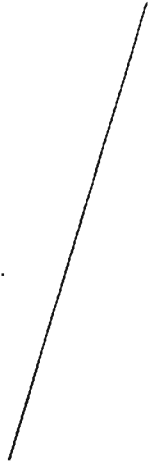
Moderate   
 Moderate   
 Undissolved Filter

Heavy   
 Heavy   
 Folded

Very Heavy   
 Very Heavy



86-422



# STEM ANALYTICAL ANALYSIS

EMS Lab No. 22854  
 Client VAGUATS  
 Sample No. SX-050-306

**RECEIVING**

## ANALYSIS

Grid Address H600A - Serial No. 542-36-01   
 Screen Magnification x10000B - Serial No. 542-05-06   
 Camera Constant 28.2  
 Accelerating Voltage 100 kV   
 Beam Current 10  $\mu$ A

Analyst S.A Date 4/13/0

Grid Overlay	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments				
			Width	Length	Thickness	Chrysotile	Amphibole	Amfibious	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe	Id		
<u>CU1</u>	<u>NSD</u>																		
<u>CU2</u>	<u>NSD</u>																		
<u>CU3</u>	<u>NSD</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

**AIR SAMPLING DATA**

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

4. EMPLOYEE INFORMATION  
 a. NAME OF EMPLOYEE  
 b. SSN  
 c. JOB TITLE

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

7. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED.  
 Date: 12-07-04 & 12-08-04  
 Project: Demolition For Asbestos.  
 Contractor: Unlimited Environmental, Inc  
 Location: Bldg. 304, 1st Floor South East Hall

8. FREQUENCY (How long job takes)  
 N/A  
 9. DURATION (How long at this job)  
 N/A  
 10. NUMBER OF EMPLOYEES DOING THIS JOB  
 N/A

5. SAMPLING INFORMATION

(Fill in Sample No.)	a. SAMPLE TYPE/MEDIA	b. SAMPLE SUBMISSION NO.	c. TIME ON	d. TIME OFF	e. TOTAL TIME (in minutes)	f. FLOW RATE <input checked="" type="checkbox"/> ml/min <input type="checkbox"/> l/min	g. VOLUME (in liters)
SAMPLE 1102	1WA South East Hall / PCM	SX041102	0730	0930	120	10	1200
SAMPLE 1103	1WA South East Hall / PCM	SX041103	0740	0940	120	10	1200
SAMPLE 1104	1WA South East Hall / TEM	SX041104	0800	1000	120		1200

8. RESULTS (For Laboratory Use)  
 a. PERCENTAGE  
 b. TYPE  
 P = PPM M = mg/m<sup>3</sup> F = fibers C = Ceiling T = Time Weighted Average

Unit	F/CC	F/CC	S/m <sup>3</sup>
Asbestos (PCM)	N/A	0.0333	
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  
 EMS Laboratories  
 b. ADDRESS  
 117 West Bellvue Dr. Pasadena, CA 91105  
 10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALL-BRATION DATE 12-07 & 12-08-04  
 10b. FLOW RATE CALCULATIONS 10 liter / min  
 10c. (POST) CALL-BRATION DATE 12-07 & 12-08-04  
 10d. FLOW RATE CALCULATIONS 10 liter / min

11. NAME & JOB TITLE (Person Performing Sampling)  
 Kevin Kelly, SST 97-2293  
 DATE 12-07 & 12-08-04  
 USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

STANDARD VA Form 10-0018 (in lieu of)

86-424

Date: 12-07 & 12-08-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSSST/CAC: Kevin Kelly

Abatement Dates: 12-07 & 12-08-04

Location: Bldg. 304, 1st Floor South East Hall

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor:

Type of ACM:

Quantity of ACM: sq-ft

Abatement Type & Method(s):

Contractor Licensed & Registered: Yes  No

Worker Training Current: Yes  No

Worker Annual Medical Current: Yes  No

Notification to: SCAQMD Yes  No

Date: \_\_\_\_\_

Date: \_\_\_\_\_

CAL/OSHA Yes  No

Safety Meeting: Yes  No

Fit Tested: Yes  No

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

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

B. Contractor Calibrated Pumps: Yes  No

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

D. VAMC - IH Monitoring: \_\_\_\_\_

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

2. Pre-Tests: \_\_\_\_\_

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

4. Inside Work Area: SX041102, SX041103

5. Clearance: SX041104

86-425

III. Contractor's PPE:

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

IV. Engineering Controls:

- A. Glove bags: Yes  No  Properly Taped to Pipes: Yes  No
- B. Containment: Yes  No  Thickness of Polyethylene: 6 mil
- C. Proper Decon: Yes  No  Chambers:          Shower: Yes  No
- D. If Containment in Use, are Critical Openings Properly Sealed: 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  Work Area Ready for Clearance Air Testing

Name & Type: Forster

V. Results of Final Inspections & Air Sampling:

A. Results of Final Inspections: Final visual inspection in the abatement area of Bldg. 304, Floor 1<sup>st</sup> South East 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 12/1/07

& 12/08/04 are as follows:  
Bldg. 304 Floor: 1<sup>st</sup> Room: South East Hall 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

86-426

# SUBMITTAL FORM Laboratory Services

# 97621

TURNAROUND TIME: STD  24 HR.  46 HR.  72 HR. OTHER:

REINQUISHED BY: Key TIME/DATE: 12.08.04

CLIENT: VA-GEARS (1205) DATE OF SHIPMENT: \_\_\_\_\_ CARRIER: \_\_\_\_\_

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

LOS ANGELES, CA 90025 RM 30

TELEPHONE: \_\_\_\_\_ CONTACT: BEN SPIVRY

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

RESULTS REQUESTED VIA:  VERBAL  FAX

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

DATE/TIME OF SAMPLE COLLECTION: 12.07/12.08.04

SAMPLE PRESERVATIVES: N/A

NO. OF SAMPLES SENT: 3

SAMPLER'S NAME: [Signature] SIGNATURE: [Signature] PRINTED: Key

TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER

EMMS Sample No. 97621-1-2

CLIENT SAMPLE NO. 5X041102

DESCRIPTION LOCATION ANALYSIS down 1/5E Hall/1WA

EMMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION LOCATION ANALYSIS
<u>97621-1-2</u>	<u>5X041102</u>	<u>down 1/5E Hall/1WA</u>
<u>3</u>	<u>5X041103</u>	<u>down 1/5E Hall/1WA</u>
<u>4</u>	<u>5X041104</u>	<u>down 1/5E Hall/1WA</u>

<b>FOR E NLY</b>		
(SF 5100)		
<b>EMMS LABORATORIES</b>		
117 West Bellevue Drive / Pasadena CA 91105-2503 / 626-568-4065		
86447		

LABORATORY No. 97621

DATE OF PACKAGE DELIVERY: 12-9-04

RECEIVED BY: [Signature]

SHIPPING BY: [Signature]

CONDITION OF PACKAGE ON RECEIPT: [Signature]

NO. OF SAMPLES: 2 + 1

DATE OF ACCEPTANCE INTO SAMPLE BANK: 12-9-04

DISPOSITION OF SAMPLES: [Signature]

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

Condition of Custody Seal: [Signature]

Shipping Method:  YES  NO

CLIENT SIGNATURE: [Signature]

DATE: 12-9-04

PROJECT NO: 102

86-428

# 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: 97621.1 Filter Type: MCE Filter Area: 385  
 Client: VAGLAHS Date Received: 12-9-04 Date Analyzed: 12-10-04 Mag: 400x Field Area: 0.00785MM  
 Address: 11301 WILSHIRE BLVD Date Sampled: 12/7,8/04 Project #: B304, 1ST FL Filter Size: 25MM  
LOS ANGELES, CA 90073 Attention: B SPIVEY File Name: 97621.VAGLAB.SAR

Sample I.D.	Fields Counted	Fibers Counted	F/Sqmm	Fiber/Filter	Vol (Lit)	Fibers/CC	LOD	LOQ	ANL SENT
SX041102	OVERLOADED				1200.0	N.A.	0.0022	0.0257	0.0004
SX041103	100	81.5	104	39971	1200.0	0.0333	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. 7795 CARL BERGMAN  
 I.D. 2033 JEFF WAN  
 I.D. 3276 S.AHMAD



B.M. Kolk, Laboratory Director



Interlaboratory Str is taken as 0.45 Interlaboratory Str 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

86-429



DATE: December 10, 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-C40433  
B304, 1st Flr, Demo

REPORT NO:

97621

DATE COLLECTED:

12/7-8/04 by K. Kelly

DATE RECEIVED:

12/9/04 at 1020

DATE ANALYZED:

12/9/04

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

SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

The sample was identified as: SX041104

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.

*BMK/ah*

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.

86-420

# RESULT OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 97621  
 Client V.A.G.L.A.H.S.  
 Location \_\_\_\_\_  
 Date Received 12/9/04  
 Date Analyzed 12/9/04  
 Verbal Results \_\_\_\_\_  
 Fax Results \_\_\_\_\_

DIRECT PREP	<input checked="" type="checkbox"/>	ASPECT RATIO	3:1	<input type="checkbox"/>	STRUCTURE SIZE	All Sizes (EPA)	<input type="checkbox"/>	≥ 25 µm Length	<input type="checkbox"/>
INDIRECT PREP	<input type="checkbox"/>		5:1	<input checked="" type="checkbox"/>		≥ 0.5 µm Length	<input checked="" type="checkbox"/>	PCM Range*	<input type="checkbox"/>
						≥ 25 µm Length	<input type="checkbox"/>	*(≥ 0.25 µm Width, ≥ 25.0 µm 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	Analytical Sensitivity	95% CONFIDENCE LEVELS	
						Lower Limit	Upper Limit

SX 041104      1200      -      31      0.01      0.005      0.001      0.04

66431

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 (Yamane, 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: 97621  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385 VOLUME OF AIR: 1200 L METHOD OF ANALYSIS: AHERA  
 RECEIVED: 12/9/04 ANALYZED: 12/9/04 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651 GRID OPENING AREA (mm<sup>2</sup>): 19.300X SCREEN MAGNIFICATION: 0.0093

ASBESTOS STRUCTURE DESCRIPTION COUNTED IN TEM CALCULATED VALUE

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Total Number of Fibers	1	0.005 /cc
Total Chrysotile Fibers	1	0.005 /cc
Fiber Length: Range(um)	11 -	MEAN 11 um
Fiber Diameter: Range(um)	0.3 -	MEAN 0.3 um
Aspect Ratio: Range	43 -	MEAN 43
Fibers <5um/ Fibers >=5um	N.D. /	N.D. / 0.005 /cc
Total Amphibole Fibers	N.D.	N.D. /cc
Fiber Length: Range(um)	N.D. -	MEAN N.D. um
Fiber Diameter: Range(um)	N.D. -	MEAN N.D. um
Aspect Ratio: Range	N.D. -	MEAN N.D.
Fibers <5um/ Fibers >=5um	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	1	0.005 /cc

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
Chrysotile	2	0.01 /cc
Amphibole	2	0.01 /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
TOTAL NUMBER OF ASBESTOS FIBERS AND BUNDLES	1	0.005 /cc
TOTAL NUMBER OF ASBESTOS STRUCTURES	2	0.01 /cc

ASBESTOS STRUCTURE DESCRIPTION	COUNTED IN TEM	CALCULATED VALUE
TOTAL NUMBER OF ASBESTOS STRUCTURES	2	0.01 /cc
Sensitivity Level((Structures/cc)		0.005
Lower 95% Confidence Limit((Structures/cc)		0.001
Upper 95% Confidence Limit((Structures/cc)		0.04
TOTAL NUMBER OF UNIDENTIFIED STRUCTURES	N.D.	N.D. /cc
ASBESTOS STRUCTURES/mm <sup>2</sup>	31	

COMMENTS: MODERATE DEBRIS

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

86-432

# TEM ANALYSIS

EMS Lab No. 47621

Client VALLEY

Sample No. 5X041109

## RECEIVING

METHOD OF ANALYSIS

EPA Yarnale Level I

Level II

Level III

AHERA

ASPECT RATIO  $\leq$  1   $\geq$  1

AI Sizes (EPA)

( $\mu$ m) : 2-0.5

( $\mu$ m) : > 5.0

( $\mu$ m) : > 10.0

PCMA Ranges

(4-25  $\mu$ m when  $\geq$  5.0  $\mu$ m length)

TYPE OF SAMPLE

Air

Soil

Bulk

Water

Wipe

Other

Dust/Microvac

FILTER TYPE/AREA ( $\mu$ m)

MCE/995

MCE/814

MCE/1017

Other

G.O. Area ( $\mu$ m<sup>2</sup>) 0.0

No. of G.O. to Analyze 093

## PREP

DIRECT PREP

INDIRECT PREP

Volume 200  $\mu$ l

Working Volume 200  $\mu$ l

Weight 200 mg

Ashed Area 200 %

Date 12-9-04

Prepared By W. H. H.

## ANALYSIS

Grid Address A 1940x

Screen Magnification 247x

Camera Constant 100kV

Accelerating Voltage 10 kV

Beam Current 10  $\mu$ A

Analyst W. H. H.

Date 12-9-04

H600A - Serial No. 542-36-01

H600B - Serial No. 542-05-06

H600C - Serial No. 542-24-03



Grid Opening	Structure Number	Structure	Width	Length	Thickness	SAED Observation	Na	Mg	Si	Ca	Fe	Id
<u>200</u>	<u>1</u>	<u>1</u>				<u>Chrysotile</u>						
						<u>Amphibole</u>						
						<u>Amibious</u>						
						<u>Non Asbestos</u>						
						<u>No Pattern</u>						

Comments

16 Lines

OBSERVATIONS:

Clean

Debris:  Very Light

Gypsum:  Very Light

Condition of the Grid:  Good

Light

Light

Scrappy

Moderate

Moderate

Undissolved Filter

Heavy

Heavy

Folded

Very Heavy

Very Heavy



86-433

86-434

# TEM ANALYSIS

EMS Lab No. 2762  
 Client VAGLALS  
 Sample No. SK041109

RECEIVING

## ANALYSIS

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 50400 H600B - Serial No. 542-05-06   
 Camera Constant 27 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current FD  $\mu$ A

Analyst KOCK Date 12-9-84

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis				Comments						
			Width	Length	Thickness	Chrysole	Amphibole	Anliguous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe	Id			
H3 ASD																				
H4 ASD																				
H5 1 F			8	216																EDS #1
H5 2 AB			130	250																EDS #2

16 Lines

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

Moderate   
 Moderate   
 Undissolved Filter   
 Heavy   
 Heavy   
 Folded   
 Very Heavy   
 Very Heavy

2024-98

9 Dec-2004 13:30:36

97621-104B #2, LK

Vert= 200 counts Disp= 1

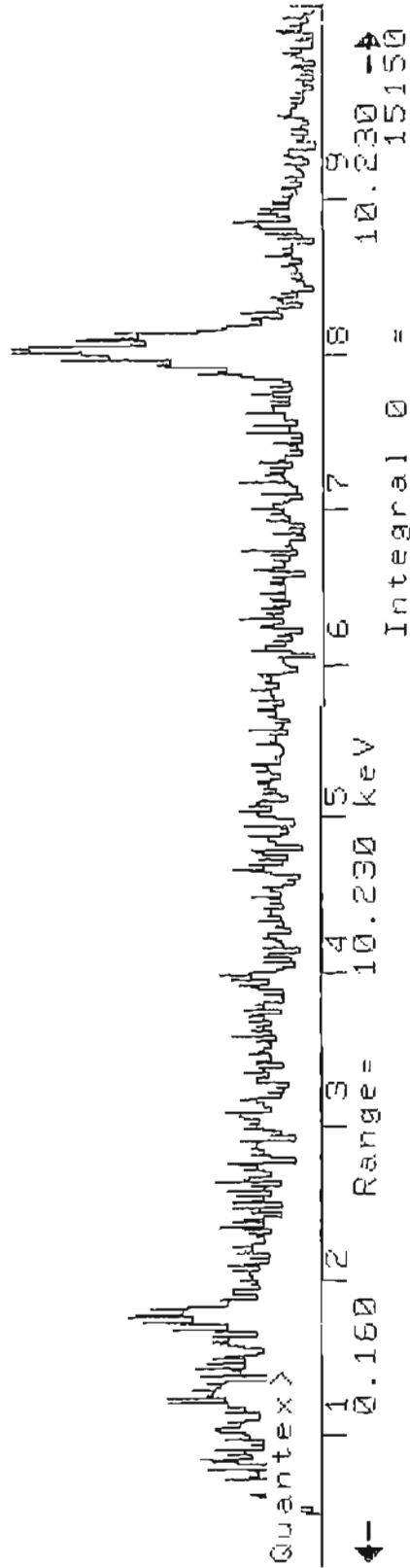
Energy Counts X-Ray Lines

Preset= Off

Elapsed= 41 secs

1.25 122. Mg K $\alpha_1$ , Mg K $\alpha_2$ , Mg K $\beta_1$ , As L $\alpha_1$ , As L $\alpha_2$

1.77 210. Si K $\alpha_1$ , Si K $\alpha_2$ , W M $\alpha_1$ , W M $\alpha_2$



86-436

9-Dec-2004 13:32:20

97621-104E, #2, LK                      Preset= Off  
Vert=        200 counts    Disp= 1                      Elapsed=        61 secs  
Energy    Counts    X-Ray Lines

1.26       412.    Mg K , Mg K , Mg K , As L , As L

1.77       794.    Si K , Si K , W M , W M

Quantex>  
0.160       Range=    10.230 keV                      10.230  
Integral 0 =                      21933

86-437



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO. 619	3. REGION NO. 22		
<b>4. EMPLOYEE INFORMATION</b>					
b. NAME OF EMPLOYEE N/A		SSN N/A	JOB TITLE		
c. ADDRESS (Street, City, State & Zip Code) N/A					
d. PERSONAL PROTECTIVE EQUIPMENT USED		e. MANUFACTURER N/A		f. APPROVAL No. (for Respirator)	
g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space is Needed Use Reverse). <b>Date: 12-08-04</b> <b>Project: Demolition and TSI Removal from South East Hall</b> <b>Contractor: Unlimited Engineering, Inc</b> <b>Location: Bldg. 304, 1<sup>st</sup> Floor, South East Hall</b>					
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	
<b>5. SAMPLING INFORMATION</b>					
(Fill in Sample No.)		SAMPLE 1104	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA		Clearance			
b. SAMPLE SUBMISSION NO.		SX041104			
c. TIME ON		0735			
d. TIME OFF		0935			
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			
<b>6. RESULTS (For Laboratory Use)</b>					
P = PPM    M = mg/m3    F = Fibers    C = Calling    T = Time Weighted Average			a. PERCENTAGE		
			b. TYPE		
	S/CC	F/CC	F/CC	Date	
Asbestos (TEM)	0.010			12-08-04	
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					
a. 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 12-08-04	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI- BRATION DATE 12-08-04	10d. FLOW RATE CALCULATIONS 10 liter / min		
11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97 - 2293		DATE 12-08-04		USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.	

86-439

Date: 12-08-04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates : 12-08-04

Location : Bldg. 304, 1<sup>st</sup> Floor , Demo , SE HALL

Abatement Company: Unlimited Environmental Phone Number:                                 

Abatement Supervisor: Felipe Barajas

Type of ACM : TSI Pipe Insulation

Quantity of ACM : 90 LF

Abatement Type & Method(s): Glove Bag / Wet / Peel

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: Yes X No
- C. Competent Person Outside of Work Area: Yes X No
- D. Asbestos Worksite Log: Yes X No

II. Air Monitoring:

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

D. VAMC - IH Monitoring:

- 1. Personal (VA): Yes        No   X
- 2. Pre-Tests:
- 3. Perimeter:

Worker's Name/SS #:

- 4. Inside Work Area:

86-439

5. Clearance: SX041104

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: 1 Shower: Yes     No X

D. If Containment in Use, are Critical Openings Properly Sealed: 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: -----

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. 304, Floor 1st South East 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 12/08/04 are as follows:

Bldg. <u>304</u>	Floor: <u>1st</u>	Room: <u>SE HALL</u>	<u>0.010</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 Kelly, SST 97-2293

86-440

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 97621  
Client VAGCHS Date Received 12-9-04 Verbal Results  
Reference No. B304 Date Analyzed 12-9-04 FAX Results 12-9-04

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) 95% CONFIDENCE LEVELS  
Lower Limit Upper Limit

Sample Identification Volume (L) Structures/mm<sup>2</sup> Structures/cc

SX041104 1200 31 0.010 0.005

86-441

✓ "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)

*Handwritten signature/initials*

# 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

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

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

**Date: 12/16/04**  
**Project: Penetration Mastic Removal**  
**Contractor: Unlimited Environmental, Inc.**  
**Location: Bldg. 304, Room : Roof**

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		
a. SAMPLE TYPE/MEDIA	During / PCM	During / PCM		
b. SAMPLE SUBMISSION NO.	SX041024	SX041025		
c. TIME ON	11:00	1400		
d. TIME OFF	13:00	1600		
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
Unit	F/CC	F/CC	
Asbestos ( PCM )	0.0033	0.0047	

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) CALIBRATION DATE <b>12/16/04</b>	10b. FLOW RATE CALCULATIONS 10 liter/minute	10c. (POST) CALIBRATION DATE <b>12/16/04</b>	10d. FLOW RATE CALCULATIONS 10 liter/minute
--	--	---	--

11. NAME & JOB TITLE (Person Performing Sampling) <b>Kevin Kelly, SST 97-2293</b>	DATE <b>12/16/04</b>	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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86-442

Date: 12/16/04  
From: Industrial Hygiene (130B)  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin Kelly

Abatement Dates: 12/16/04

Location: Bldg. 304, Roof

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

Abatement Supervisor: Ricardo Hernandez

Type of ACM: Penetration Mastic

Quantity of ACM: 75 Sq-Ft

Abatement Type & Method(s): Wet / Peel & Dry / Scrape up 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  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 - JH Monitoring:

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

2. Pre-Tests:

3. Perimeter: SX041124, SX041125

86-443

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 \_\_\_\_\_ 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: \_\_\_\_\_ 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. 304, Roof 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 12/16/04 are as follows:

Bldg <u>304</u>	Floor: _____	Room: _____	_____ Structures/mm <sup>2</sup>
	Floor: _____	Room: _____	_____ Structures/mm <sup>2</sup>
	Floor: _____	Room: <u>Roof</u>	<u>&lt;0.01</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

86-444

# 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: 97797  
Client: VAGLAHS  
Address: 11301 WILSHIRE BLVD  
LOS ANGELES, CA 90073

Date Received: 12-20-04 Filter Type: MCE Filter Area: 385  
Date Analysed: 12-21-04 Mag: 400x Field Area: 0.00785MM  
Date Sampled: 12-16-04 Project #: B304, ROOF Filter Size: 25MM  
Attention: B SPVEY File Name: 97797VAGLAHS.AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX041124	100	8	10	3924	1200.0	0.0033	0.0022	0.0257	0.0004
SX041125	100	11.5	15	5640	1200.0	0.0047	0.0022	0.0257	0.0004

86-445

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

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

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**



86-486

**SUBMITTAL FORM/Laboratory Services**

97797

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
 TIME / DATE 12.16.04

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

DATE OF SHIPMENT  CARRIER   
 CLIENT P.O. NO.   
 CLIENT JOB/PROJECT ID NO(S) B304, Roof (cont.)

TELEPHONE   
 CONTACT BEN SPIVEY

PACKAGE SHIPPED FROM

RESULTS REQUESTED VIA VERBAL  FAX   
 CLIENT FAX NO.

DATE/TIME OF SAMPLE COLLECTION 12.16.04

SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A

NO. OF SAMPLES SENT 2 SAMPLER'S NAME [Signature] SIGNATURE

PRINTED ANWAK

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

97797-4	SX041124	DOWNING ROOF PENE. Repair	PCM	1200L
↓ -5	SX041125	" " "	"	"

(SF 5/00)

97797

Laboratory No. 97797 Received By [Signature] Time 9:35

Date of Package Delivery 12-20-04 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal

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

Date of Acceptance into Sample Bank 12-20-04 Misc. Info. [Signature]

Disposition of Samples EMS LAB

FOR EMILY

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION <b>VA-GLAHS</b>		2. STATION NO. 619	3. REGION NO. 22	
4. EMPLOYEE INFORMATION				
NAME OF EMPLOYEE N/A		SSN N/A	JOB TITLE	
c. ADDRESS (Street, City, State & Zip Code) N/A				
d. PERSONAL PROTECTIVE EQUIPMENT USED		e. MANUFACTURER N/A	f. APPROVAL No. (for Respirator)	
g. DESCRIPTION OF JOB OPERATION, WORK LOCATION, ENGR. CONTROLS AVAILABLE, WORK PROCEDURES, ADMINISTRATIVE CONTROLS, AND EQUIPMENT BEING USED. (If Additional Space Is Needed Use Reverse).				
<p><b>Date:</b> 12-16-04  <b>Project:</b> TSI Removal from Pipe Elbows &amp; fittings.  <b>Contractor:</b> <u>Unlimited Environmental, Inc</u>  <b>Location:</b> Bldg. 256, Room 13</p>				
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				
<i>(Fill in Sample No.)</i>	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE
a. SAMPLE TYPE/MEDIA	During Work	During Work	During Work	
b. SAMPLE SUBMISSION NO.	SX041126	SX041127	SX041128	
c. TIME ON	08:30	11:00	13:30	
d. TIME OFF	10:30	13:00	15:30	
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	
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	
	FICC	FICC	FICC	
Asbestos (PCM)	0.168	0.0031	0.0112	
7. LABORATORY ANALYSIS (Method Used to Analyze the Samples and Analyst's Comments) Phase Contrast Microscopy (PCM)				
8. IH COMMENTS TO LABORATORY PCM				
a. 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 12-16-04	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI- BRATION DATE 12-16-04	10d. FLOW RATE CALCULATIONS 10 liter / min	
NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293		DATE 12-16-04		USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86-448

# AIR SAMPLING DATA

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

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

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

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

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

**Date:** 12-17-04  
**Project:** TSI Removal from Pipe Elbows & fittings.  
**Contractor:** Unlimited Environmental, Inc  
**Location:** Bldg. 256, Room 13

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	SAMPLE	SAMPLE	
a. SAMPLE TYPE/MEDIA	During Work				
b. SAMPLE SUBMISSION NO.	SX041129				
c. TIME ON	09:10				
d. TIME OFF	11:10				
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
Asbestos (TEM)	S/mm <sup>2</sup>	N.D.			

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

8. IH COMMENTS TO LABORATORY  
TEM

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

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 12-17-04	10b. FLOW RATE CALCULATIONS 10 liter / min	10c. (POST) CALI- BRATION DATE 12-17-04	10d. FLOW RATE CALCULATIONS 10 liter / min
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97-2293	DATE 12-17-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	---------------	---

86-449



5. Clearance : SX041129

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 X No \_\_\_

D. If Containment in Use, are Critical Openings Properly Sealed: 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 : \_\_\_\_\_

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 Gr. Room 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 12/17/04 are as follows:

Bldg. <u>256</u>	Floor: <u>Gr</u>	Room: <u>13</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 Kelly , SST 97-2293

86-451

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

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

**Report No:** 97795  
**Client:** VAGLARS  
**Address:** 11901 WILSHIRE BLVD  
 LOS ANGELES, CA 90073  
**Date Received:** 12-20-04  
**Date Analyzed:** 12-21-04  
**Date Sampled:** 12-16-04  
**Attention:** B SPIVEY  
**Filter Type:** MCE  
**Mag:** 400x  
**Project #:** R256, R13  
**File Name:** 97795VAGLARS.AIR  
**Filter Area:** 385  
**Field Area:** 0.01785MM  
**Filter Size:** 25MM

Sample I.D.	Fields Counted	Fibers Counted	F/ Sq.um	Fiber/Filter	Vol.(Lit.)	Fibers/CC	LOD	LOQ	ANL SENT.
SX041126	25	103	525	202064	1200.0	0.168	0.0022	0.0257	0.0004
SX041127	100	7.5	10	3678	1200.0	0.0031	0.0022	0.0257	0.0004
SX041128	100	27.5	35	13487	1200.0	0.0112	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

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

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

06-462

DATE: December 21, 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-C40433  
B256, R13  
REPORT NO: 97794  
DATE COLLECTED: 12/17/04 by K. Kelly  
DATE RECEIVED: 12/20/04 at 0930  
DATE ANALYZED: 12/20/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX041129

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.

86-453



# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 97794  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 12/20/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 12/20/04 ▶ 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 041129	1200	-	N.D.	N.D.	0	0.02

22-554

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 \_\_\_\_\_

# SUBMITTAL FORM *Laboratory Services*

# 97795

PAGE 1 OF 1

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

RELINQUISHED BY KELLY  
TIME / DATE 12.16.04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_

TELEPHONE BEN SPIVRY  
CONTACT \_\_\_\_\_

CLIENT JOB/PROJECT ID NO(S) B256, R13  
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 12.16.04  
SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
NO. OF SAMPLES SENT 3 SAMPLER'S NAME [Signature] LK KELLY  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
SIGNATURE PRINTED

(FOR EMS ONLY)

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	DATE
<u>97795-6</u>	<u>SX041126</u>	<u>DURING REMOVAL/TEST</u>		<u>PCM</u>	<u>12006</u>
<u>7</u>	<u>SX041127</u>	<u>" " "</u>		<u>↓</u>	<u>↓</u>
<u>8</u>	<u>SX041128</u>	<u>" " "</u>		<u>↓</u>	<u>↓</u>
<del>_____</del>					

FOR E ONLY (SF 5/00)

Laboratory No. 97795 Received By [Signature] Time 10:00  
Date of Package Delivery 12.20.04 Shipping and 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 3 Chain-of-Custody Signature \_\_\_\_\_  
Date of Acceptance into Sample Bank 12.20.04 Misc. Info. [Signature]  
Disposition of Samples EDG WPM

96-1155

# SUBMITTAL FORM *Laboratory Services*

# 97794

PAGE 1 OF 1

TURNAROUND TIME: STD  48 HR.  24 HR.   
< 8 HR.  / KND  OTHER:

RELINQUISHED BY KEY  
TIME / DATE 12-17-04

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

DATE OF SHIPMENT: \_\_\_\_\_ 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 12-17-04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 1 SAMPLER'S NAME \_\_\_\_\_

SIGNATURE [Signature] PRINTED KEY

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

(FOR EMS ONLY)

EMS Sample No.

CLIENT SAMPLE NO.

DESCRIPTION/LOCATION ANALYSIS

VOLUME  
1200L

97794-29

5X041129

CLEARANCE / W/A

TEM

1200L

*Please provide result by 12 noon next day*

(SF 5/00)

Laboratory No. 97794

Received By [Signature] Time 9:30

Date of Package Delivered 12-20-04

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

Date of Acceptance into Sample Bank 12-20-04 Misc. Info. \_\_\_\_\_

Disposition of Samples [Signature]

6-456

FOR EMS ONLY

TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97794  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041129  
 RECEIVED: 12/20/04 ANALYZED: 12/20/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0651  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

COMMENTS: MODERATE DEBRIS

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

86-457

86-458

# TEM ASBESTOS ANALYSIS

EMS Lab No. 97794  
 Client VA - LUBAH  
 Sample No. CX041129

**METHOD OF ANALYSIS**  
 EPA Yamato Level I   
 Level II   
 Level III   
 AHERA   
 ASPECT RATIO 31  50

**LENGTHS**  
 All Sizes (EPA)   
 (µm) : 2-0.5   
 (µm) : > 5.0   
 (µm) : > 10.0   
 PCIM Range\*  
 \*10.25 µm width, >5.0 µm length

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

**FILTER TYPE/AREA (mm²)**  
 MCE/885   
 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 200 liters  
 Working Volume 20 ml  
 Weight 20 grams  
 Ashed Area 10 %

Date 12-20-07  
 Prepared By R.F.

G.O. Area (mm²) 0.0007  
 No. of G.O. to Analyze 7

## ANALYSIS

Grid Address A  
 Screen Magnification 900x  
 Camera Constant 29.8  
 Accelerating Voltage 100KV  
 Beam Current 10 µA

**A**

Analyst body Date 12-20-07

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation			EDS Analysis					Comments			
			Width	Length	Thickness	Chrysotile	Amphibole	Non Asbestos	Na	Mg	Si	Ca	Fe		In		
<u>C44</u>	<u>N/A</u>	<u>N/A</u>															
<u>C33</u>	<u>N/A</u>	<u>N/A</u>															
<u>U23</u>	<u>N/A</u>	<u>N/A</u>															

16 Lines

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

Very Heavy   
 Heavy   
 Moderately   
 Moderate   
 Undissolved Filter   
 Folded

Very Heavy   
 Heavy   
 Moderately   
 Moderate   
 Undissolved Filter   
 Folded

Very Light   
 Very Light   
 Good   
 Scrapy

Light   
 Light   
 Scrapy

# TEM ASPBESTOS ANALYSIS

EMS Lab No. 977794  
 Client VLA LLAH  
 Sample No. SX041129

RECEIVING

Page    of     
 MIC   

## ANALYSIS

Grid Address B H600A - Serial No. 542-36-01   
 Screen Magnification 2500x H600B - Serial No. 542-05-06   
 Current Constant 28.4 H600C - Serial No. 542-24-03   
 Accelerating Voltage 100 KV  
 Beam Current 10 nA

Analyst SA Date 12/20/04

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				

ESL NSD  
ESL NSD  
ESL NSD  
ESL NSD

095-28

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

Department of Veterans Affairs

1. FACILITY IDENTIFICATION VA-GLAHS (130b)	2. STATION NO.	3. REGION NO. 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:** 12-18-04  
**Project:** Floor Tile & Mastic Removal  
**Contractor:** Unlimited Environmental, Inc  
**Location:** Bldg. 115, 1<sup>st</sup> Floor, North Corridor

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 1130	SAMPLE 1131	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	Pre- Work /PCM	During Work / PCM			
b. SAMPLE SUBMISSION NO.	SX041130	SX041131			
c. TIME ON	07:20	12:15			
d. TIME OFF	09:20	14:15			
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
Unit	F/CC	F/CC		
Asbestos (PCM)	0.014	0.0053		

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

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 12-18-04	10b. FLOW RATE CALCULATIONS 10 liter/min	10c. (POST) CALI- BRATION DATE 12-18-04	10d. FLOW RATE CALCULATIONS 10 liter/min
NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97- 2293		DATE 12-18-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.

86.461



# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION VA-GLAHS (130b)	2. STATION NO.	3. REGION NO. 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:** 12-19-04  
**Project:** ACM – Floor Tile & Mastic Removal  
**Contractor:**  
**Location:** Bldg. 115, 1<sup>st</sup> Floor, North Corridor

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 1132	SAMPLE 1133	SAMPLE 1134	SAMPLE 1135	SAMPLE 1136
a. SAMPLE TYPE/MEDIA	During Work /PCM	During Work /PCM	During Work /PCM	Final Clean / PCM	Clearance / TEM
b. SAMPLE SUBMISSION NO.	SX041132	SX041133	SX041134	SX041135	SX041136
c. TIME ON	0645	0850	1055	1300	1600
d. TIME OFF	0845	1050	1255	1500	1740
e. TOTAL TIME (in minutes)	120	120	120	120	100
f. FLOW RATE <input checked="" type="checkbox"/> l/min <input type="checkbox"/> m <sup>3</sup> /min	10	10	10	10	12
g. VOLUME (in liters)	1200	1200	1200	1200	1200

### 6. RESULTS (For Laboratory Use)

P = PPM M = mg/m <sup>3</sup> F = Fibers C = Counting T = Time Weighted Average					a. PERCENTAGE
					b. TYPE
Unit	F/CC	F/CC	F/CC	F/CC	S/mm <sup>2</sup>
Asbestos (PCM)	0.0037	0.0039	0.0063	0.0012	
Asbestos (TEM)					N.D.

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

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI-BRATION DATE 12-19-04	10b. FLOW RATE CALCULATIONS 10 liter/min	10c. (POST) CALI-BRATION DATE 12-19-04	10d. FLOW RATE CALCULATIONS 10 liter/min
--	---	---	---

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly, SST 97- 2293	DATE 12-19-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
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86462

Date: 12/18/04 & 12/19/04

From: VA-GLAHS

Subj: ASBESTOS ABATEMENT REPORT

Reporting [H/CSST/CAC: Kevin J. Kelly

Abatement Dates: 12.18.04 & 12.19.04

Location: Bldg. 115, 1st Floor, North Corridor

Abatement Company: Unlimited Environmental Phone Number: \_\_\_\_\_

Abatement Supervisor: Mauricio Fajardo

Type of ACM: Floor & Mastic with leveling soft concrete

Quantity of ACM: 700 sq-ft

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 \_\_\_\_\_

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: SX041130

3. Perimeter: SX041131, SX041132, SX041133, SX041134, SX041135

82-463

- 4. Inside Work Area:
- 5. Clearance: SX041136
- 6. VAIH Laboratory: EMS Laboratories, Pasadena

III. Contractor's PPE:

- A. Respirator Type & Manufacturer: ½ 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      No X Properly Taped to Pipes: Yes      No
- B. Containment: Yes X No      Thickness of Polyethylene: 6mil
- C. Proper Decon: Yes X No      No. Chambers:      Shower: Yes      No
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes      No
- E.
- 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--
- 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 1st North Corridor indicated all planned asbestos containing materials were removed were 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 12/19/04 & 12/19/04 as follows:  

Bldg. <u>115</u>	Floor: <u>1</u>	Room: <u>North 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 Kelly, CSST 97-2293

*86-464*

# NIOSH FIBER COUNT (METHUEN ROD 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:** 97781      **Date Received:** 12-20-04      **Filter Type:** MCE      **Filter Area:** 385  
**Client:** VAGLAHS      **Date Analyzed:** 12-20-04      **Mag:** 400x      **Field Area:** 0.00785MM<sup>2</sup>  
**Address:** 11301 WILSHIRE BLVD      **Date Sampled:** 12-18-04      **Project #:** B115, 1ST FL      **Filter Size:** 25MM  
 LOS ANGELES, CA 90073      **Attention:** B SPIVEY      **File Name:** 97781VAGLAHS-AIR

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol(Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX041130	100	35	45	17166	1200.0	0.014	0.0022	0.0257	0.0004
SX041131	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  
 I.D. 7795      CARL BERGMAN  
 I.D. 2033      JEFF WAN  
 I.D. 3276      S.AHMAD  
 B.M. Kolck, Laboratory Director      B.M. Kolck

Confidence Interval is based on NIOSH 7400 with a subjective coefficient of variability = 0.2  
 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**

86 14 62

# NIOSH FIBER COUNT (MELCOROD 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:** 97779.1  
**Client:** VAGLAHS  
**Address:** 11301 WILSHIRE BLYD  
LOS ANGELES, CA 90073

**Date Received:** 12-19-04  
**Date Analyzed:** 12-20-04  
**Date Sampled:** 12-19-04  
**Filter Type:** MCE  
**Mag:** 400X  
**Project #:** B115.1ST FLOOR  
**File Name:** 97779.1VAGLABS.AIR  
**Filter Area:** 385  
**Field Area:** 0.00785MM  
**Filter Size:** 25MM

Sample I.D.	Fields Counted	Fibers Counted	F/Sq.mm	Fiber/Filter	Vol (Lit.)	Fibers/CC	LOD	LOQ	ANL.SENT.
SX041132	100	9	.11	4414	1200.0	0.0037	0.0022	0.0257	0.0004
SX041133	100	9.5	12	4659	1200.0	0.0039	0.0022	0.0257	0.0004
SX041134	100	15.5	20	7602	1200.0	0.0063	0.0022	0.0257	0.0004
SX041135	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

AIIHA 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 S1 is taken as 0.45 Interlaboratory S2 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**

*88-466*

**SUBMITTAL FORM** *Laboratory Services*

**97779**

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

RELINQUISHED BY KELLY  
 TIME / DATE 12.19.04

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

DATE OF SHIPMENT 12.19 CARRIER KELLY  
 CLIENT P.O. NO. \_\_\_\_\_  
 CLIENT JOB/PROJECT ID NO(S). B115, 1<sup>ST</sup> FLOOR NORTH CORRIDOR  
 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 12.19.04  
 SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
 NO. OF SAMPLES SENT 5 SAMPLER'S NAME [Signature] 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
<u>97779 1-2</u>	<u>SX041132</u>	<u>DURING / OWA</u>		<u>PCM</u>	<u>1200L</u>
<u>3</u>	<u>SX041133</u>	<u>DURING / OWA</u>		<u>↓</u>	<u>↓</u>
<u>4</u>	<u>SX041134</u>	<u>DURING / AT DECON</u>		<u>↓</u>	<u>↓</u>
<u>5</u>	<u>SX041135</u>	<u>FINAL CLEAN / OWA</u>		<u>↓</u>	<u>↓</u>
<u>7779-1136</u>	<u>SX041136</u>	<u>CLEARANCE / IWA</u>		<u>TEM</u>	<u>↓</u>

*Pls. provide analysis for clean area. Temp delivery. Immediately upon standard. Remaining samples standard.*

(SF 5/00)

FOR EMLY

Laboratory No. 97779 Received By S Ahmed Time 6:35 PM

Date of Package Delivery 12-19-04 Shipping Bill Retained: YES  NONE

Condition of Package on Receipt OK Condition of Custody Seal NA  
 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 SA

Date of Acceptance into Sample Bank 12-19-04 Misc. Info. 86467

Disposition of Samples EMS

DATE: December 21, 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-C40433  
B115, 1st Floor North Corridor  
REPORT NO: 97779  
DATE COLLECTED: 12/19/04 by K. Kelly  
DATE RECEIVED: 12/19/04 at 1835  
DATE ANALYZED: 12/19/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY  
The sample was identified as: SX041136

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.

86-468

697-28

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

▶ EMS Laboratory No. 97779  
 ▶ Client V.A.G.L.A.H.S.  
 ▶ Location \_\_\_\_\_  
 ▶ Date Received 12/19/04 ▶ Verbal Results \_\_\_\_\_  
 ▶ Date Analyzed 12/19/04 ▶ Fax Results \_\_\_\_\_

<input checked="" type="checkbox"/> DIRECT PREP <input type="checkbox"/> INDIRECT PREP		ASPECT RATIO 3:1 <input type="checkbox"/> 5:1 <input checked="" type="checkbox"/>	STRUCTURE SIZE All Sizes (BPA) <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>	95% CONFIDENCE LEVELS	
				Analytical Sensitivity	Upper Limit
SX 041136	1200	-	N.D.	0.005	0
			N.D.	0.005	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 \_\_\_\_\_



**SUBMITTAL FORM** / Laboratory Services

97781

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

RELINQUISHED BY Kelly  
TIME / DATE 12.18.04

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

DATE OF SHIPMENT \_\_\_\_\_ CARRIER \_\_\_\_\_  
CLIENT P.O. NO. \_\_\_\_\_  
CLIENT JOB/PROJECT ID NO(S) \_\_\_\_\_  
8115, 1ST FL NORTH  
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 12.18.04  
SAMPLE PRESERVATIVES N/A HOLDING TIMES N/A  
NO. OF SAMPLES SENT 2 SAMPLER'S NAME [Signature] / K KELLY  
TYPE:  WATER  WASTE WATER  SOIL  FILTER  SORBENT TUBE  IMPINGER  OTHER \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ PRINTED \_\_\_\_\_

(FOR EMS ONLY)

VOLUME  
TEMP DEGREE  
RELATIVE HUMIDITY

EMS Sample No.	CLIENT SAMPLE NO.	DESCRIPTION	LOCATION	ANALYSIS	VOLUME
97781-30	SK041130	PRESERVATION	/ IWA	PCM	1200 L
31	SK041131	DRAINAGE	/ IWA	PCM	1200 L
X					

(SF 5/00)

Laboratory No. 97781  
Date of Package Delivery 12-20-04  
Received By [Signature] Time 7:30  
Shipping Bill Retained: YES  NONE

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

No. of Samples 2 Chain-of-Custody Signature [Signature]  
Date of Acceptance into Sample Bank 12-20-04 Misc. Info. [Signature]  
Disposition of Samples [Signature]

FOR EPL

# AIR SAMPLING DATA

1. FACILITY IDENTIFICATION VA-GLAHS (130b)	2. STATION NO.	3. REGION NO. 22
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### 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:** 12-21-04  
**Project:** Floor Tile & Mastic Removal  
**Contractor:** Unlimited Environmental, Inc  
**Location:** Bldg. 115 , 1<sup>st</sup> Floor , North Corridor ( Door Way )

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
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### 6. SAMPLING INFORMATION

(Fill in Sample No.)	SAMPLE 1137	SAMPLE	SAMPLE	SAMPLE	SAMPLE
a. SAMPLE TYPE/MEDIA	During Work /TEM				
b. SAMPLE SUBMISSION NO.	SX041137				
c. TIME ON	09:15				
d. TIME OFF	11:15				
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 Electrons 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	PAT NUMBER

10. EQUIPMENT IDENTIFICATION (Manufacture & Serial No.)

10a. (PRE) CALI- BRATION DATE 12-21-04	10b. FLOW RATE CALCULATIONS 10 liter/min	10c. (POST) CALI- BRATION DATE 12-21-04	10d. FLOW RATE CALCULATIONS 10 liter/min
---	---	--	---

11. NAME & JOB TITLE (Person Performing Sampling) Kevin Kelly , SST 97- 2293	DATE 12-21-04	USE REVERSE FOR ADDITIONAL NOTES WHEN USING REVERSE REFER TO ITEM NO.
---	------------------	---

86-471

Date: 12/21/04  
From: VA-GLAHS  
Subj: ASBESTOS ABATEMENT REPORT

Reporting IH/CSST/CAC: Kevin J. Kelly

Abatement Dates: 12.21.04

Location: Bldg. 115, 1st Floor, North Corridor (Extras)

Abatement Company: Unlimited Environmental Phone Number: [REDACTED]

Abatement Supervisor: Mauricio Fajardo

Type of ACM: Floor Tile & Mastic  
Quantity of ACM: 700 sq-ft

Abatement Type & Method(s): Wet / Scrape -up 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  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:

86-472

- 4. Inside Work Area:
- 5. Clearance: SX041137
- 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  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: (Partial) Yes  No  Thickness of Polyethylene: 6mil
- C. Proper Decon: Yes  No  No. Chambers:  Shower: Yes  No
- D. If Containment in Use, are Critical Openings Properly Sealed: Yes  No
- E. Adeq. Neg. Pressure Diff. in Containment Yes  No
- F. Amended Water Used: Yes  No  How Applied: Hudson Sprayer
- G. External AFD Filters Replaced Daily: Yes  No
- H. Wet Wiping and/or HEPA Vacuuming Done after ACM Abated: Yes  No
- I. Work Area Insp./Found to be Free of ACM Dust or Debris: Yes  No
- J. Encapsulation: Yes  No  Name & Type: Foster
- K. 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. 115, Floor 1st North Corridor ( Door Way ) indicated all planned asbestos containing materials were removed were 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 12/21/04 as follows:

Bldg. <u>115</u>	Floor: <u>1</u>	Room: <u>North Corridor ( Door Way )</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 Kelly, CSST 97-2293

86-473

DATE: January 3, 2005  
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-C40433  
B115, 1st Fl. North Corridor/Extras  
REPORT NO: 97916  
DATE COLLECTED: 12/21/04 by K. Kelly  
DATE RECEIVED: 12/30/04 at 0945  
DATE ANALYZED: 12/30/04  
ACCREDITED: National Institute of Standards and Technology through NVLAP (101218)  
SUBJECT: ANALYSIS OF AIR SAMPLE BY TRANSMISSION ELECTRON MICROSCOPY

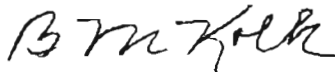
The sample was identified as: SX041137

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.

86-474

# RESULTS OF AIR FILTER ANALYSIS by TEM for Asbestos Structures

EMS Laboratory No. 97916      Date Received 12/30/04      Verbal Results \_\_\_\_\_  
 Client V.A.G.L.A.R.S.      Date Analyzed 12/30/04      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	Lower Limit
SX 041137	1200	-	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

86-476

**SUBMITTAL FORM** / Laboratory Services

97916

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

RELINQUISHED BY Kelly  
 TIME / DATE 12.21.04

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

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

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

PACKAGE SHIPPED FROM B115, 1<sup>st</sup> FL. NORTH CAMPUS / JISTUS

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 12.21.04

SAMPLE PRESERVATIVES N/A

HOLDING TIMES N/A

NO. OF SAMPLES SENT 1 SAMPLER'S NAME \_\_\_\_\_

SIGNATURE [Signature] PRINTED KKELLY

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

97916-37

SX041137

CLEARANCE / GEN AREA  
(EXTRAS) IN-PROGRESS

TEM

1200L

15 mins

Laboratory No. 97916

Received By [Signature] Time 9:45

Date of Package Delivery 12-30-04

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

Date of Acceptance Into Sample Bank 12-30-04 Misc. Info 86-477

Disposition of Samples EMU 10/04

(SF 5/00)

FOR EM VLY



TEM ASBESTOS AIR REPORT

CLIENT: V.A.G.L.A.H.S.  
 EMS NO: 97916  
 FILTER TYPE AND AREA (mm<sup>2</sup>): MCE 385  
 VOLUME OF AIR: 1200 L  
 METHOD OF ANALYSIS: AHERA

SAMPLE DESCRIPTION: SX 041137  
 RECEIVED: 12/30/04 ANALYZED: 12/30/04  
 AREA OF SAMPLE ANALYZED (mm<sup>2</sup>): 0.0851  
 GRID OPENING AREA (mm<sup>2</sup>): 0.0093  
 SCREEN MAGNIFICATION: 19,300X

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

COMMENTS: LIGHT TO MODERATE DEBRIS

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

96-478

# TEM ANALYSIS

EMS Lab No. 97916  
 Client VA CALATS  
 Sample No. SX04137

## RECEIVING

METHOD OF ANALYSIS  
 EPA Yentle 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\*  
 (µm) : 0.25 to 10.0

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

## ANALYSIS

DIRECT PREP   
 INDIRECT PREP   
 Volume 1200 mm<sup>3</sup>  
 Working Volume \_\_\_\_\_ ml  
 Weight \_\_\_\_\_ grams  
 Ashed Area \_\_\_\_\_ %

Date 12-30-04  
 Prepared By SA

G.O. Area (mm<sup>2</sup>) 0.0093  
 No. of G.O. to Analyze 7

Page 1 of 1

### MICROSCOPE

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

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

**A**  
 12/30/04  
 SA

Grid Opening	Structure Number	Structure	Dimension (µm)			SAED Observation				EDS Analysis				Comments			
			Width	Length	Thickness	Chrysotile	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si		Ca	Fe	Id
<u>H514 NSD</u>																	
<u>G143 NSD</u>																	
<u>G151 NSD</u>																	
<u>G36 NSD</u>																	

16 Lines

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

Very Heavy   
 Very Heavy   
 Heavy   
 Heavy   
 Folded   
 Moderate   
 Moderate   
 Undissolved Filter

Light   
 Light   
 Scrappy

Very Light   
 Very Light   
 Good

# TEM ASSISTED ANALYSIS

EMS Lab No. 97916  
Client VECALAH-S  
Sample No. SX04137

MICROSCOPE

Grid Address H600A - Serial No. 542-36-01   
Screen Magnification 10000B - Serial No. 542-05-06   
Camera Constant H600C - Serial No. 542-24-03   
Accelerating Voltage 100KV  
Beam Current 10 uA

Analyst S.A. Date 12/30/01

## ANALYSIS

Grid Opening	Structure Number	Structure	Dimension (mm)			SAED Observation				EDS Analysis					Comments	
			Width	Length	Thickness	Chrysolite	Amphibole	Ambiguous	Non Asbestos	No Pattern	Na	Mg	Si	Ca		Fe
<u>U22</u>	<u>N50</u>	<u>N50</u>														
<u>U36</u>	<u>N50</u>	<u>N50</u>														
<u>U51</u>	<u>N50</u>	<u>N50</u>														

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

16 Lines

## RECEIVING