

Exhibit 5171.0 - Kaylo Pipe Covering Stimulation Study

This exhibit is demonstrative evidence please see either Debbie Stewart or Karen Lemon for copies of the transcript and videotape.

RICHARD F. SCRUGGS, P.A.
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734 DELMAS AVENUE
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RICHARD F. SCRUGGS
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601-762-6068
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* SAMUEL M. MILLETTE, JR.
M. JULIET LAWSON
W. STEVE BOZEMAN
HAYDEN S. DENT

June 4, 1991

Ronald L. Motley, Esquire
Ness, Motley, Loadholt, Richardson
& Poole
151 Meetings Street, Suite 600
Post Office Box 1137
Charleston, South Carolina 29402

FEDERAL EXPRESS

Re: Abrams - Asbestos Personal Injury Cases

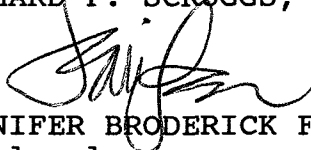
Dear Ron:

Per Dick's request, please find enclosed copies of the Kaylo Air Monitoring results, photographs, etc. on the experiment that was performed in Pascagoula.

Should you have any questions or need further assistance please do not hesitate to contact me.

Sincerely yours,

RICHARD F. SCRUGGS, P.A.


JENNIFER BRODERICK FLOORE,
Paralegal

JBF:sel

Enclosure

NOTES ON SAMPLING DURING THE EXPERIMENT



On Thursday, May 16, 1991, Materials Analytical Services, Inc. (MAS) agreed to perform an experiment for the law firm of Richard F. Scruggs in Pascagoula, Mississippi.

The experiment was designed to see if asbestos fibers were released during the cutting/sawing of the material marked "Kaylo" (on the outer cardboard wrapping) and if released what the concentration would be.

The experiment took place in a vacated/sealed office belonging to the Scruggs law firm on Saturday, May 18, 1991 in Pascagoula, Mississippi. Alan Segrave of MAS performed air/dust sampling before, during and after the cutting of the asbestos containing product labelled "Kaylo". Protective clothing and respiratory protection were utilized for the experiment.

The experiment involved establishing ambient levels of asbestos in the air by taking air samples outside the contained area. These samples were taken at 10 liters/minute flow rate and were labelled 1, 2 and 3. Results of these three air samples analyzed by transmission electron microscopy (TEM) were negligible.

Air samples (4,5,6) were run inside the contained area, (while the material marked "Kaylo" was sealed in plastic) at 10 liters/minute flow rate. Again the samples were analyzed by TEM and the asbestos concentrations were negligible. Samples 1-6 represent levels of possible contaminants inside and outside the containment area before the "Kaylo" material was cut.

Samples 7, 8, and 9 (at 10 liters per minute flow rate) and 1P, 2P at (2 liters per minute flow rate) were taken as the "Kaylo" was removed from the bag and placed on the sawhorse. 1P and 2P represent personnel air samples taken on Alan Segrave and John, who is the person designated to cut the "Kaylo".

A series of cuts into the "Kaylo" were made using a hand saw, and clouds of material were liberated into the air. Other actions simulating what a worker might do during the cutting were performed such as brushing one's arm off, tapping the saw with the hand to clean it, etc.

After the last cut was made all physical activity in the area ceased while the sampling continued for approximately ten minutes. Samples 10, 11, 12 (at 10 liters/minute flow rate) and personnel samples 3P, 4P (at 2 liters/minute flow rate) were taken as the material was swept into piles and placed in plastic bags.

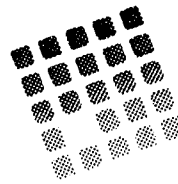
During the cutting and sweeping portions of the experiment significant asbestos concentrations were measured by TEM analyses.

In addition to the air samples taken, dust samples (1, 2, 3) were taken to measure dust that may have fallen into precleaned containers of a known area.

Dust sample 1 was voided due to the fact that during the sweeping of material a significant amount of material was swept into the dust container.

Dust sample 2 is representative of the material that was settling out of the air and after TEM analysis was performed, significant levels of asbestos were found to have settled into the tin.

Dust sample 3 represents a sealed tin taken to the project (inside the containment, etc.) and back to the lab. No asbestos structures were found in dust sample 3.



MATERIALS
ANALYTICAL
SERVICES

COPY

May 24, 1991

Mr. Richard Scruggs
Richard F. Scruggs Law Firm, PA
P.O. Drawer 1425
Pascagoula, MS 39568

Dear Mr. Scruggs:

Enclosed are the analyses of the air samples received at our facility on May 19, 1991. The samples were sent under your job/purchase order number: Kaylo Experiment, and were labelled:

1 OWA	6 IWA	11 IWA
2 OWA	7 IWA	12 IWA
3 OWA	8 IWA	
4 IWA	9 IWA	
5 IWA	10 IWA	

Please call our office at your convenience should you have any questions concerning the analyses of your samples.

Sincerely,

William E. Longo, Ph.D.
President

WEL:lac
Enc.
Ref: M6366

CLIENT NAME: Richard Scruggs Law Firm

CLIENT JOB NAME: Kaylo Experiment

MAS JOB: M6366

MAS
SAMPLE
NUMBER

SUMMARY OF AIR SAMPLE LOCATIONS

1	1, 5/18/91, Background, outside containment
2	2, 5/18/91, Background, outside containment
3	3, 5/18/91, Background, outside containment
4	4, 5/18/91, Inside containment, before cutting
5	5, 5/18/91, Inside containment, before cutting
6	6, 5/18/91, Inside containment, before cutting
7	7, 5/18/91, Inside containment, during cutting
8	8, 5/18/91, Inside containment, during cutting
9	9, 5/18/91, Inside containment, during cutting
10	10, 5/18/91, Inside containment, during sweeping/cleanup
11	11, 5/18/91, Inside containment, during sweeping/cleanup
12	12, 5/18/91, Inside containment, during sweeping/cleanup

Summary of Results of Analyses by
Transmission Electron Microscopy, (TEM)

Client Job Name: Kaylo Experiment

MAS Job Number: M6366

<u>MAS Sample Number:</u>	<u>Number of Asbestos Structures Counted</u>	<u>Asbestos Concentration, Structures per Cubic Centimeter</u>
1	2	0.135
2	1	0.058
3	0	<0.079
4	9	0.352
5	1	0.042
6	2	0.073
7	103	931.7
8	101	281.0
9	52	91.4
10	101	1084.8
11	103	79.3
12	73	252.7

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	520	1
Sample ID:	1 OWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6366-1	Filter Area:	1.34E+09	μm^2
Sample Received:	05/19/91	Grid Openings:	10	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7612	μm^2
Microscopist:	<u>RW. Richard Light</u>	Tot Area Examined:	76120	μm^2
Reviewed by:	<u>J. Jones</u>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0	

Analytical Sensitivity: 0.068 Asbestos Structures/cc
13.137 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	1	0	0.068	0.000
No. of Chrysotile Bundles:	0	0	0.000	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	1	0	0.068	0.000
No. Free Amphibole Fibers:	0	0	0.000	0.000
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	0	0.000	0.000
Total Asbestos Structures/cc (All):	0.135			
Total Asbestos Structures/cc (≥ 5):	0.000			
Total Structures/mm sq =	26			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

~ 0.000 display = Below Analytical Sensitivity

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Page: 1 of 1

Client: RICHARD SCRUGGS
Sample ID: 1 OWA
MAS Log Number: M6366-1
Sample Received: 05/19/91
Sample Due Date: 05/24/91
Type Analysis: AIR
Microscopist: RW
Reviewed by: J. R. [Signature]
Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 520 1
Filter Type: 47MM Plastic
Filter Area: 1.34E+09 μm^2
Grid Openings: 10
Grids Examined: 2
Avg Grid Sq. Area: 7612 μm^2
Tot Area Examined: 76120 μm^2
Screen Mag: 20000X
Dilution Factor: 1:2.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 2	chr	f	0.50	0.05	
2	2- 3	chr	m	3.50	1.80	

Types

chr - Chrysotile
amo - Amosite
cro - Crocidolite
non - Non-Asbestos

ant - Anthophyllite
tre - Tremolite
act - Actinolite

Structures

f - Fiber
b - Bundle
c - Cluster
m - Matrices

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05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	550 1
Sample ID:	2 OWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-2	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	8331 μm^2
Microscopist:	<u>WS (William Stark, RUC)</u>	Tot Area Examined:	83310 μm^2
Reviewed by:	<u>Stark</u>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0

Analytical Sensitivity: 0.058 Asbestos Structures/cc
 12.003 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	≥ 5 μm	< 5 μm	≥ 5 μm
No. Free Chrysotile Fibers:	0	0	0.000	0.000
No. of Chrysotile Bundles:	0	1	0.000	0.058
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	0	0	0.000	0.000
 No. Free Amphibole Fibers:	 0	 0	 0.000	 0.000
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	0	0.000	0.000
 Total Asbestos Structures/cc (All):	 0.058			
Total Asbestos Structures/cc (≥5):	0.058			
 Total Structures/mm sq =	 12			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

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Page: 1 of 1

Client:	RICHARD SCRUGGS	Sample Volume:	550 1
Sample ID:	2 OWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-2	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	8331 μm^2
Microscopist:	WS <i>William Spink (Purd)</i>	Tot Area Examined:	83310 μm^2
Reviewed by:	<i>J. C. King</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 2	chr	b	12.00	0.30	

Types

r - Chrysotile	ant - Anthophyllite
amo - Amosite	tre - Tremolite
cro - Crocidolite	act - Actinolite
non - Non-Asbestos	

Structures

f - Fiber
b - Bundle
c - Cluster
m - Matrices

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TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	430	1
Sample ID:	3 OWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6366-3	Filter Area:	1.34E+09	μm^2
Sample Received:	05/19/91	Grid Openings:	10	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7920	μm^2
Microscopist:	AH <i>Althman</i>	Tot Area Examined:	79200	μm^2
Reviewed by:	<i>J. Krew</i>	Screen Mag:	15709X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0	

Analytical Sensitivity: 0.079 Asbestos Structures/cc
12.626 Asbestos Structures/mm2

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	0	0	0.000	0.000
No. of Chrysotile Bundles:	0	0	0.000	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	0	0	0.000	0.000
No. Free Amphibole Fibers:	0	0	0.000	0.000
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	0	0.000	0.000
Total Asbestos Structures/cc (All):	0.000			
Total Asbestos Structures/cc (≥ 5):	0.000			
Total Structures/mm sq =	0			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

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TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	870 1
Sample ID:	4 OWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-4	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7878 μm^2
Microscopist:	<u>MM Melinda Motamedi (RWS)</u>	Tot Area Examined:	78780 μm^2
Reviewed by:	<u>J. Green</u>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0

Analytical Sensitivity: 0.039 Asbestos Structures/cc
 12.694 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	≥ 5 μm	< 5 μm	≥ 5 μm
No. Free Chrysotile Fibers:	6	0	0.235	0.000
No. of Chrysotile Bundles:	0	1	0.000	0.039
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	1	0	0.039	0.000
 No. Free Amphibole Fibers:	 0	 1	 0.000	 0.039
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	0	0.000	0.000
 Total Asbestos Structures/cc (All):	 0.352			
Total Asbestos Structures/cc (≥5):	0.078			
 Total Structures/mm sq =	 114			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

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Page: 1 of 1

Client:	RICHARD SCRUGGS	Sample Volume:	870 1
Sample ID:	4 OWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-4	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7878 μm^2
Microscopist:	MM <i>methoded photomicro</i> (Paw)	Tot Area Examined:	78780 μm^2
Reviewed by:	<i>J. Krew</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 2	chr	f	1.20	0.05	
2	1- 3	chr	f	3.60	0.15	
3	1- 4	chr	f	1.30	0.09	
4		chr	f	0.70	0.10	
5		chr	f	1.20	0.02	
6	2- 4	amo	f	5.80	0.60	
7		chr	f	1.40	0.10	
8		chr	m	2.30	0.50	
9		chr	b	12.00	2.20	

Types

chr - Chrysotile	ant - Anthophyllite
amo - Amosite	tre - Tremolite
cro - Crocidolite	act - Actinolite
non - Non-Asbestos	

Structures

f - Fiber
b - Bundle
c - Cluster
m - Matrices

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TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	870 1
Sample ID:	5 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-5	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7396 μm^2
Microscopist:	AH <i>Al Hume</i>	Tot Area Examined:	73960 μm^2
Reviewed by:	<i>A. Krew</i>	Screen Mag:	15709X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0

Analytical Sensitivity: 0.042 Asbestos Structures/cc
13.521 Asbestos Structures/mm2

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	0	0	0.000	0.000
No. of Chrysotile Bundles:	0	0	0.000	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	0	1	0.000	0.042
No. Free Amphibole Fibers:	0	0	0.000	0.000
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	0	0.000	0.000
Total Asbestos Structures/cc (All):	0.042			
Total Asbestos Structures/cc (≥ 5):	0.042			
Total Structures/mm sq =	14			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 1

Client:	RICHARD SCRUGGS	Sample Volume:	870 1
Sample ID:	5 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-5	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7396 μm^2
Microscopist:	AH <i>Althammer</i>	Tot Area Examined:	73960 μm^2
Reviewed by:	<i>J. Kim</i>	Screen Mag:	15709X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 3	chr	m	9.00	7.50	

Types

chr - Chrysotile	ant - Anthophyllite
amo - Amosite	tre - Tremolite
cro - Crocidolite	act - Actinolite
non - Non-Asbestos	

Structures

f - Fiber
b - Bundle
c - Cluster
m - Matrices

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TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	870 1
Sample ID:	6 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-6	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	8419 μm^2
Microscopist:	JK <i>J. Krawiec</i>	Tot Area Examined:	84190 μm^2
Reviewed by:	<i>Richard K. White</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:2.0

Analytical Sensitivity: 0.037 Asbestos Structures/cc
11.878 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	0	0	0.000	0.000
No. of Chrysotile Bundles:	0	0	0.000	0.000
No. of Chrysotile Clusters:	1	0	0.037	0.000
No. of Chrysotile Matrices:	1	0	0.037	0.000
No. Free Amphibole Fibers:	0	0	0.000	0.000
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	0	0.000	0.000
Total Asbestos Structures/cc (All):	0.073			
Total Asbestos Structures/cc (≥ 5):	0.000			
Total Structures/mm sq =	24			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

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Page: 1 of 1

Client: RICHARD SCRUGGS
Sample ID: 6 IWA
MAS Log Number: M6366-6
Sample Received: 05/19/91
Sample Due Date: 05/24/91
Type Analysis: AIR
Microscopist: JK *J. Kraus*
Reviewed by: *Robert L. Smith*
Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 870 1
Filter Type: 47MM Plastic
Filter Area: 1.34E+09 μm^2
Grid Openings: 10
Grids Examined: 2
Avg Grid Sq. Area: 8419 μm^2
Tot Area Examined: 84190 μm^2
Screen Mag: 20000X
Dilution Factor: 1:2.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 4	chr	c	2.10	1.20	
2	2- 5	chr	m	1.60	1.40	

Types

chr - Chrysotile
amo - Amosite
cro - Crocidolite
non - Non-Asbestos

ant - Anthophyllite
tre - Tremolite
act - Actinolite

Structures

f - Fiber
b - Bundle
c - Cluster
m - Matrices

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05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	330 1
Sample ID:	7 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-7	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	6
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7482 μm^2
Microscopist:	AH <i>[Signature]</i>	Tot Area Examined:	44892 μm^2
Reviewed by:	<i>[Signature]</i>	Screen Mag:	15709X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:100.0

Analytical Sensitivity: 9.045 Asbestos Structures/cc
22.276 Asbestos Structures/mm2

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	53	2	479.400	18.091
No. of Chrysotile Bundles:	4	3	36.181	27.136
No. of Chrysotile Clusters:	1	0	9.045	0.000
No. of Chrysotile Matrices:	20	3	180.906	27.136
No. Free Amphibole Fibers:	11	4	99.498	36.181
No. of Amphibole Bundles:	0	1	0.000	9.045
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	1	0	9.045	0.000
Total Asbestos Structures/cc (All):	931.664			
Total Asbestos Structures/cc (≥ 5):	117.589			
Total Structures/mm sq =	2294			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client: RICHARD SCRUGGS
 Sample ID: 7 IWA
 MAS Log Number: M6366-7
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: AH *Albhamme*
 Reviewed by: *J. Krewer*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 330 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 6
 Grids Examined: 2
 Avg Grid Sq. Area: 7482 μm^2
 Tot Area Examined: 44892 μm^2
 Screen Mag: 15709X
 Dilution Factor: 1:100.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	f	2.50	0.04	M5150
2		chr	f	1.00	0.04	
3		chr	f	0.70	0.03	
4		chr	f	2.50	0.03	
5		amo	f	1.80	0.30	
6		amo	f	2.20	0.20	
7		chr	f	3.00	0.03	
8		chr	b	2.50	0.20	
9		chr	c	4.00	1.20	
10		chr	m	4.00	3.50	
11		chr	b	4.00	0.15	
12		chr	f	2.00	0.05	
13		chr	m	1.80	1.50	
14		chr	f	3.50	0.05	
15		chr	m	1.50	1.00	
16		chr	f	1.00	0.05	
17		chr	f	1.20	0.05	
18		chr	f	1.20	0.03	
19		chr	f	2.50	0.04	
20		chr	m	2.50	2.00	
21	1- 2	chr	m	1.80	0.50	
22		chr	f	0.80	0.04	
23		chr	m	2.00	0.50	
24		chr	f	1.60	0.05	
25		chr	f	3.50	0.05	
26		amo	f	1.60	0.20	
27		amo	f	3.50	0.30	
28		chr	f	1.20	0.04	
29		chr	m	2.00	1.20	
30		chr	f	1.80	0.05	
31		chr	m	2.50	2.00	
32		chr	f	1.00	0.03	

Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client:	RICHARD SCRUGGS	Sample Volume:	330 1
Sample ID:	7 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-7	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	6
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7482 μm^2
Microscopist:	AH <i>Al Hama</i>	Tot Area Examined:	44892 μm^2
Reviewed by:	<i>J. Greus</i>	Screen Mag:	15709X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:100.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	f	0.70	0.03	
34		amo	f	4.00	0.50	
35		amo	f	1.80	0.20	
36		chr	b	1.50	0.40	
37		chr	f	1.80	0.03	
38		chr	m	6.50	3.00	
39	1- 3	chr	f	2.00	0.05	
40		chr	f	0.80	0.04	
41		chr	f	2.00	0.05	
42		chr	m	2.00	1.50	
43		chr	f	2.00	0.05	
44		chr	f	4.00	0.05	
45		chr	f	0.70	0.03	
46		chr	b	2.50	0.15	
47		amo	b	18.00	0.80	
48		amo	f	2.80	0.50	
49		chr	f	2.20	0.05	
50		chr	f	3.00	0.03	
51		chr	f	2.00	0.04	
52		chr	f	1.20	0.03	
53		chr	f	1.80	0.04	
54		amo	f	5.00	0.50	
55		chr	m	2.00	1.80	
56		amo	f	4.00	0.20	
57	2- 1	chr	m	2.00	1.20	
58		amo	f	6.50	0.30	
59		chr	f	1.80	0.04	
60		chr	b	15.00	0.20	
61		chr	f	2.20	0.03	
62		chr	b	6.50	0.30	
63		chr	m	2.50	2.00	
64		chr	m	2.00	0.50	
65		chr	f	1.50	0.03	
66		chr	f	1.40	0.03	
67		chr	b	5.50	0.15	
68		chr	f	0.80	0.05	
69		amo	f	1.80	0.20	
70		chr	f	8.50	0.03	
71		chr	m	3.50	2.50	

Client: RICHARD SCRUGGS
 Sample ID: 7 IWA
 MAS Log Number: M6366-7
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: AH *[Signature]*
 Reviewed by: *[Signature]*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 330 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 6
 Grids Examined: 2
 Avg Grid Sq. Area: 7482 μm^2
 Tot Area Examined: 44892 μm^2
 Screen Mag: 15709X
 Dilution Factor: 1:100.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	f	2.50	0.05	
73	2- 2	chr	m	6.00	5.00	
74		chr	f	2.50	0.05	
75		chr	f	1.80	0.04	
76		chr	f	2.50	0.05	
77		chr	f	5.00	0.04	
78		chr	f	1.20	0.04	
79		amo	f	8.00	0.30	
80		chr	m	2.50	0.80	
81		chr	f	2.00	0.04	
82		chr	m	1.50	1.00	
83		chr	f	3.00	0.03	
84		chr	m	1.30	1.00	
85		chr	f	1.80	0.03	
86		chr	f	1.50	0.05	
87		chr	f	1.00	0.05	
88		chr	m	3.50	2.50	
89		chr	m	9.50	3.50	
90		amo	f	3.50	0.30	
91	2- 3	chr	m	3.50	2.00	
92		amo	f	22.00	0.30	
93		chr	f	1.80	0.05	
94		chr	f	1.50	0.04	
95		chr	f	1.20	0.03	
96		chr	f	2.20	0.05	
97		chr	f	1.20	0.04	
98		chr	f	2.00	0.05	
99		amo	m	2.50	1.50	
100		amo	f	3.00	0.50	
101		chr	f	4.50	0.05	
102		chr	f	4.00	0.05	
103		chr	m	2.00	1.50	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	320	1
Sample ID:	8 IWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6366-8	Filter Area:	1.34E+09	µm ²
Sample Received:	05/19/91	Grid Openings:	4	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7525	µm ²
Microscopist:	<u>RW Kephart</u>	Tot Area Examined:	30100	µm ²
Reviewed by:	<u>J. Kephart</u>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:20.0	

Analytical Sensitivity: 2.782 Asbestos Structures/cc
33.223 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 µm	≥ 5 µm	< 5 µm	≥ 5 µm
No. Free Chrysotile Fibers:	44	2	122.425	5.565
No. of Chrysotile Bundles:	1	1	2.782	2.782
No. of Chrysotile Clusters:	1	0	2.782	0.000
No. of Chrysotile Matrices:	28	12	77.907	33.389
No. Free Amphibole Fibers:	3	1	8.347	2.782
No. of Amphibole Bundles:	3	3	8.347	8.347
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	1	1	2.782	2.782
Total Asbestos Structures/cc (All):	281.022			
Total Asbestos Structures/cc (≥5):	55.648			
Total Structures/mm sq =	3355			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client: RICHARD SCRUGGS
 Sample ID: 8 IWA
 MAS Log Number: M6366-8
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: RW Riedel
 Reviewed by: J. Krenn
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 320 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 4
 Grids Examined: 2
 Avg Grid Sq. Area: 7525 μm^2
 Tot Area Examined: 30100 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:20.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	m	4.00	1.70	
2		chr	m	6.00	3.00	
3		chr	f	3.00	0.05	
4		chr	f	0.60	0.05	
5		chr	m	7.00	5.50	
6		chr	f	1.70	0.05	
7		chr	f	1.60	0.05	
8		chr	f	1.50	0.05	
9		chr	f	4.50	0.05	
10		chr	m	4.50	2.00	
11	1- 2	chr	f	1.00	0.05	
12		amo	b	9.00	0.30	
13		amo	b	2.20	0.30	
14		chr	m	9.00	4.50	
15		amo	m	2.20	1.00	
16		chr	m	5.00	1.60	
17		chr	m	2.70	2.40	
18		chr	f	0.70	0.05	
19		chr	m	9.50	8.50	
20		chr	m	2.50	2.50	
21		chr	m	4.50	1.70	
22		chr	f	1.60	0.05	
23		chr	m	1.60	0.50	
24		chr	f	0.50	0.05	
25		chr	c	1.60	1.00	
26		chr	f	1.10	0.05	
27		chr	m	3.50	1.80	
28		chr	m	1.00	0.70	
29		amo	b	11.50	0.35	
30		chr	f	0.70	0.05	
31		chr	f	0.80	0.02	
32		chr	f	0.70	0.05	

Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client:	RICHARD SCRUGGS	Sample Volume:	320 1
Sample ID:	8 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-8	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	4
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7525 μm^2
Microscopist:	RW <i>Richard Scruggs</i>	Tot Area Examined:	30100 μm^2
Reviewed by:	<i>J. Kress</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:20.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	f	1.60	0.05	
34		chr	m	10.00	4.00	
35		chr	m	3.00	1.00	
36		chr	f	0.50	0.05	
37		chr	m	3.00	2.50	
38		amo	b	15.00	0.50	
39		amo	b	2.50	0.40	
40		chr	m	2.00	1.50	
41		chr	f	0.50	0.05	
42	2- 1	chr	m	4.20	2.00	
43		chr	m	3.50	3.00	
44		chr	f	0.70	0.05	
45		chr	m	2.00	1.00	
46		chr	m	3.50	2.20	
47		chr	f	1.40	0.05	
48		chr	m	3.00	2.20	
49		chr	m	3.50	2.00	
50		chr	f	1.70	0.08	
51		chr	f	3.00	0.05	
52		chr	m	5.50	5.00	
53		chr	f	1.50	0.05	
54		amo	f	11.50	0.20	
55		chr	m	4.20	4.00	
56		chr	f	2.40	0.05	
57		chr	f	2.30	0.05	
58		chr	f	7.50	0.05	
59		chr	f	1.60	0.05	
60		chr	m	6.00	5.50	
61		chr	m	2.50	1.20	
62		amo	f	3.00	0.15	
63		chr	f	0.70	0.02	
64		chr	f	5.50	0.05	
65		chr	f	1.20	0.05	
66		chr	b	0.70	0.15	
67		amo	m	13.50	12.50	
68		amo	f	3.50	0.20	
69		chr	m	3.00	2.30	
70		amo	f	2.30	0.20	
71		chr	f	1.00	0.05	

Client:	RICHARD SCRUGGS	Sample Volume:	320 1
Sample ID:	8 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-8	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	4
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7525 μm^2
Microscopist:	<u>RW. Richard Scruggs</u>	Tot Area Examined:	30100 μm^2
Reviewed by:	<u>[Signature]</u>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:20.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	f	2.50	0.05	
73	2- 2	chr	m	2.00	1.50	
74		chr	m	10.50	4.00	
75		chr	m	4.20	2.50	
76		chr	f	1.50	0.05	
77		chr	f	3.00	0.05	
78		chr	f	0.70	0.05	
79		chr	m	7.00	4.50	
80		chr	b	6.00	0.20	
81		chr	f	1.60	0.05	
82		chr	f	1.70	0.05	
83		chr	f	0.80	0.05	
84		chr	m	2.00	1.50	
85		chr	m	10.00	3.00	
86		chr	f	1.70	0.05	
87		chr	f	2.50	0.05	
88		chr	m	2.20	1.50	
89		chr	f	1.00	0.05	
90		chr	f	0.60	0.05	
91		chr	m	5.50	4.00	
92		chr	m	2.20	1.00	
93		chr	f	1.20	0.05	
94		chr	f	1.80	0.05	
95		chr	m	1.00	0.50	
96		chr	f	0.70	0.05	
97		chr	m	4.00	2.00	
98		chr	f	1.80	0.05	
99		chr	m	1.70	1.60	
100		amo	b	2.50	0.70	
101		chr	f	0.50	0.05	

MATERIALS ANALYTICAL SERVICES, INC.
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NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	310 1
Sample ID:	9 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-9	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	8117 μm^2
Microscopist:	SF <i>[Signature]</i>	Tot Area Examined:	81170 μm^2
Reviewed by:	<i>[Signature]</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:33.0

Analytical Sensitivity: 1.757 Asbestos Structures/cc
12.320 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	23	0	40.419	0.000
No. of Chrysotile Bundles:	0	0	0.000	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	19	3	33.390	5.272
No. Free Amphibole Fibers:	3	2	5.272	3.515
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	2	0.000	3.515
Total Asbestos Structures/cc (All):	91.383			
Total Asbestos Structures/cc (≥ 5):	12.302			
Total Structures/mm sq =	641			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 2

Client: RICHARD SCRUGGS
 Sample ID: 9 IWA
 MAS Log Number: M6366-9
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: SF *[Signature]*
 Reviewed by: *[Signature]*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 310 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 10
 Grids Examined: 2
 Avg Grid Sq. Area: 8117 μm^2
 Tot Area Examined: 81170 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:33.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	m	1.80	1.50	
2		chr	m	1.40	0.40	
3		chr	m	2.90	2.60	
4	1- 2	chr	f	2.70	0.05	
5		chr	f	1.90	0.07	
6		chr	f	3.90	0.05	
7		chr	f	2.40	0.07	
8		chr	f	1.60	0.05	
9		chr	m	1.20	1.10	
10	1- 3	chr	m	1.00	0.30	
11		amo	f	4.70	0.20	
12		chr	f	0.50	0.03	
13		chr	f	1.00	0.07	
14	1- 4	chr	m	2.80	1.70	
15		chr	f	0.90	0.07	
16		chr	m	1.40	0.30	
17		chr	m	2.20	1.10	
18		chr	f	2.80	0.07	
19		chr	f	1.00	0.03	
20		amo	f	1.00	0.18	
21	1- 5	chr	m	3.00	2.00	
22		chr	f	3.30	0.05	
23		chr	f	1.70	0.05	
24		chr	m	2.50	1.80	
25		amo	f	18.40	0.40	
26		chr	m	3.40	2.90	
27		chr	f	2.20	0.07	
28	2- 1	amo	f	2.70	0.10	
29		chr	f	1.00	0.05	
30		chr	f	0.80	0.05	
31		amo	m	6.20	3.70	
32		chr	m	2.00	1.60	

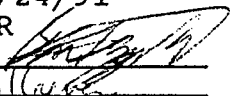
Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client: RICHARD SCRUGGS
Sample ID: 9 IWA
MAS Log Number: M6366-9
Sample Received: 05/19/91
Sample Due Date: 05/24/91
Type Analysis: AIR
Microscopist: SF 
Reviewed by: 
Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 310 1
Filter Type: 47MM Plastic
Filter Area: 1.34E+09 μm^2
Grid Openings: 10
Grids Examined: 2
Avg Grid Sq. Area: 8117 μm^2
Tot Area Examined: 81170 μm^2
Screen Mag: 20000X
Dilution Factor: 1:33.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	m	6.60	4.60	
34		chr	m	5.40	1.70	
35	2- 2	chr	m	2.10	0.90	
36		chr	m	2.00	1.50	
37		chr	f	1.20	0.03	
38		chr	m	2.00	1.00	
39		chr	f	0.90	0.07	
40		chr	f	3.30	0.05	
41		chr	m	1.60	0.60	
42	2- 3	chr	f	3.30	0.10	
43		chr	m	0.90	0.70	
44		chr	f	4.70	0.05	
45	2- 4	chr	f	0.60	0.05	
46		chr	m	3.60	2.70	
47		chr	f	1.90	0.10	
48		chr	f	0.60	0.07	
49		chr	m	5.30	3.60	
50	2- 5	chr	m	1.60	0.60	
51		amo	m	5.50	4.60	
52		amo	f	12.10	0.60	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	180	1
Sample ID:	10 IWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6366-10	Filter Area:	1.34E+09	µm ²
Sample Received:	05/19/91	Grid Openings:	9	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7701	µm ²
Microscopist:	JK <i>J. Kneve</i>	Tot Area Examined:	69309	µm ²
Reviewed by:	<i>NOTED</i>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:100.0	

Analytical Sensitivity: 10.741 Asbestos Structures/cc
 14.428 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 µm	≥ 5 µm	< 5 µm	≥ 5 µm
No. Free Chrysotile Fibers:	37	1	397.415	10.741
No. of Chrysotile Bundles:	2	0	21.482	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	45	5	483.343	53.705
No. Free Amphibole Fibers:	3	5	32.223	53.705
No. of Amphibole Bundles:	0	1	0.000	10.741
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	1	1	10.741	10.741

Total Asbestos Structures/cc (All): 1084.836
 Total Asbestos Structures/cc (≥5): 139.632

Total Structures/mm sq = 1457

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client: RICHARD SCRUGGS
 Sample ID: 10 IWA
 MAS Log Number: M6366-10
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: JK *Krawe*
 Reviewed by: *Therese Schum*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 180 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 9
 Grids Examined: 2
 Avg Grid Sq. Area: 7701 μm^2
 Tot Area Examined: 69309 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:100.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	f	0.50	0.05	M31747
2		chr	m	3.60	2.60	
3		chr	f	0.70	0.05	
4		chr	f	0.70	0.05	
5		chr	m	3.00	1.10	
6		chr	f	0.60	0.05	
7		chr	m	1.20	0.40	
8		chr	m	2.20	1.60	
9		chr	m	1.20	0.60	
10		chr	f	3.80	0.05	
11	1- 2	chr	m	2.60	2.00	M31747
12		amo	f	10.40	0.35	
13		chr	f	1.00	0.05	
14		chr	f	4.40	0.08	
15		chr	m	3.60	1.20	
16	1- 3	chr	m	3.00	1.80	M31747
17		chr	m	3.20	1.80	
18		chr	m	6.50	4.00	
19		chr	m	4.80	2.20	
20		chr	f	1.50	0.05	
21	1- 4	chr	m	3.00	2.80	M31747
22		chr	m	1.80	1.00	
23		chr	m	1.80	1.70	
24		chr	m	1.50	1.20	
25		chr	m	1.60	1.00	
26	1- 4	chr	f	1.70	0.08	M31747
27		amo	f	1.00	0.20	
28		chr	m	1.80	1.60	
29		chr	m	1.80	1.00	
30		chr	f	6.20	0.05	
31	1- 4	amo	f	13.80	0.60	M31747
32		chr	m	4.80	3.80	

Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client: RICHARD SCRUGGS
 Sample ID: 10 IWA
 MAS Log Number: M6366-10
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: JK *J. K. Jones*
 Reviewed by: *M. J. Jones*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 180 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 9
 Grids Examined: 2
 Avg Grid Sq. Area: 7701 μm^2
 Tot Area Examined: 69309 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:100.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		amo	f	5.20	0.55	
34		chr	m	4.40	1.80	
35		chr	f	0.60	0.05	
36		chr	f	4.40	0.08	
37		chr	m	1.10	0.40	
38		chr	b	3.60	0.10	
39	1- 5	chr	m	2.80	2.20	
40		chr	m	3.00	1.60	
41		chr	m	2.70	1.60	
42		chr	m	2.40	1.80	
43		chr	m	1.90	0.80	
44		chr	m	2.00	1.60	
45		chr	f	2.00	0.08	
46		chr	f	1.00	0.05	
47		chr	f	1.70	0.05	
48		chr	m	1.40	1.20	
49		chr	f	0.80	0.05	
50		chr	f	2.20	0.08	
51		chr	f	0.60	0.10	
52		chr	m	5.00	3.80	
53		chr	f	1.20	0.10	
54		chr	m	5.20	4.80	
55		amo	f	15.00	0.25	
56	2- 1	chr	f	2.80	0.05	
57		chr	f	2.40	0.08	
58		chr	m	2.80	1.80	
59		chr	f	1.60	0.05	
60		chr	f	1.00	0.05	
61		chr	m	1.70	1.60	
62		chr	m	0.90	0.50	
63		chr	m	1.20	0.60	
64	2- 2	chr	m	2.10	1.00	
65		chr	m	2.10	0.60	
66		chr	m	3.00	2.80	
67		chr	f	1.00	0.05	
68		chr	f	1.20	0.05	
69		amo	f	1.70	0.30	
70		chr	m	2.70	1.80	
71		chr	f	0.80	0.10	

Client: RICHARD SCRUGGS
 Sample ID: 10 IWA
 MAS Log Number: M6366-10
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: JK *JK*
 Reviewed by: *JK*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 180 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 9
 Grids Examined: 2
 Avg Grid Sq. Area: 7701 μm^2
 Tot Area Examined: 69309 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:100.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		amo	m	18.00	8.00	
73		chr	f	1.00	0.03	
74		chr	f	1.60	0.05	
75		chr	f	1.70	0.05	
76	2- 3	chr	m	2.20	2.00	
77		chr	m	2.80	1.60	
78		chr	m	1.20	0.40	
79		chr	f	1.60	0.08	
80		chr	f	2.40	0.05	
81		chr	m	2.00	1.70	
82		chr	b	1.70	0.15	
83		chr	f	1.00	0.05	
84		chr	f	0.50	0.05	
85		amo	f	5.60	0.40	
86	2- 4	chr	f	0.50	0.03	
87		chr	f	0.80	0.05	
88		chr	f	0.70	0.05	
89		chr	m	2.60	0.50	
90		chr	m	5.00	3.80	
91		chr	m	2.80	0.60	
92		chr	m	3.00	2.50	
93		chr	f	2.80	0.05	
94		chr	m	2.20	1.20	
95		amo	b	5.10	0.40	
96		chr	m	5.00	4.00	
97		chr	f	1.80	0.08	
98		amo	m	2.80	1.80	
99		amo	f	4.40	0.20	
100		chr	m	1.20	0.20	
101		chr	m	3.20	3.00	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	160	1
Sample ID:	11 IWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6366-11	Filter Area:	1.34E+09	μm^2
Sample Received:	05/19/91	Grid Openings:	10	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7182	μm^2
Microscopist:	RW <i>Richard W. White (OK)</i>	Tot Area Examined:	71820	μm^2
Reviewed by:	<i>Adrian</i>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:6.6	

Analytical Sensitivity: 0.770 Asbestos Structures/cc
13.924 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	38	0	29.246	0.000
No. of Chrysotile Bundles:	9	2	6.927	1.539
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	36	5	27.707	3.848
No. Free Amphibole Fibers:	4	1	3.079	0.770
No. of Amphibole Bundles:	2	3	1.539	2.309
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	2	1	1.539	0.770
Total Asbestos Structures/cc (All):	79.272			
Total Asbestos Structures/cc (≥ 5):	9.236			
Total Structures/mm sq =	1434			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client:	RICHARD SCRUGGS	Sample Volume:	160 1
Sample ID:	11 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-11	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7182 μm^2
Microscopist:	RW <i>Richard White (SK)</i>	Tot Area Examined:	71820 μm^2
Reviewed by:	<i>Richard White</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:6.6

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	f	0.60	0.05	
2		amo	m	4.20	1.80	
3		amo	b	6.00	0.25	
4		chr	m	1.70	0.60	
5		chr	m	3.50	2.50	
6		chr	f	1.20	0.02	
7		chr	f	1.60	0.08	
8		chr	f	1.50	0.05	
9		chr	m	1.50	1.00	
10		chr	f	0.60	0.02	
11		chr	b	2.50	0.20	
12	1- 2	chr	b	2.60	0.20	
13		chr	m	2.20	0.60	
14		chr	f	0.50	0.05	
15		chr	f	0.50	0.05	
16		chr	m	4.00	2.20	
17		chr	m	1.00	0.50	
18		amo	f	2.50	0.15	
19		chr	m	4.50	3.50	
20		chr	f	2.40	0.05	
21	1- 3	chr	f	0.70	0.05	
22		chr	b	3.00	0.15	
23		chr	f	1.50	0.05	
24		chr	f	2.00	0.05	
25		chr	f	1.80	0.05	
26		chr	f	0.50	0.05	
27		chr	f	0.60	0.05	
28		chr	f	0.70	0.05	
29		chr	m	3.00	1.80	
30		chr	m	2.50	0.70	
31		chr	m	2.20	2.00	
32		chr	m	1.80	1.80	

Types

chr - Chrysotile	ant - Anthophyllite
amo - Amosite	tre - Tremolite
cro - Crocidolite	act - Actinolite
non - Non-Asbestos	

Structures

f - Fiber
b - Bundle
c - Cluster
m - Matrices

Client:	RICHARD SCRUGGS	Sample Volume:	160 1
Sample ID:	11 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-11	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7182 μm^2
Microscopist:	RW <i>Richard White (H)</i>	Tot Area Examined:	71820 μm^2
Reviewed by:	<i>Al Hassan</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:6.6

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33	1- 4	chr	m	1.60	0.60	
34		chr	b	3.20	0.15	
35		chr	m	4.50	4.00	
36		chr	f	0.50	0.02	
37		amo	m	7.00	3.50	
38		chr	b	2.20	0.15	
39		chr	f	2.30	0.05	
40		chr	f	1.50	0.05	
41		chr	m	1.50	0.70	
42	1- 5	chr	m	1.50	0.80	
43		chr	m	6.20	1.50	
44		chr	m	1.60	1.00	
45		chr	f	1.50	0.05	
46		chr	f	2.80	0.05	
47		chr	m	3.00	1.60	
48		chr	b	4.20	0.20	
49		chr	f	0.50	0.05	
50	2- 1	amo	b	2.40	0.25	
51		chr	m	5.00	3.00	
52		chr	f	0.80	0.05	
53		chr	f	1.50	0.05	
54		chr	f	0.60	0.05	
55		chr	m	1.80	1.70	
56		chr	f	0.60	0.05	
57		chr	b	1.00	0.15	
58		chr	f	2.00	0.05	
59		amo	b	10.00	0.40	
60		chr	f	1.00	0.02	
61		chr	b	10.50	0.15	
62		amo	b	12.50	0.40	
63	2- 2	chr	m	3.00	1.60	
64		chr	m	7.00	4.00	
65		amo	f	1.60	0.10	
66		chr	m	3.50	2.20	
67		chr	m	2.30	2.20	
68		chr	f	0.80	0.05	
69		chr	m	1.60	0.70	
70		chr	m	4.00	2.50	
71	2- 3	chr	m	2.00	1.00	

Client:	RICHARD SCRUGGS	Sample Volume:	160 1
Sample ID:	11 IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6366-11	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	10
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7182 μm^2
Microscopist:	RW <i>Richard Scruggs (JK)</i>	Tot Area Examined:	71820 μm^2
Reviewed by:	<i>A. H. Hume</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:6.6

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	f	1.50	0.05	
73		chr	m	3.00	1.00	
74		amo	f	2.20	0.15	
75		chr	m	2.40	1.80	
76		chr	m	2.30	1.70	
77		chr	f	1.60	0.05	
78		amo	f	7.00	0.15	
79		chr	m	9.00	7.00	
80	2- 4	amo	f	1.80	0.15	
81		chr	b	3.00	0.15	
82		chr	f	1.50	0.08	
83		chr	m	2.50	2.50	
84		chr	m	10.00	7.00	
85		chr	m	2.00	2.00	
86		chr	f	0.60	0.05	
87		chr	m	2.50	2.20	
88		chr	m	2.80	2.20	
89		chr	m	3.50	2.20	
90		chr	f	0.80	0.05	
91		amo	b	3.00	0.25	
92	2- 5	chr	f	0.60	0.05	
93		chr	m	2.00	1.80	
94		chr	f	4.00	0.05	
95		chr	m	2.50	2.20	
96		chr	m	2.50	1.00	
97		chr	m	2.00	1.60	
98		chr	b	2.00	0.20	
99		chr	b	1.00	0.20	
100		chr	f	0.60	0.05	
101		amo	m	2.50	1.50	
102		chr	f	0.80	0.05	
103		chr	f	1.20	0.05	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	160	1
Sample ID:	12 IWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6366-12	Filter Area:	1.34E+09	μm^2
Sample Received:	05/19/91	Grid Openings:	10	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	8057	μm^2
Microscopist:	MS <i>M. J. [Signature]</i>	Tot Area Examined:	80570	μm^2
Reviewed by:	<i>[Signature]</i>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:33.3	

Analytical Sensitivity: 3.461 Asbestos Structures/cc
12.412 Asbestos Structures/mm2

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	27	0	93.459	0.000
No. of Chrysotile Bundles:	0	0	0.000	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	30	9	103.843	31.153
No. Free Amphibole Fibers:	1	2	3.461	6.923
No. of Amphibole Bundles:	0	1	0.000	3.461
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	1	2	3.461	6.923
Total Asbestos Structures/cc (All):	252.684			
Total Asbestos Structures/cc (≥ 5):	48.460			
Total Structures/mm sq =	906			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client: RICHARD SCRUGGS
 Sample ID: 12 IWA
 MAS Log Number: M6366-12
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: MS [Signature]
 Reviewed by: [Signature]
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 160 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 10
 Grids Examined: 2
 Avg Grid Sq. Area: 8057 μm^2
 Tot Area Examined: 80570 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:33.3

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	m	3.10	1.20	
2		chr	m	8.00	5.00	
3		chr	m	1.60	1.00	
4	1- 2	chr	m	6.10	2.80	
5		chr	m	2.30	1.80	
6		chr	m	2.90	1.70	
7		chr	f	3.80	0.09	
8	1- 3	amo	b	12.30	1.00	
9		chr	f	2.90	0.05	
10		chr	f	1.70	0.05	
11		chr	f	3.50	0.09	
12		chr	m	2.10	0.80	
13		chr	f	0.90	0.02	
14	1- 4	chr	m	4.40	2.20	
15		chr	m	6.40	2.30	
16		chr	m	2.70	1.00	
17		chr	m	1.00	0.80	
18		chr	m	3.20	1.50	
19		chr	f	0.60	0.05	
20		chr	m	1.80	1.00	
21	1- 5	chr	m	6.50	5.40	
22		chr	m	2.00	1.60	
23		chr	f	1.80	0.05	
24		chr	m	3.00	0.80	
25	2- 1	chr	m	0.80	0.20	
26		chr	m	4.20	0.40	
27		chr	f	0.60	0.05	
28		chr	m	11.00	9.00	
29		chr	f	0.50	0.05	
30		chr	m	1.50	0.35	
31		chr	f	2.30	0.09	
32		chr	m	5.70	1.50	

Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Materials Analytical Services, Inc.

Page: 2 of 3

Client: RICHARD SCRUGGS
 Sample ID: 12 IWA
 MAS Log Number: M6366-12
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: MS [Signature]
 Reviewed by: [Signature]
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 160 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 10
 Grids Examined: 2
 Avg Grid Sq. Area: 8057 μm^2
 Tot Area Examined: 80570 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:33.3

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	f	2.00	0.05	
34		chr	f	0.70	0.05	
35		chr	m	1.60	1.60	
36		amo	m	12.50	11.00	
37		chr	m	12.50	11.00	
38	2- 2	chr	m	1.30	0.50	
39		chr	m	7.80	5.80	
40		chr	f	2.60	0.09	
41		chr	m	4.00	3.00	
42		chr	m	2.90	2.10	
43		chr	f	1.80	0.05	
44	2- 3	chr	m	2.00	1.40	
45		chr	f	0.90	0.02	
46		chr	f	1.50	0.02	
47		chr	f	0.50	0.05	
48		chr	m	2.60	0.80	
49		chr	f	0.60	0.05	
50		chr	m	1.50	0.40	
51		chr	f	1.50	0.09	
52		chr	m	3.00	2.20	
53		amo	m	3.00	2.20	
54		amo	f	8.40	1.10	
55		chr	f	0.70	0.05	
56		chr	f	1.00	0.05	
57		chr	f	1.50	0.05	
58		chr	m	5.00	1.80	
59	2- 4	chr	f	0.90	0.09	
60		chr	m	3.60	2.20	
61		chr	m	4.20	2.00	
62	2- 5	amo	f	2.20	0.25	
63		amo	m	7.40	3.40	
64		chr	f	1.00	0.05	
65		chr	m	3.60	2.50	
66		chr	f	0.70	0.05	
67		chr	f	0.70	0.05	
68		chr	m	1.50	0.20	
69		chr	m	2.00	1.80	
70		chr	f	0.70	0.05	
71		chr	m	1.50	0.50	

Materials Analytical Services, Inc.

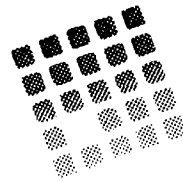
Page: 3 of 3

Client: RICHARD SCRUGGS
Sample ID: 12 IWA
MAS Log Number: M6366-12
Sample Received: 05/19/91
Sample Due Date: 05/24/91
Type Analysis: AIR
Microscopist: MS *[Signature]*
Reviewed by: *[Signature]*
Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 160 1
Filter Type: 47MM Plastic
Filter Area: 1.34E+09 μm^2
Grid Openings: 10
Grids Examined: 2
Avg Grid Sq. Area: 8057 μm^2
Tot Area Examined: 80570 μm^2
Screen Mag: 20000X
Dilution Factor: 1:33.3

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	m	2.60	0.90	
73		amo	f	10.00	0.25	

PERSONAL MONITORING



MATERIALS
ANALYTICAL
SERVICES

COPY

May 24, 1991

Mr. Richard Scruggs
Richard F. Scruggs Law Firm, PA
P.O. Drawer 1425
Pascagoula, MS 39568

Dear Mr. Scruggs:

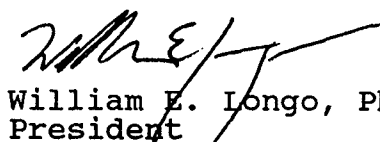
Enclosed are the analyses of the air samples received at our facility on May 19, 1991. The samples were sent under your job/purchase order number: Kaylo Experiment, and were labelled:

1P IWA
2P IWA

3P IWA
4P IWA

Please call our office at your convenience should you have any questions concerning the analyses of your samples.

Sincerely,


William E. Longo, Ph.D.
President

WEL: lac
Enc.
Ref: M6368

CLIENT NAME: Richard Scruggs Law Firm

CLIENT JOB NAME: Kaylo Experiment

MAS JOB: M6368

MAS
SAMPLE
NUMBER

SUMMARY OF AIR SAMPLE LOCATIONS

1	1P, 5/18/91, Inside during cutting
2	2P, 5/18/91, Inside during cutting
3	3P, 5/18/91, Inside during sweeping
4	4P, 5/18/91, Inside during sweeping

Summary of Results of Analyses by
Transmission Electron Microscopy, (TEM)

Client Job Name: Kaylo Experiment

MAS Job Number: M6368

<u>MAS Sample Number:</u>	<u>Number of Asbestos Structures Counted</u>	<u>Asbestos Concentration, Structures per Cubic Centimeter</u>
1	96	591.4
2	104	255.5
3	110	304.2
4	98	698.3

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client: RICHARD SCRUGGS Sample Volume: 74 1
Sample ID: 1P IWA Filter Type: 47MM Plastic
MAS Log Number: M6368-1 Filter Area: 1.34E+09 μm^2
Sample Received: 05/19/91 Grid Openings: 2
Sample Due Date: 05/24/91 Grids Examined: 2
Type Analysis: AIR Avg Grid Sq. Area: 7349 μm^2
Microscopist: RW Richard R White Tot Area Examined: 14698 μm^2
Reviewed by: Margaret Strung Screen Mag: 20000X
Client Proj/ref: KAYLO EXPERIMENT Dilution Factor: 1:5.0

Analytical Sensitivity: 6.160 Asbestos Structures/cc
68.036 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	44	0	271.043	0.000
No. of Chrysotile Bundles:	3	1	18.480	6.160
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	33	5	203.282	30.800
No. Free Amphibole Fibers:	3	0	18.480	0.000
No. of Amphibole Bundles:	1	6	6.160	36.960
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	0	0	0.000	0.000
Total Asbestos Structures/cc (All):	591.366			
Total Asbestos Structures/cc (≥ 5):	73.921			
Total Structures/mm sq =	6532			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client:	RICHARD SCRUGGS	Sample Volume:	74	1
Sample ID:	1P IWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6368-1	Filter Area:	1.34E+09	μm ²
Sample Received:	05/19/91	Grid Openings:	2	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7349	μm ²
Microscopist:	RW <i>Richard Scruggs</i>	Tot Area Examined:	14698	μm ²
Reviewed by:	<i>Michael S. Brown</i>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:5.0	

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	m	7.00	4.50	
2		chr	m	3.00	2.50	
3		amo	b	12.50	0.40	
4		amo	b	11.00	0.40	
5		amo	b	3.00	0.60	
6		chr	f	2.30	0.05	
7		chr	m	4.00	2.50	
8		chr	m	4.00	2.00	
9		chr	m	2.50	2.50	
10		chr	f	1.80	0.05	
11		chr	f	2.20	0.05	
12		chr	m	1.50	0.50	
13		chr	m	1.70	1.00	
14		chr	f	1.00	0.05	
15		chr	f	0.80	0.05	
16		chr	m	23.00	3.50	
17		chr	f	4.50	0.05	
18		chr	f	2.00	0.05	
19		chr	m	2.20	1.80	
20		chr	f	0.70	0.08	
21		chr	f	1.70	0.08	
22		chr	f	1.00	0.10	
23		chr	f	1.20	0.05	
24		chr	m	10.50	5.00	
25		chr	m	1.60	0.80	
26		chr	m	18.50	4.00	
27		amo	b	41.00	0.80	
28		chr	m	1.70	0.60	
29		chr	b	4.50	0.15	
30		amo	b	11.00	0.40	
31		chr	f	0.50	0.05	
32		chr	f	1.60	0.05	

Types

chr - Chrysotile	ant - Anthophyllite
amo - Amosite	tre - Tremolite
cro - Crocidolite	act - Actinolite
non - Non-Asbestos	

Structures

f - Fiber
b - Bundle
c - Cluster
m - Matrices

Client:	RICHARD SCRUGGS	Sample Volume:	74 1
Sample ID:	1P IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6368-1	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	2
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7349 μm^2
Microscopist:	RW <i>Richard Scruggs</i>	Tot Area Examined:	14698 μm^2
Reviewed by:	<i>William G. Starn</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:5.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	m	2.00	1.60	
34		chr	m	3.00	0.60	
35		amo	f	2.40	0.20	
36		amo	f	4.50	0.20	
37		amo	f	3.50	0.20	
38		chr	f	1.00	0.05	
39		chr	f	2.50	0.02	
40		chr	f	2.00	0.05	
41		chr	f	2.00	0.80	
42	2- 1	chr	b	2.00	0.20	
43		chr	m	1.70	0.80	
44		chr	f	0.70	0.02	
45		chr	m	2.40	1.50	
46		chr	b	1.80	0.15	
47		chr	m	4.00	3.00	
48		chr	m	3.50	2.20	
49		chr	m	2.50	1.00	
50		chr	f	0.70	0.05	
51		chr	m	4.20	4.00	
52		chr	f	1.50	0.02	
53		chr	f	0.60	0.05	
54		chr	f	2.40	0.05	
55		amo	b	8.00	0.40	
56		chr	m	4.00	1.60	
57		chr	f	0.50	0.02	
58		chr	f	2.20	0.05	
59		chr	m	9.50	7.00	
60		chr	f	0.50	0.05	
61		chr	m	4.00	1.20	
62		chr	b	19.00	1.60	
63		chr	f	2.00	0.05	
64		chr	f	1.70	0.05	
65		chr	f	1.50	0.05	
66		chr	m	3.00	1.50	
67		chr	f	1.20	0.05	
68		chr	f	4.00	0.05	
69		chr	m	3.50	1.20	
70		chr	m	1.80	0.70	
71		chr	f	1.00	0.05	

Client:	RICHARD SCRUGGS	Sample Volume:	74 1
Sample ID:	1P IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6368-1	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	2
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7349 μm^2
Microscopist:	RW <i>Rudolf R. Wright</i>	Tot Area Examined:	14698 μm^2
Reviewed by:	<i>Maya...</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:5.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	m	2.50	2.20	
73		chr	f	0.80	0.05	
74		chr	f	0.50	0.05	
75		chr	m	2.20	1.50	
76		chr	m	2.40	1.60	
77		chr	f	0.50	0.05	
78		chr	m	1.00	0.70	
79		chr	m	1.80	1.20	
80		chr	m	2.50	2.00	
81		chr	m	1.00	0.60	
82		chr	m	1.50	1.00	
83		chr	f	3.00	0.02	
84		chr	m	3.00	0.60	
85		amo	b	12.00	0.40	
86		chr	f	2.00	0.05	
87		chr	f	1.20	0.05	
88		chr	f	0.50	0.05	
89		chr	f	0.60	0.05	
90		chr	m	2.00	1.80	
91		chr	f	1.00	0.10	
92		chr	f	0.70	0.05	
93		chr	m	2.20	0.70	
94		chr	f	1.00	0.08	
95		chr	f	1.80	0.08	
96		chr	f	2.00	0.05	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	64 1
Sample ID:	2P IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6368-2	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	7
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	8156 μm^2
Microscopist:	AH <i>Al Hany</i>	Tot Area Examined:	57092 μm^2
Reviewed by:	<i>Richard R. White</i>	Screen Mag:	15709X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:6.7

Analytical Sensitivity: 2.457 Asbestos Structures/cc
 17.516 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	≥ 5 μm	< 5 μm	≥ 5 μm
No. Free Chrysotile Fibers:	40	2	98.284	4.914
No. of Chrysotile Bundles:	3	0	7.371	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	37	7	90.913	17.200
 No. Free Amphibole Fibers:	 4	 3	 9.828	 7.371
No. of Amphibole Bundles:	0	1	0.000	2.457
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	2	5	4.914	12.286
 Total Asbestos Structures/cc (All):	 255.539			
Total Asbestos Structures/cc (≥5):	44.228			
 Total Structures/mm sq =	 1822			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client: RICHARD SCRUGGS
 Sample ID: 2P IWA
 MAS Log Number: M6368-2
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: AH *at Hanna*
 Reviewed by: *David R. White*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 64 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 7
 Grids Examined: 2
 Avg Grid Sq. Area: 8156 μm^2
 Tot Area Examined: 57092 μm^2
 Screen Mag: 15709X
 Dilution Factor: 1:6.7

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	m	3.40	2.50	
2		amo	f	2.20	0.20	
3		chr	f	1.80	0.05	
4		amo	m	3.00	2.00	
5		chr	f	2.50	0.05	
6		chr	m	9.00	8.50	
7		chr	m	2.50	1.50	
8		chr	m	2.00	1.50	
9		chr	m	1.80	1.50	
10		chr	b	3.20	0.30	
11		chr	f	2.00	0.04	
12		chr	f	1.50	0.05	
13		chr	f	2.50	0.05	
14		chr	f	1.50	0.05	
15		chr	m	9.00	8.00	
16		chr	m	2.80	2.00	
17	1- 2	chr	f	4.00	0.05	
18		chr	f	1.50	0.04	
19		chr	f	1.00	0.03	
20		chr	f	1.00	0.03	
21		chr	m	2.50	1.50	
22		chr	m	3.00	2.00	
23		chr	m	2.50	1.00	
24		amo	m	24.00	7.00	
25		chr	m	2.50	2.00	
26		chr	f	1.50	0.04	
27	1- 3	chr	f	2.00	0.05	
28		chr	m	2.80	2.00	
29		chr	f	1.00	0.03	
30		chr	m	7.50	6.00	
31		chr	m	5.00	3.50	
32		chr	m	2.00	1.80	

Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client: RICHARD SCRUGGS
 Sample ID: 2P IWA
 MAS Log Number: M6368-2
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: AH *Al Hayano*
 Reviewed by: *Richard Scruggs*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 64 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 7
 Grids Examined: 2
 Avg Grid Sq. Area: 8156 μm^2
 Tot Area Examined: 57092 μm^2
 Screen Mag: 15709X
 Dilution Factor: 1:6.7

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		amo	f	6.50	0.30	
34		chr	m	3.00	1.80	
35		chr	f	1.30	0.04	
36		chr	m	2.00	1.20	
37	1- 4	chr	f	1.00	0.04	
38		chr	m	3.50	1.80	
39		chr	f	1.40	0.03	
40		chr	f	1.20	0.04	
41		chr	f	6.00	0.05	
42		chr	f	1.20	0.04	
43		chr	f	2.00	0.05	
44		chr	m	2.50	1.50	
45		chr	m	1.80	1.00	
46		chr	m	1.20	0.80	
47		chr	f	2.40	0.05	
48		chr	b	2.50	0.80	
49		amo	f	7.00	0.40	
50		chr	m	3.00	2.00	
51		chr	f	2.20	0.05	
52		amo	m	5.80	2.00	
53		chr	f	5.00	0.05	
54	1- 5	amo	b	24.00	1.80	
55		chr	f	1.50	0.04	
56		chr	f	1.80	0.04	
57		chr	m	14.00	11.00	
58		chr	m	1.80	1.20	
59		chr	m	1.20	0.80	
60		chr	m	1.80	1.20	
61		chr	m	3.50	3.00	
62		chr	m	2.50	2.00	
63		chr	m	2.50	0.05	
64		amo	f	4.00	0.20	
65		chr	m	3.80	1.20	
66		chr	f	1.50	0.04	
67	2- 1	chr	f	2.20	0.05	
68		chr	m	2.00	0.80	
69		amo	m	8.00	4.00	
70		chr	f	3.00	0.05	
71		chr	f	0.80	0.03	

Client: RICHARD SCRUGGS
 Sample ID: 2P IWA
 MAS Log Number: M6368-2
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: AH [Signature]
 Reviewed by: [Signature]
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 64 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 7
 Grids Examined: 2
 Avg Grid Sq. Area: 8156 μm^2
 Tot Area Examined: 57092 μm^2
 Screen Mag: 15709X
 Dilution Factor: 1:6.7

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	m	2.00	0.80	
73		chr	m	2.20	1.00	
74		chr	f	1.50	0.05	
75		chr	m	11.00	9.50	
76		chr	f	1.50	0.05	
77		chr	f	2.50	0.05	
78		chr	m	2.00	1.50	
79		chr	f	3.00	0.05	
80		chr	m	2.00	1.20	
81		chr	m	9.00	6.50	
82		amo	m	2.50	1.50	
83		chr	m	2.00	1.50	
84		chr	f	1.20	0.03	
85	2- 2	chr	f	1.50	0.04	
86		chr	f	2.50	0.05	
87		chr	f	3.50	0.05	
88		chr	m	2.50	2.00	
89		amo	m	11.50	2.50	
90		chr	m	1.80	1.20	
91		amo	f	1.80	0.20	
92		chr	f	2.20	0.05	
93		amo	f	2.60	0.20	
94		chr	m	3.00	2.00	
95		chr	f	3.50	0.04	
96		amo	f	5.00	0.10	
97		amo	m	12.00	3.50	
98		chr	m	2.80	2.50	
99		chr	f	1.20	0.03	
100		chr	f	3.50	0.05	
101		chr	b	2.50	0.20	
102		chr	f	1.80	0.04	
103		chr	m	2.50	1.50	
104		chr	m	3.00	2.00	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	40	1
Sample ID:	3P IWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6368-3	Filter Area:	1.34E+09	μm^2
Sample Received:	05/19/91	Grid Openings:	5	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7994	μm^2
Microscopist:	SF <i>[Signature]</i>	Tot Area Examined:	39970	μm^2
Reviewed by:	<i>[Signature]</i>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:3.3	

Analytical Sensitivity: 2.766 Asbestos Structures/cc
25.019 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	$\geq$ 5 μm	< 5 μm	$\geq$ 5 μm
No. Free Chrysotile Fibers:	28	1	77.443	2.766
No. of Chrysotile Bundles:	4	0	11.063	0.000
No. of Chrysotile Clusters:	0	0	0.000	0.000
No. of Chrysotile Matrices:	56	9	154.886	24.892
No. Free Amphibole Fibers:	2	0	5.532	0.000
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	4	6	11.063	16.595
Total Asbestos Structures/cc (All):	304.241			
Total Asbestos Structures/cc (≥ 5):	44.253			
Total Structures/mm sq =	2752			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client: RICHARD SCRUGGS
 Sample ID: 3P IWA
 MAS Log Number: M6368-3
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: SF *[Signature]*
 Reviewed by: *[Signature]*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 40 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 5
 Grids Examined: 2
 Avg Grid Sq. Area: 7994 μm^2
 Tot Area Examined: 39970 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:3.3

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	m	1.40	0.30	
2		chr	f	1.90	0.10	
3		chr	m	3.90	3.80	
4		chr	m	3.20	2.80	
5		chr	m	2.00	1.60	
6		chr	m	3.10	1.70	
7		chr	b	2.00	0.20	
8		chr	f	0.50	0.03	
9		chr	f	1.30	0.07	
10		chr	m	6.30	6.00	
11		chr	m	3.80	3.00	
12		chr	f	1.10	0.07	
13		chr	m	1.60	1.60	
14		chr	m	2.00	1.50	
15		amo	m	6.60	5.00	
16		chr	m	4.20	2.10	
17		chr	m	2.30	1.10	
18		chr	m	2.40	1.50	
19	1- 2	chr	m	2.80	2.80	
20		chr	m	5.90	2.40	
21		chr	f	3.90	0.05	
22		chr	m	5.40	5.20	
23		chr	m	2.80	2.00	
24		chr	m	6.10	1.90	
25		chr	m	1.10	0.70	
26		chr	m	1.70	0.30	
27		amo	m	6.10	2.90	
28		chr	m	4.20	1.10	
29		amo	m	5.00	2.40	
30		amo	m	4.40	3.60	
31		chr	b	1.40	0.20	
32		chr	m	0.70	0.30	

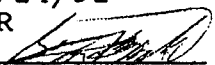
Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client: RICHARD SCRUGGS
 Sample ID: 3P IWA
 MAS Log Number: M6368-3
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: SF 
 Reviewed by: 
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 40 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 5
 Grids Examined: 2
 Avg Grid Sq. Area: 7994 μm^2
 Tot Area Examined: 39970 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:3.3

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	f	0.50	0.03	
34		amo	m	9.80	5.60	
35		chr	m	2.80	2.40	
36		chr	f	0.60	0.05	
37		chr	f	0.90	0.05	
38		chr	m	2.80	0.90	
39		chr	m	2.00	1.60	
40		amo	m	8.40	2.10	
41		chr	m	1.80	1.60	
42		chr	m	6.40	3.80	
43		chr	m	4.80	2.90	
44	2- 1	chr	m	3.80	1.80	
45		chr	f	1.00	0.10	
46		chr	f	0.50	0.07	
47		amo	m	3.90	0.50	
48		chr	m	3.20	0.40	
49		chr	f	2.40	0.05	
50		chr	f	2.00	0.10	
51		chr	m	1.90	0.40	
52		chr	m	3.30	2.00	
53		chr	m	2.00	1.00	
54		chr	f	0.70	0.05	
55		chr	m	6.40	3.70	
56		chr	m	1.00	0.60	
57		chr	f	3.20	0.07	
58		chr	m	1.70	1.60	
59		chr	m	2.80	0.50	
60		chr	m	3.70	3.00	
61		chr	f	1.70	0.05	
62		chr	f	0.60	0.07	
63		amo	m	2.80	1.90	
64		chr	m	5.20	0.70	
65	2- 2	chr	f	0.50	0.03	
66		chr	m	3.80	2.80	
67		chr	m	0.80	0.30	
68		chr	m	1.70	0.70	
69		amo	f	4.40	0.40	
70		amo	f	3.90	0.30	
71		chr	m	2.10	1.10	

Client: RICHARD SCRUGGS
 Sample ID: 3P IWA
 MAS Log Number: M6368-3
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: SF *[Signature]*
 Reviewed by: *[Signature]*
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 40 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 5
 Grids Examined: 2
 Avg Grid Sq. Area: 7994 μm^2
 Tot Area Examined: 39970 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:3.3

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	m	1.20	0.60	
73		chr	f	2.30	0.07	
74		chr	b	1.30	0.25	
75		chr	f	0.60	0.05	
76		amo	m	4.20	3.70	
77		chr	m	5.30	4.00	
78		chr	f	0.50	0.05	
79		chr	m	2.20	1.50	
80		chr	m	2.00	1.90	
81		chr	m	4.20	0.60	
82		chr	m	1.80	1.80	
83		chr	f	2.10	0.05	
84		chr	m	3.00	1.00	
85		chr	m	4.20	2.30	
86		chr	m	3.40	1.80	
87		chr	m	2.60	1.50	
88		chr	f	1.80	0.05	
89	2- 3	chr	m	5.00	1.30	
90		amo	m	5.20	4.00	
91		chr	m	1.80	0.90	
92		chr	m	1.90	0.80	
93		chr	m	0.70	0.30	
94		chr	m	4.00	1.40	
95		chr	m	3.00	1.60	
96		chr	m	1.70	0.80	
97		chr	f	15.90	0.07	
98		chr	f	0.50	0.03	
99		chr	m	2.30	1.20	
100		chr	m	2.60	1.10	
101		chr	m	1.10	0.90	
102		chr	f	1.60	0.07	
103		chr	f	0.50	0.07	
104		chr	b	2.20	0.30	
105		chr	f	1.60	1.20	
106		chr	f	1.70	0.03	
107		chr	m	1.60	1.20	
108		chr	m	2.40	0.70	
109		chr	m	2.20	0.40	
110		chr	f	0.70	0.03	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Volume:	40 1
Sample ID:	4P IWA	Filter Type:	47MM Plastic
MAS Log Number:	M6368-4	Filter Area:	1.34E+09 μm^2
Sample Received:	05/19/91	Grid Openings:	3
Sample Due Date:	05/24/91	Grids Examined:	2
Type Analysis:	AIR	Avg Grid Sq. Area:	7836 μm^2
Microscopist:	MS <i>W. J. White</i>	Tot Area Examined:	23508 μm^2
Reviewed by:	<i>Richard L. White</i>	Screen Mag:	20000X
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:5.0

Analytical Sensitivity: 7.125 Asbestos Structures/cc
 42.539 Asbestos Structures/mm²

	Area Examined		Structures/cc	
	< 5 μm	≥ 5 μm	< 5 μm	≥ 5 μm
No. Free Chrysotile Fibers:	32	0	228.007	0.000
No. of Chrysotile Bundles:	3	0	21.376	0.000
No. of Chrysotile Clusters:	0	1	0.000	7.125
No. of Chrysotile Matrices:	41	12	292.135	85.503
 No. Free Amphibole Fibers:	 2	 4	 14.250	 28.501
No. of Amphibole Bundles:	0	0	0.000	0.000
No. of Amphibole Clusters:	0	0	0.000	0.000
No. of Amphibole Matrices:	2	1	14.250	7.125
 Total Asbestos Structures/cc (All):	 698.273			
Total Asbestos Structures/cc (≥5):	128.254			
 Total Structures/mm sq =	 4169			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 3

Client: RICHARD SCRUGGS
 Sample ID: 4P IWA
 MAS Log Number: M6368-4
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: MS [Signature]
 Reviewed by: Richard Scruggs
 Client Proj/ref: KAYLO EXPERIMENT

Sample Volume: 40 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 3
 Grids Examined: 2
 Avg Grid Sq. Area: 7836 μm^2
 Tot Area Examined: 23508 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:5.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	f	0.90	0.02	
2		chr	b	4.50	0.40	
3		chr	f	2.00	0.05	
4		chr	f	1.10	0.05	
5		chr	m	1.60	1.00	
6		chr	m	1.00	0.80	
7		chr	m	1.80	0.60	
8		chr	m	6.80	4.00	
9		chr	m	2.00	0.40	
10		chr	f	4.90	0.05	
11		chr	f	1.00	0.05	
12		chr	f	0.60	0.09	
13		chr	m	5.60	1.50	
14		chr	f	2.40	0.10	
15		chr	m	5.00	2.00	
16		chr	m	1.50	0.90	
17		chr	m	7.00	4.90	
18		chr	m	1.60	1.00	
19		chr	f	1.00	0.05	
20		chr	m	1.50	0.90	
21		chr	m	10.00	4.10	
22		chr	f	0.50	0.05	
23		chr	m	6.50	3.50	
24		chr	m	7.00	4.00	
25		chr	m	1.80	1.00	
26		amo	f	2.30	0.25	
27		chr	m	11.00	6.00	
28		chr	m	3.00	2.40	
29		chr	m	4.60	1.00	
30		chr	m	2.00	0.40	
31		chr	m	2.20	2.00	
32		chr	m	2.00	0.90	

Types

chr - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client: RICHARD SCRUGGS
 Sample ID: 4P IWA
 MAS Log Number: M6368-4
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: AIR
 Microscopist: MS [Signature]
 Reviewed by: Richard A. White
 Client Proj/ref: KAYLO EXPERIMENT

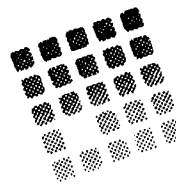
Sample Volume: 40 1
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 3
 Grids Examined: 2
 Avg Grid Sq. Area: 7836 μm^2
 Tot Area Examined: 23508 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:5.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	f	0.90	0.05	
34	1- 2	chr	m	4.60	1.70	
35		chr	m	1.10	0.40	
36		chr	f	1.00	0.05	
37		chr	f	3.00	0.05	
38		chr	m	1.70	0.80	
39		chr	f	0.60	0.05	
40		chr	f	1.20	0.09	
41		chr	b	0.80	0.10	
42		chr	m	5.80	3.20	
43		chr	m	1.20	0.40	
44		chr	m	3.00	1.80	
45		chr	m	1.50	0.40	
46		chr	m	5.00	3.10	
47		chr	f	2.00	0.05	
48		chr	f	0.60	0.05	
49		amo	m	2.90	1.00	
50		chr	m	4.00	1.00	
51		chr	f	2.10	0.05	
52		chr	m	3.50	2.00	
53		chr	f	0.80	0.05	
54		chr	m	2.00	0.80	
55		chr	f	0.70	0.05	
56		chr	m	1.50	1.00	
57		chr	m	1.70	0.80	
58		chr	b	1.50	0.20	
59		chr	f	1.60	0.05	
60		chr	f	3.00	0.09	
61		chr	m	1.20	0.45	
62		chr	m	1.50	1.00	
63		amo	f	7.70	0.25	
64		chr	f	1.00	0.02	
65		chr	f	0.90	0.05	
66		chr	m	2.60	0.40	
67		chr	f	1.60	0.05	
68		chr	m	3.00	2.30	
69		chr	f	1.70	0.05	
70	2- 1	chr	m	1.60	0.40	
71		chr	m	2.20	1.30	

Client:	RICHARD SCRUGGS	Sample Volume:	40	1
Sample ID:	4P IWA	Filter Type:	47MM Plastic	
MAS Log Number:	M6368-4	Filter Area:	1.34E+09	μm2
Sample Received:	05/19/91	Grid Openings:	3	
Sample Due Date:	05/24/91	Grids Examined:	2	
Type Analysis:	AIR	Avg Grid Sq. Area:	7836	μm2
Microscopist:	MS <i>Richard R. White</i>	Tot Area Examined:	23508	μm2
Reviewed by:	<i>Richard R. White</i>	Screen Mag:	20000X	
Client Proj/ref:	KAYLO EXPERIMENT	Dilution Factor:	1:5.0	

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	m	2.60	2.30	
73		chr	f	0.60	0.05	
74		amo	f	5.20	0.20	
75		chr	f	4.00	0.05	
76		amo	f	12.80	0.30	
77		chr	f	2.10	0.05	
78		amo	m	5.70	3.00	
79		chr	m	4.60	3.00	
80		chr	f	0.80	0.05	
81		chr	f	2.10	0.05	
82		chr	m	2.50	0.60	
83		chr	f	0.70	0.05	
84		chr	c	49.00	12.00	
85		chr	m	3.00	0.80	
86		amo	m	3.00	0.80	
87		chr	m	7.90	3.00	
88		chr	m	1.80	1.80	
89		chr	m	1.10	0.40	
90		chr	m	4.40	3.00	
91		chr	f	2.00	0.05	
92		chr	m	2.00	0.80	
93		amo	f	12.00	0.60	
94		chr	m	2.60	1.10	
95		chr	m	5.00	3.60	
96		chr	m	2.60	1.00	
97		amo	f	2.00	0.40	
98		chr	m	2.00	0.80	

DUST SAMPLES



MATERIALS
ANALYTICAL
SERVICES •

COPY

May 24, 1991

Mr. Richard Scruggs
Richard F. Scruggs Law Firm, PA
P.O. Drawer 1425
Pascagoula, MS 90564

Dear Mr. Scruggs:

Enclosed are the analyses of the dust samples received at our facility on May 19, 1991. The samples were sent under your job/purchase order number: Kaylo Experiment, and were labelled:

1
2
3

Please call our office at your convenience should you have any questions concerning the analyses of your samples.

Sincerely,

William E. Longo, Ph.D.
President

WEL: lac
Enc.
Ref: M6369

CLIENT NAME: Richard Scruggs Law Firm

CLIENT JOB NAME: Kaylo Experiment

MAS JOB: M6369

MAS
SAMPLE
NUMBER

SUMMARY OF DUST SAMPLE LOCATIONS

2	Tin Can, placed on floor 10 feet from table where Kaylo is; Before, during and after cutting
3	Tin can, sealed blank

Summary of Results of Analyses by
Transmission Electron Microscopy, (TEM)

Client Job Number: Kaylo Experiment

MAS Job Number: M6369

<u>MAS Sample Number:</u>	<u>Number of Asbestos Structures Counted</u>	<u>Asbestos Concentration, Structures per Sq. Ft.</u>	<u>Asbestos Concentration, Structures per Sq. Cm.</u>
2	121	16.2 Billion	17.4 Million
3	0	N/A	N/A

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Area	49.2 sq cm
Sample ID:	2		0.053 sq ft
MAS Log Number:	M6369-2	Filter Type:	47MM Plastic
Sample Received:	05/19/91	Filter Area:	1.34E+09 μ m ²
Sample Due Date:	05/24/91	Grid Openings:	5
Type Analysis:	DUST	Grids Examined:	2
Microscopist:	<u>WS William Stark (RW)</u>	Avg Grid Sq. Area:	7533 μ m ²
Reviewed by:	<u>J. Kneen</u>	Tot Area Examined:	37665 μ m ²
Client Proj/ref:	KAYLO EXPERIMENT	Screen Mag:	20000X
		Dilution Factor:	1:200.0

	Area Examined		Structures/cm ²	
	< 5 μ m	≥ 5 μ m	< 5 μ m	≥ 5 μ m
No. Free Chrysotile Fibers:	65	4	9.369E+06	5.766E+05
No. of Chrysotile Bundles:	5	0	7.207E+05	0.000E+00
No. of Chrysotile Clusters:	0	1	0.000E+00	1.441E+05
No. of Chrysotile Matrices:	39	3	5.621E+06	4.324E+05
No. Free Amphibole Fibers:	2	0	2.883E+05	0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	2	0.000E+00	2.883E+05

Total Asbestos Structures/1 sq ft (All): 1.620E+10
Total Asbestos Structures/1 sq ft (≥5): 1.339E+09

Total Asbestos Structures/1 sq cm (All): 1.744E+07
Total Asbestos Structures/1 sq cm (≥5): 1.441E+06

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES, INC.

Page: 1 of 4

Client: RICHARD SCRUGGS
 Sample ID: 2
 MAS Log Number: M6369-2
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: DUST
 Microscopist: WS Williams, Sr. (R)
 Reviewed by: J. Lowe
 Client Proj/ref: KAYLO EXPERIMENT

Sample Area 49.2 sq cm
 0.053 sq ft
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 5
 Grids Examined: 2
 Avg Grid Sq. Area: 7533 μm^2
 Tot Area Examined: 37665 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:200.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
1	1- 1	chr	f	4.60	0.08	
2		chr	f	0.90	0.01	
3		chr	m	1.10	0.30	
4		chr	b	2.90	0.20	
5		chr	f	0.70	0.02	
6		chr	f	0.60	0.02	
7		chr	f	0.60	0.02	
8		chr	f	1.20	0.01	
9		chr	m	1.60	0.20	
10		chr	f	3.00	0.04	
11		chr	f	4.20	0.10	
12		chr	f	0.90	0.01	
13		chr	m	3.00	1.50	
14		chr	f	1.20	0.04	
15		chr	f	1.20	0.04	
16		chr	m	4.00	1.50	
17		chr	f	0.70	0.02	
18		chr	m	0.70	0.20	
19		chr	f	0.90	0.01	
20		chr	f	1.20	0.04	
21		chr	b	0.70	0.12	
22		chr	m	1.60	0.40	
23	1- 2	chr	f	1.50	0.04	
24		chr	m	3.00	2.00	
25		chr	f	0.80	0.02	
26		chr	m	1.90	0.30	
27		chr	m	1.20	0.20	
28		chr	f	1.00	0.02	
29		chr	m	2.00	0.60	
30		chr	m	5.80	1.20	
31		chr	f	18.00	0.08	
32		chr	b	2.40	0.10	

Types

r - Chrysotile
 amo - Amosite
 cro - Crocidolite
 non - Non-Asbestos

ant - Anthophyllite
 tre - Tremolite
 act - Actinolite

Structures

f - Fiber
 b - Bundle
 c - Cluster
 m - Matrices

Client:	RICHARD SCRUGGS	Sample Area	49.2 sq cm
Sample ID:	2		0.053 sq ft
MAS Log Number:	M6369-2	Filter Type:	47MM Plastic
Sample Received:	05/19/91	Filter Area:	1.34E+09 μm^2
Sample Due Date:	05/24/91	Grid Openings:	5
Type Analysis:	DUST	Grids Examined:	2
Microscopist:	WS <i>William Stark (CW)</i>	Avg Grid Sq. Area:	7533 μm^2
Reviewed by:	<i>J. Koser</i>	Tot Area Examined:	37665 μm^2
Client Proj/ref:	KAYLO EXPERIMENT	Screen Mag:	20000X
		Dilution Factor:	1:200.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
33		chr	b	2.50	0.15	
34		chr	m	5.40	2.50	
35		chr	m	1.90	0.60	
36		chr	f	1.20	0.05	
37		chr	f	2.00	0.06	
38		chr	f	2.40	0.08	
39		chr	m	1.00	0.60	
40	1- 3	chr	m	1.20	1.00	
41		chr	f	12.00	0.04	
42		chr	f	2.70	0.04	
43		chr	m	2.00	1.20	
44		chr	f	1.20	0.04	
45		chr	m	1.60	0.80	
46		chr	f	1.60	0.04	
47		amo	m	7.00	6.00	M31746
48		chr	f	0.80	0.04	
49		chr	m	3.00	2.00	
50		chr	f	2.00	0.04	
51		chr	f	3.00	0.02	
52		chr	f	1.90	0.02	
53		chr	m	1.00	0.80	
54		chr	f	0.70	0.02	
55		chr	f	3.60	0.04	
56		chr	m	3.80	2.20	
57		chr	b	1.60	1.00	
58		chr	f	0.90	0.02	
59		chr	f	1.10	0.02	
60		chr	f	0.60	0.01	
61		chr	f	0.90	0.02	
62		amo	m	5.00	4.50	
63		chr	f	0.60	0.06	
64		chr	f	0.60	0.06	
65		chr	c	10.00	0.40	
66		chr	f	0.80	0.02	
67	2- 1	chr	f	0.70	0.01	
68		chr	f	1.60	0.02	
69		chr	f	0.60	0.04	
70		chr	f	1.30	0.02	
71		chr	f	2.50	0.04	

Client: RICHARD SCRUGGS
 Sample ID: 2
 MAS Log Number: M6369-2
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: DUST
 Microscopist: WS Williams, D. L. (L.A.)
 Reviewed by: J. K. Krenn
 Client Proj/ref: KAYLO EXPERIMENT

Sample Area 49.2 sq cm
 0.053 sq ft
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 5
 Grids Examined: 2
 Avg Grid Sq. Area: 7533 μm^2
 Tot Area Examined: 37665 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:200.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
72		chr	f	1.60	0.04	
73		amo	f	1.00	0.15	
74		chr	f	0.50	0.01	
75		chr	f	0.60	0.01	
76		chr	m	2.80	1.30	
77		chr	f	2.00	0.02	
78		chr	f	0.70	0.03	
79		chr	f	8.00	0.02	
80		chr	m	1.60	0.80	
81		chr	m	3.00	0.20	
82		chr	m	1.80	1.50	
83		chr	f	0.90	0.01	
84		chr	f	0.90	0.02	
85		chr	f	2.00	0.02	
86		chr	m	1.20	1.00	
87		chr	m	1.80	1.50	
88		chr	m	3.60	0.60	
89		chr	m	2.00	1.20	
90		chr	f	0.70	0.02	
91		chr	f	0.80	0.01	
92		amo	f	1.00	0.20	
93	2- 2	chr	m	2.60	1.20	
94		chr	f	1.20	0.01	
95		chr	m	1.50	0.30	
96		chr	m	3.20	0.60	
97		chr	m	0.70	0.02	
98		chr	f	1.00	0.02	
99		chr	m	1.50	0.70	
100		chr	m	1.60	1.60	
101		chr	f	1.50	0.02	
102		chr	f	4.20	0.04	
103		chr	m	2.20	0.40	
104		chr	f	1.40	0.06	
105		chr	f	0.70	0.02	
106		chr	m	0.60	0.30	
107		chr	f	0.90	0.02	
108		chr	f	2.20	0.02	
109		chr	m	1.80	1.10	
110		chr	m	5.50	3.80	

Client: RICHARD SCRUGGS
 Sample ID: 2
 MAS Log Number: M6369-2
 Sample Received: 05/19/91
 Sample Due Date: 05/24/91
 Type Analysis: DUST
 Microscopist: WS Williams, Steb (Kas)
 Reviewed by: J. Krewa
 Client Proj/ref: KAYLO EXPERIMENT

Sample Area 49.2 sq cm
 0.053 sq ft
 Filter Type: 47MM Plastic
 Filter Area: 1.34E+09 μm^2
 Grid Openings: 5
 Grids Examined: 2
 Avg Grid Sq. Area: 7533 μm^2
 Tot Area Examined: 37665 μm^2
 Screen Mag: 20000X
 Dilution Factor: 1:200.0

Strc.	Grid Op	Type	Structure	Length Microns	Width Microns	Photo ID
111		chr	m	1.60	1.40	
112		chr	f	2.20	0.02	
113		chr	f	3.00	0.08	
114		chr	f	1.20	0.10	
115		chr	f	3.90	0.10	
116		chr	m	3.00	1.50	
117		chr	f	2.00	0.08	
118		chr	f	7.80	0.02	
119		chr	m	1.20	1.00	
120		chr	m	3.40	2.80	
121		chr	f	2.20	0.08	

MATERIALS ANALYTICAL SERVICES, INC.
3597 PARKWAY LANE, SUITE 250
NORCROSS, GEORGIA 30092
(404) 448-3200

05/24/91

TEM ASBESTOS ANALYSIS REPORT

Client:	RICHARD SCRUGGS	Sample Area	49.2 sq cm
Sample ID:	3		0.053 sq ft
MAS Log Number:	M6369-3	Filter Type:	47MM Plastic
Sample Received:	05/19/91	Filter Area:	1.34E+09 μ m ²
Sample Due Date:	05/24/91	Grid Openings:	10
Type Analysis:	Dust	Grids Examined:	2
Microscopist:	<u>RW Richard Scruggs</u>	Avg Grid Sq. Area:	8011 μ m ²
Reviewed by:	<u>J. Krenn</u>	Tot Area Examined:	80110 μ m ²
Client Proj/ref:	KAYLO EXPERIMENT	Screen Mag:	20000X
		Dilution Factor:	1:3.3

	Area Examined		Structures/cm ²	
	< 5 μ m	≥ 5 μ m	< 5 μ m	≥ 5 μ m
No. Free Chrysotile Fibers:	0	0	0.000E+00	0.000E+00
No. of Chrysotile Bundles:	0	0	0.000E+00	0.000E+00
No. of Chrysotile Clusters:	0	0	0.000E+00	0.000E+00
No. of Chrysotile Matrices:	0	0	0.000E+00	0.000E+00
 No. Free Amphibole Fibers:	 0	 0	 0.000E+00	 0.000E+00
No. of Amphibole Bundles:	0	0	0.000E+00	0.000E+00
No. of Amphibole Clusters:	0	0	0.000E+00	0.000E+00
No. of Amphibole Matrices:	0	0	0.000E+00	0.000E+00
 Total Asbestos Structures/1 sq ft (All):	 0.000E+00			
Total Asbestos Structures/1 sq ft (≥5):	0.000E+00			
 Total Asbestos Structures/1 sq cm (All):	 0.000E+00			
Total Asbestos Structures/1 sq cm (≥5):	0.000E+00			

Comments :

* The Analytical Sensitivity is calculated on the probability of analyzing one asbestos fiber or structure in the total area examined.

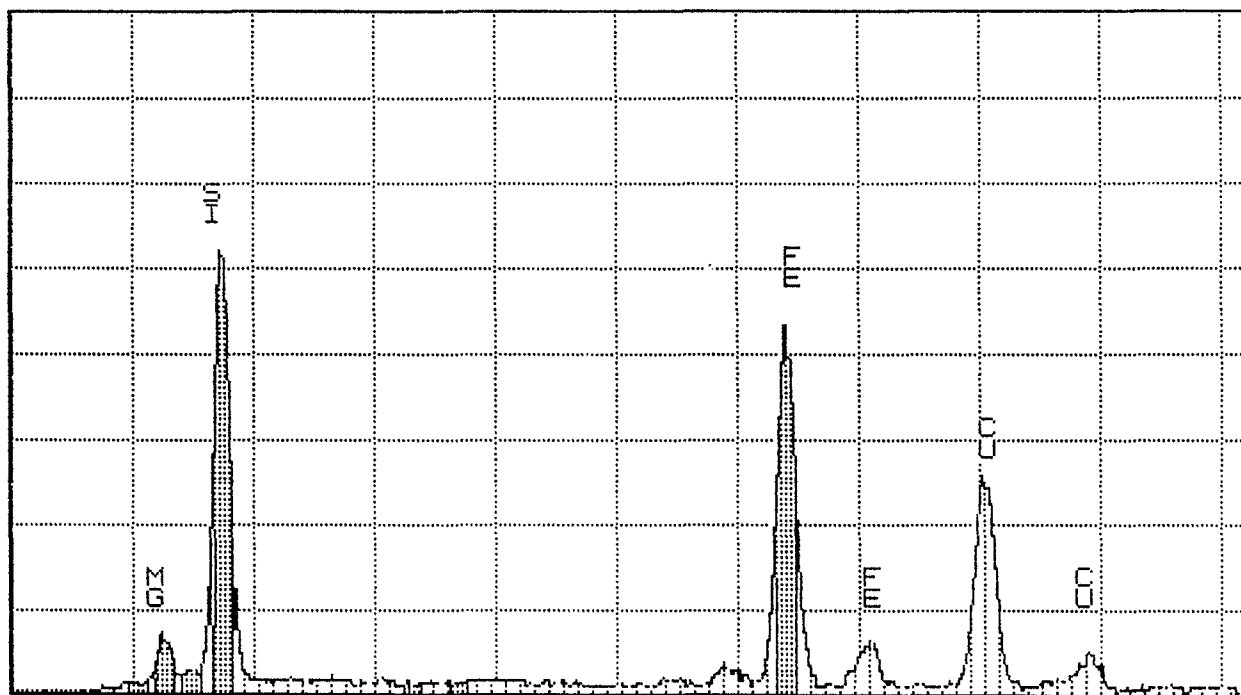
* 0.000 display = Below Analytical Sensitivity

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 09:29

Cursor: 0.000keV = 0

ROI (SIKα) 1.660: 1.810=2014



0.000

VFS = 256

10.240

76

M 6369-2; AMOSITE

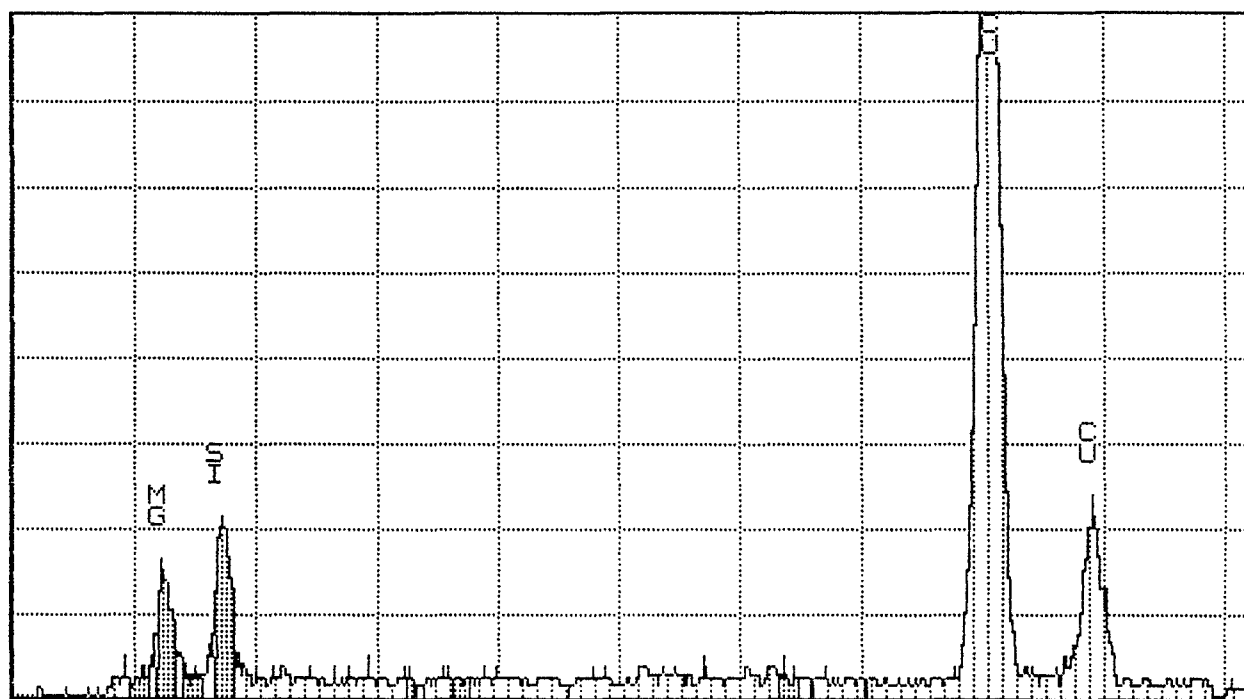
photo #
M41272

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 09:42

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=211



0.000

VFS = 64

10.240

92

M 6369-2; CHRYSOTILE

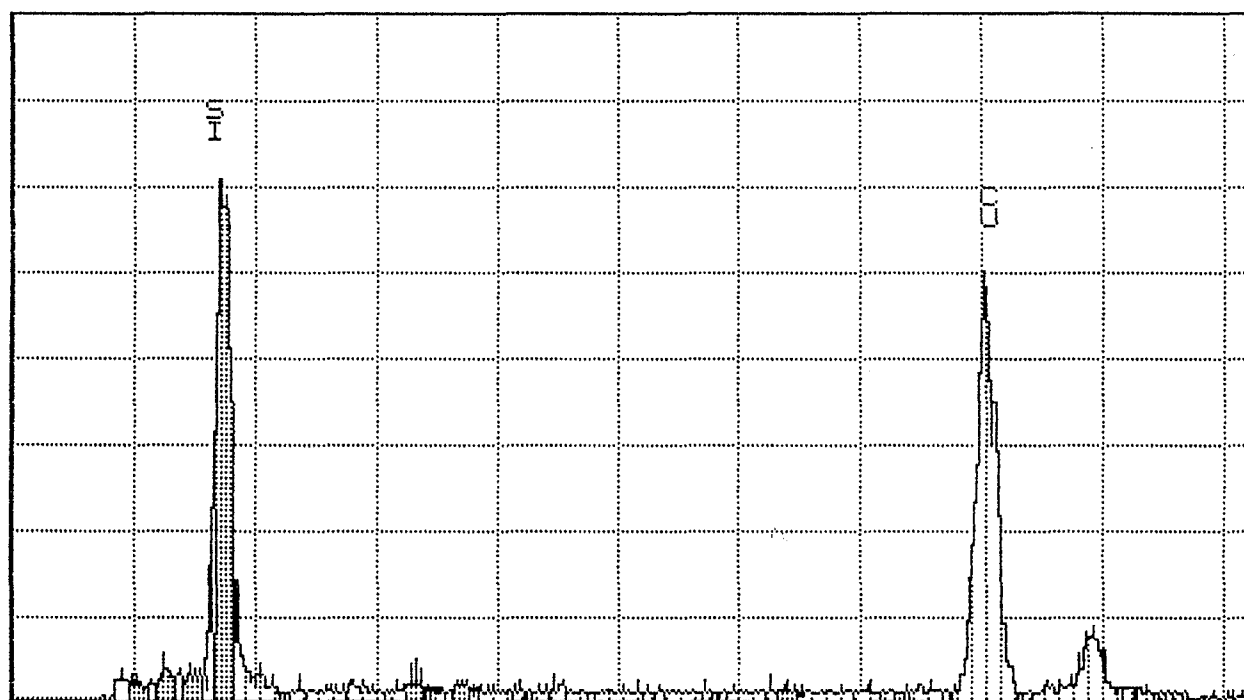
photo #
m41272

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 09:44

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=1194



0.000

VFS = 128

10.240

30

M 6369-2; MATRIX MATERIAL

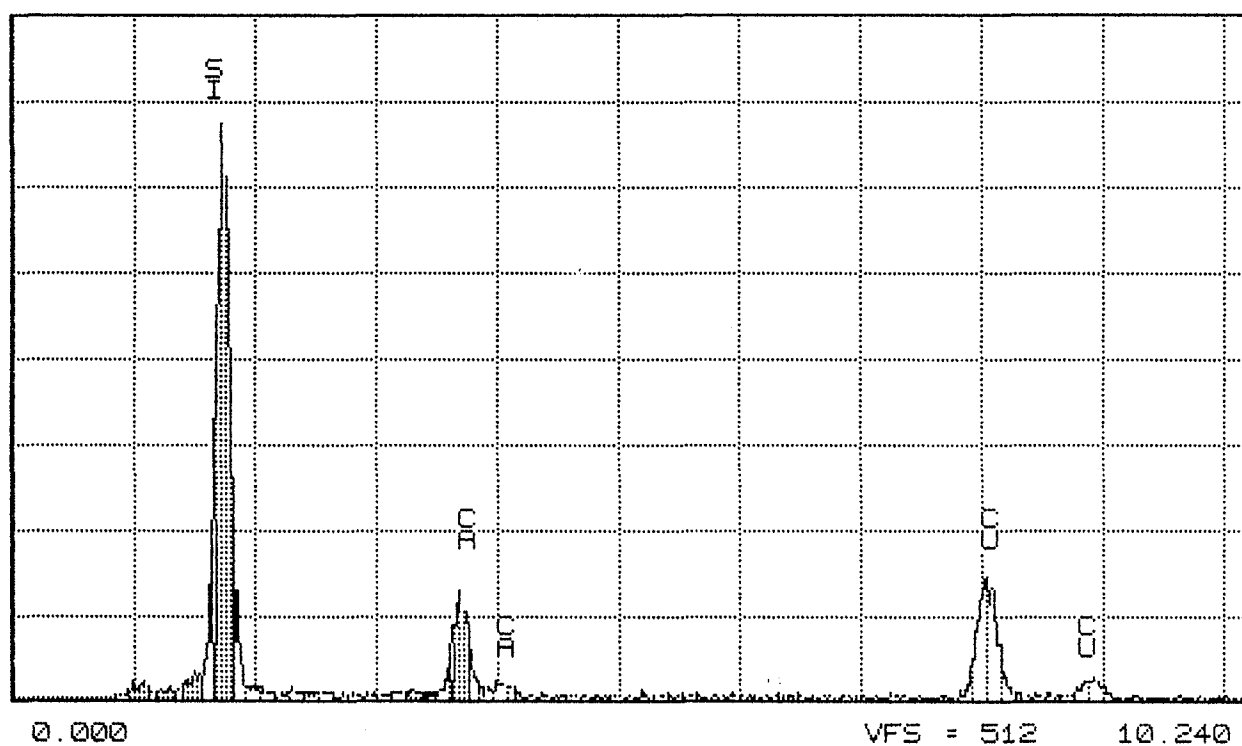
photo #
m 41272

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 09:47

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=4760



0.000

VFS = 512

10.240

24

M 6369-2; MATRIX MATERIAL

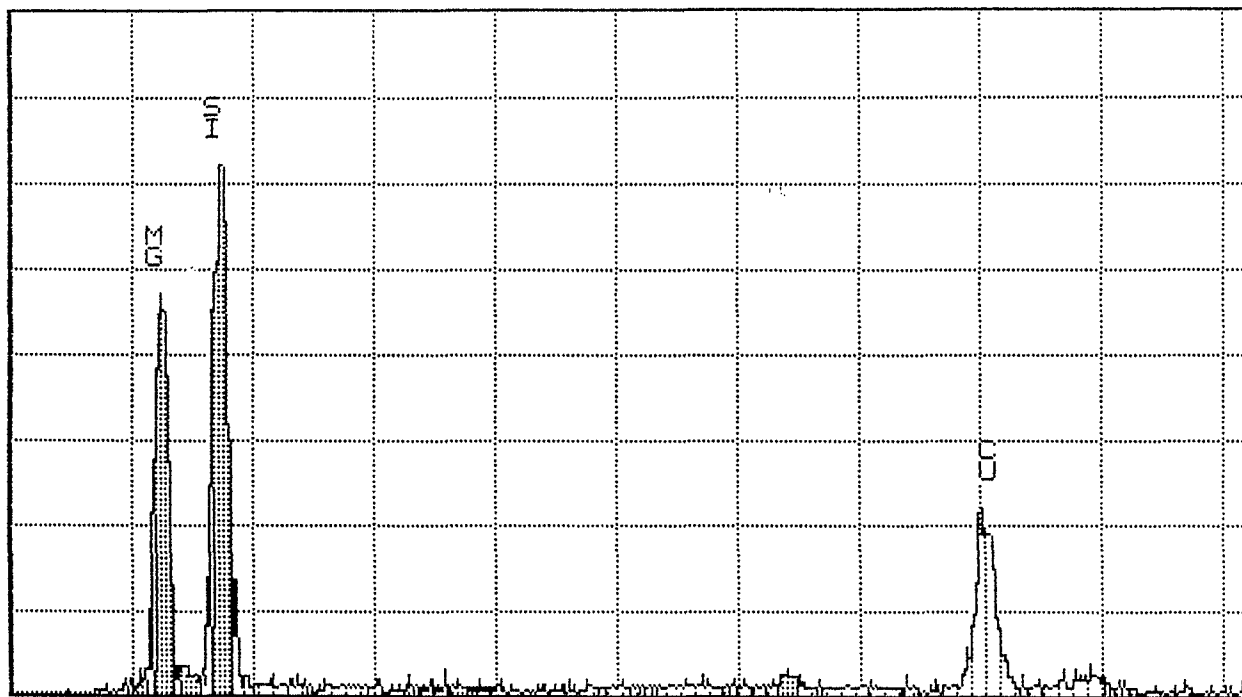
photo #
m 41272

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 09:56

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=1188



0.000

VFS = 128

10.240

32

M 6369-2; CHRYSOTILE

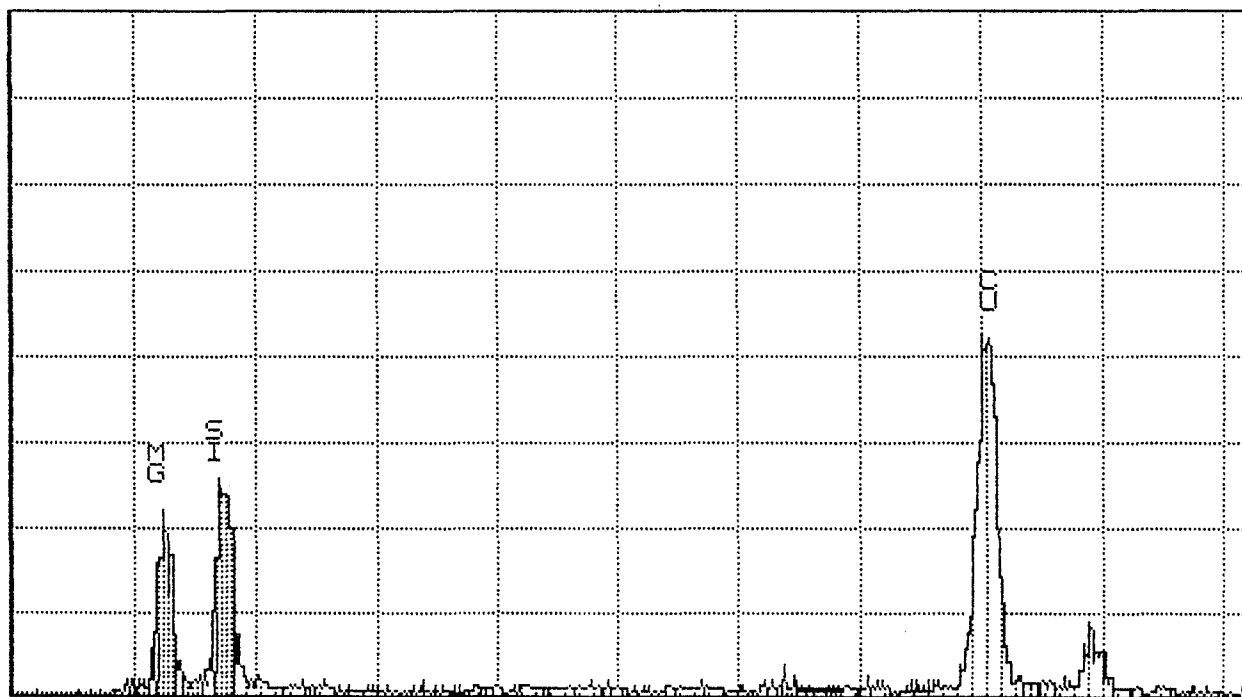
photo #
m4 1274

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 09:57

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=517



0.000

VFS = 128

10.240

39

M 6369-2; CHRYSOTILE

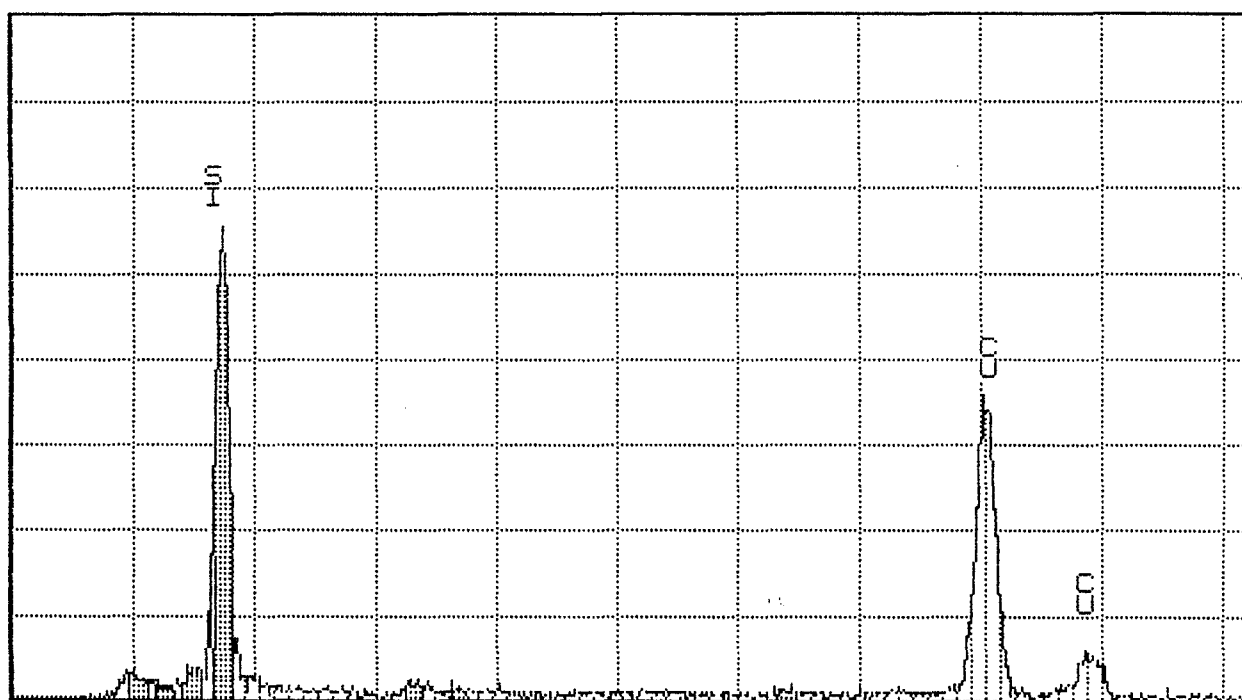
photo #
m 41275

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 09:59

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=2029



0.000

VFS = 256

10.240

39

M 6369-2; MATRIX

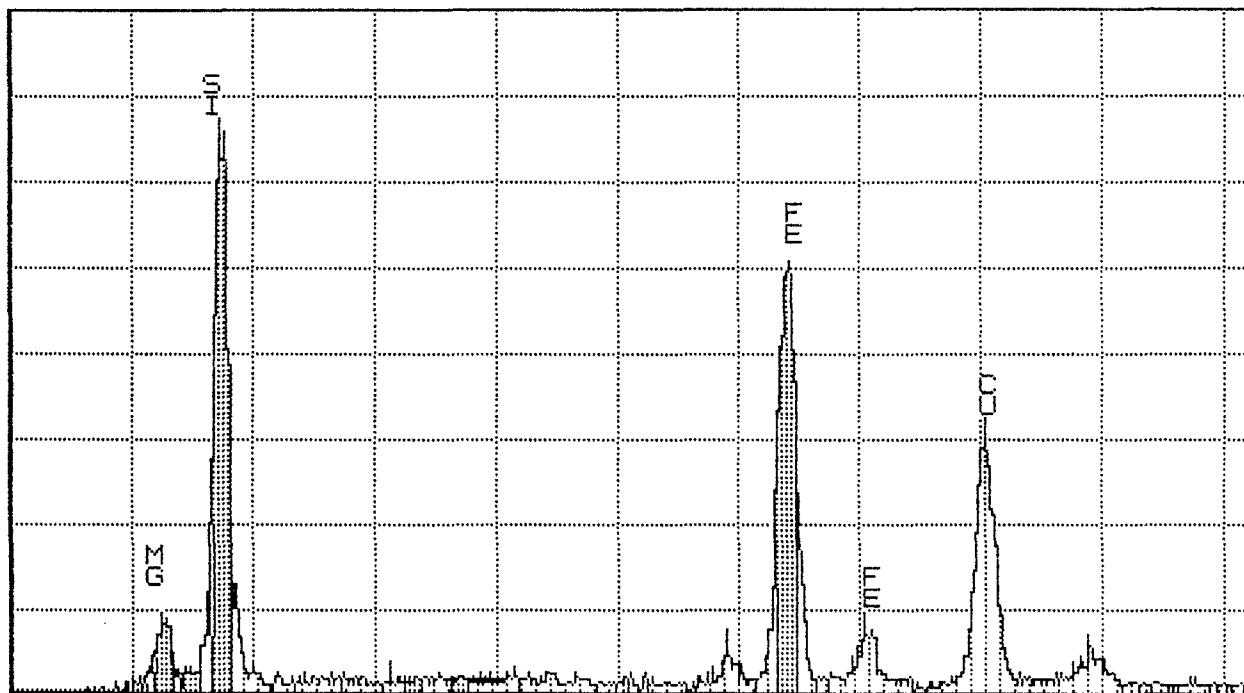
photo #
m 41275

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 10:27

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=1243



0.000

VFS = 128

10.240

40

M 6366-7; AMOSITE

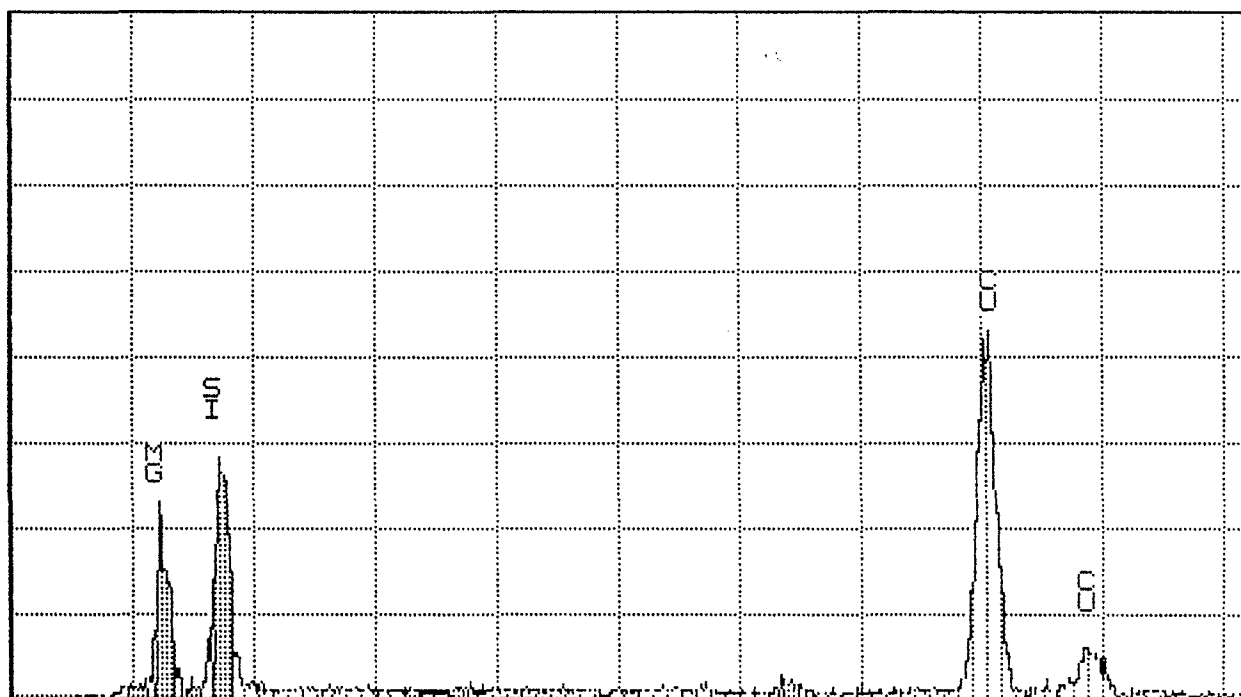
photo #
M 41276

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 10:32

Cursor: 0.000keV = 0

ROI (SIK α) 1.650: 1.810=1046



0.000

VFS = 256

10.240

55

M 6366-7; CHRYSOTILE

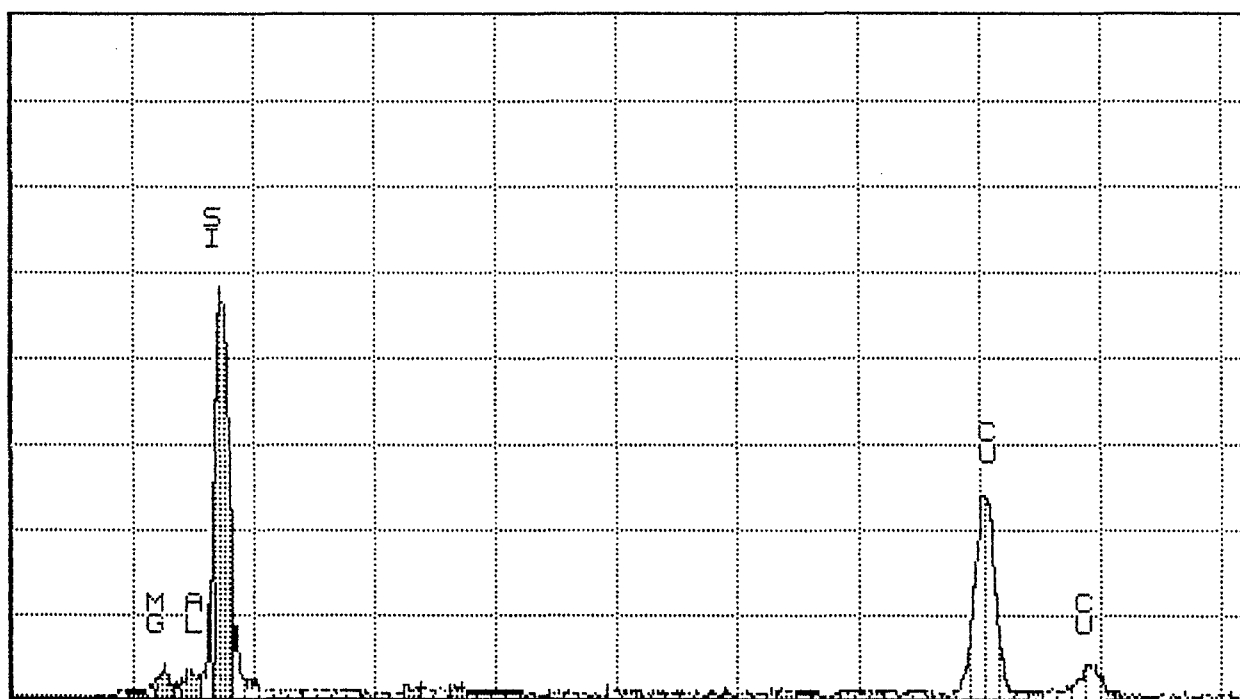
photo #
m 41277

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 10:33

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=3688



0.000

VFS = 512

10.240

35

M 6366-7; MATRIX

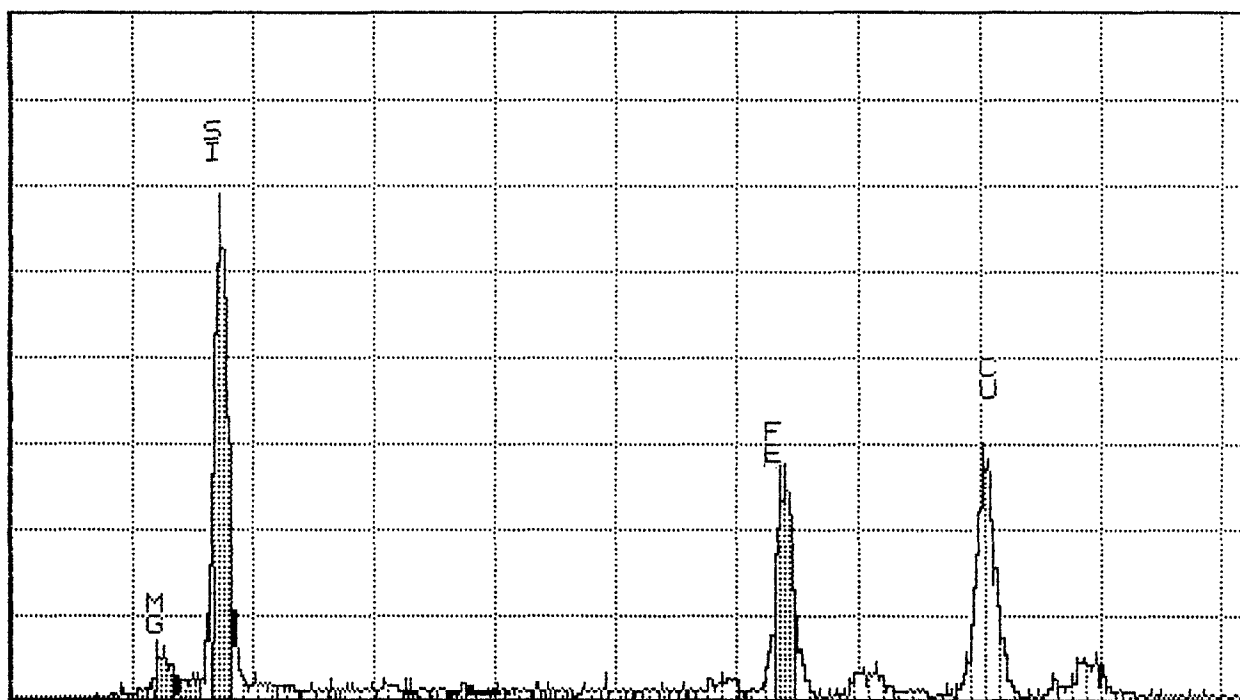
photo #
m41277

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 10:39

Cursor: 0.000keV = 0

ROI (SIKα) 1.660: 1.810=1033



0.000

VFS = 128

10.240

41

M 6366-7; AMOSITE IN MATRIX

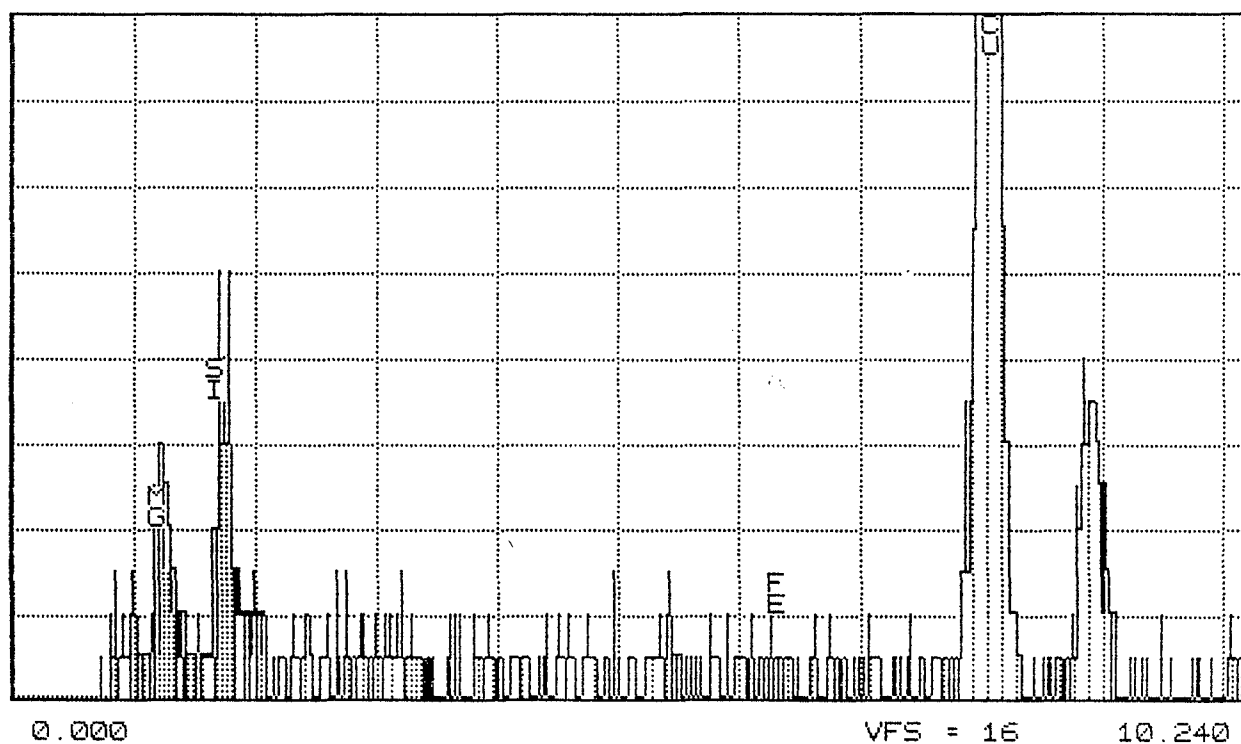
photo #
m 41278

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 10:42

Cursor: 0.000keV = 0

ROI (SIKα) 1.660: 1.810=103



0.000

VFS = 16

10.240

104

M 6366-7; CHRYSOTILE IN MATRIX

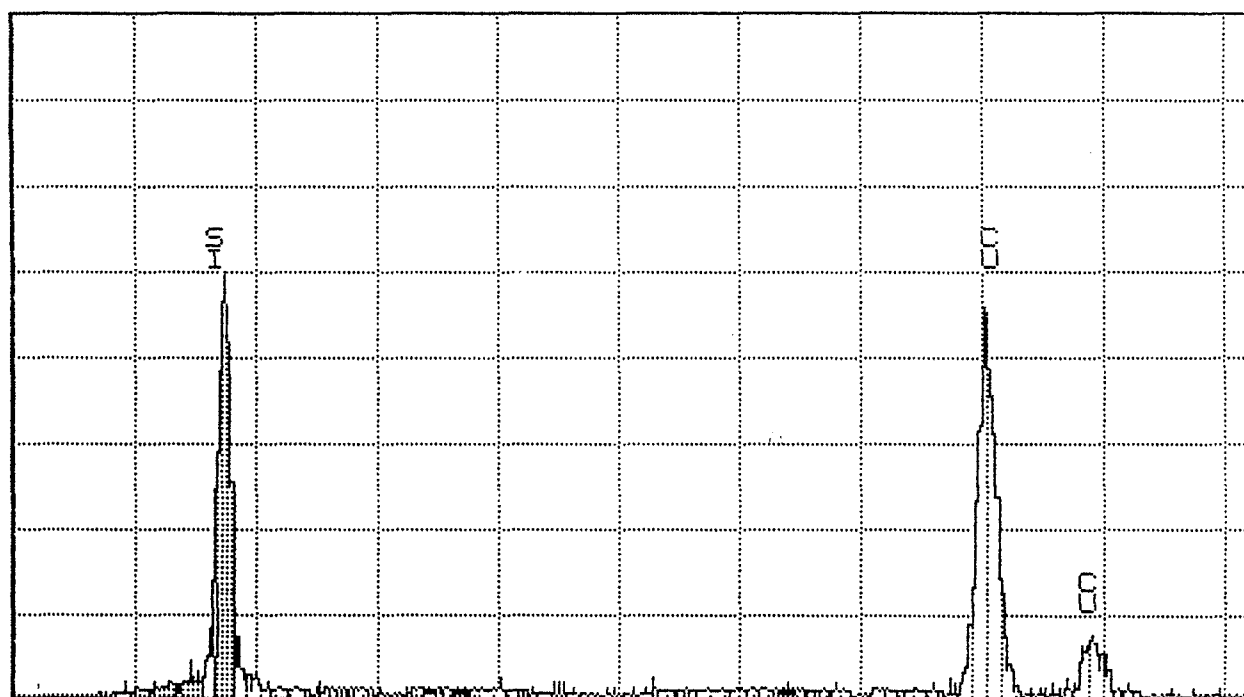
photo #
m 41278

MATERIALS ANALYTICAL SERVICES

SUN 26-MAY-91 10:37

Cursor: 0.000keV = 0

ROI (SIK α) 1.660: 1.810=854



0.000

VFS = 128

10.240

29

M 6366-7; MATRIX

photo #
m4r278

M.A.S. INC.
M41272 100.0KV X5000

1µm

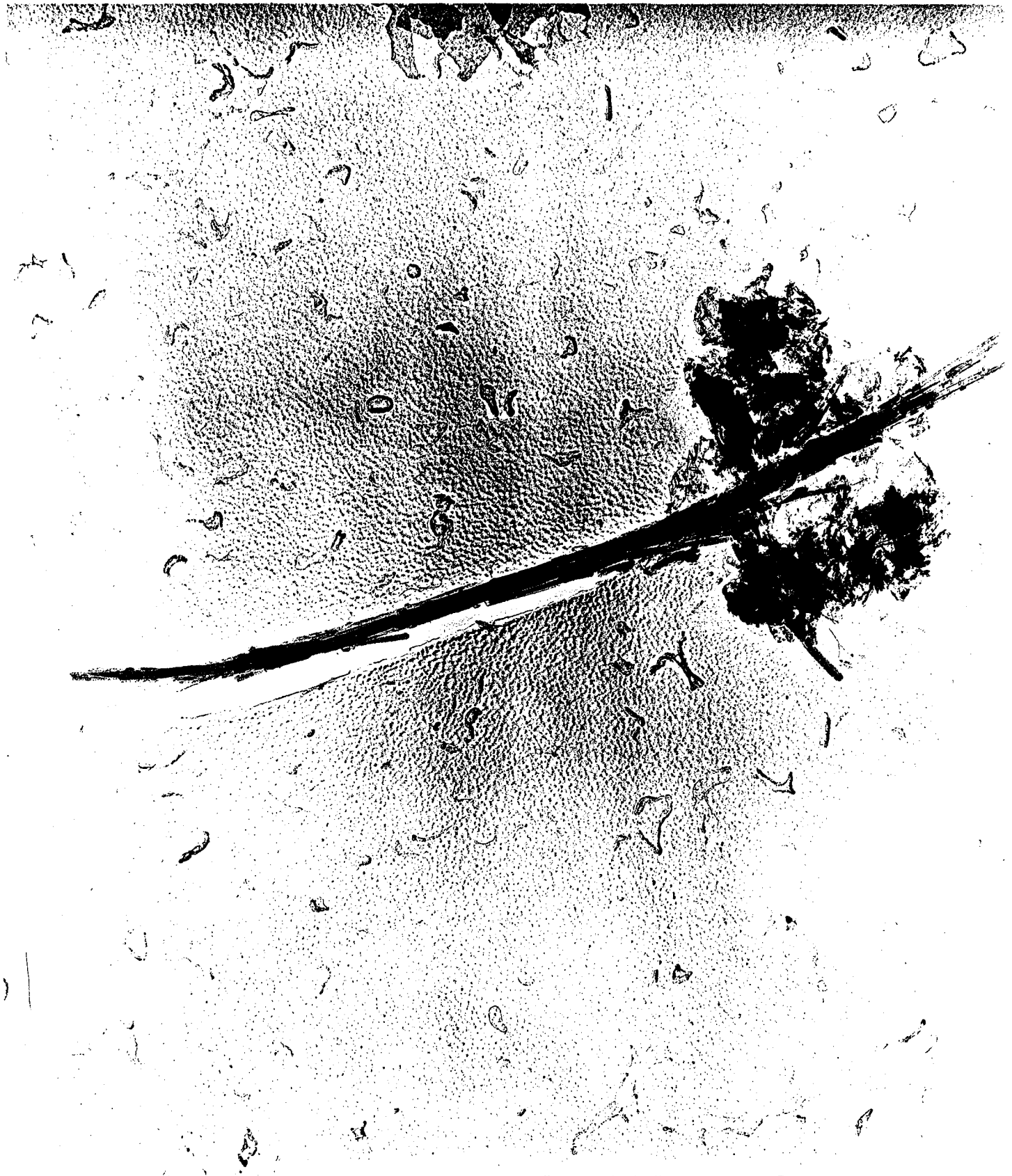


M.A.S. INC.
M41273 100.0KV X25K 200nm

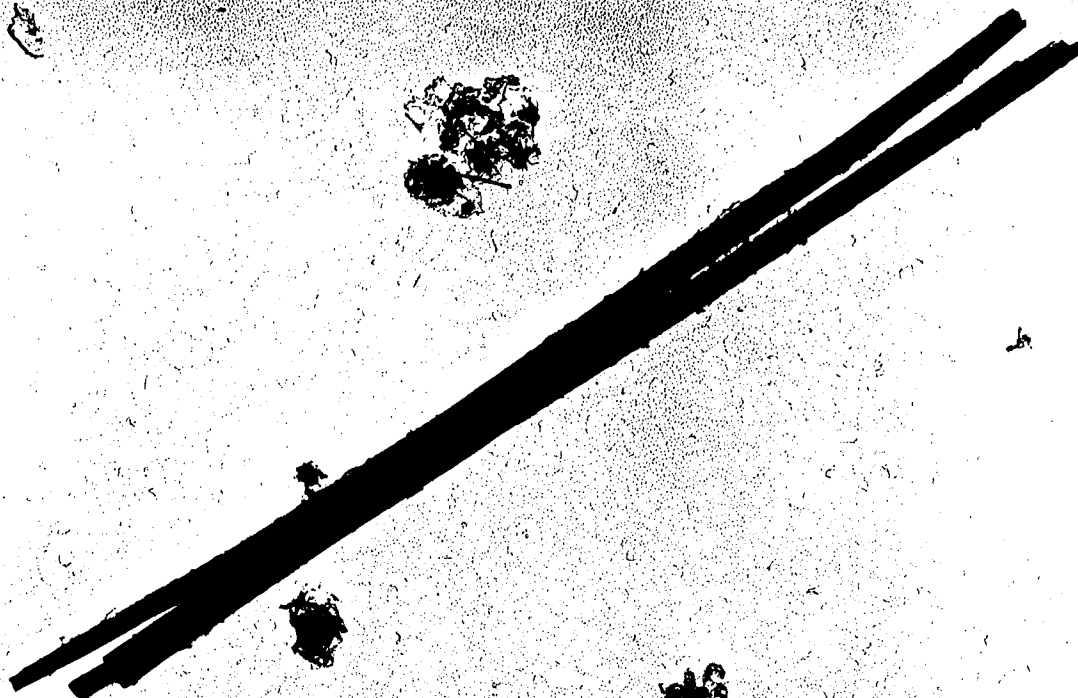


M.A.S. INC.
M41274 100.0KV X6000

1µm



N.A.S. INC.
M41275 100.0KV X10K 500nm

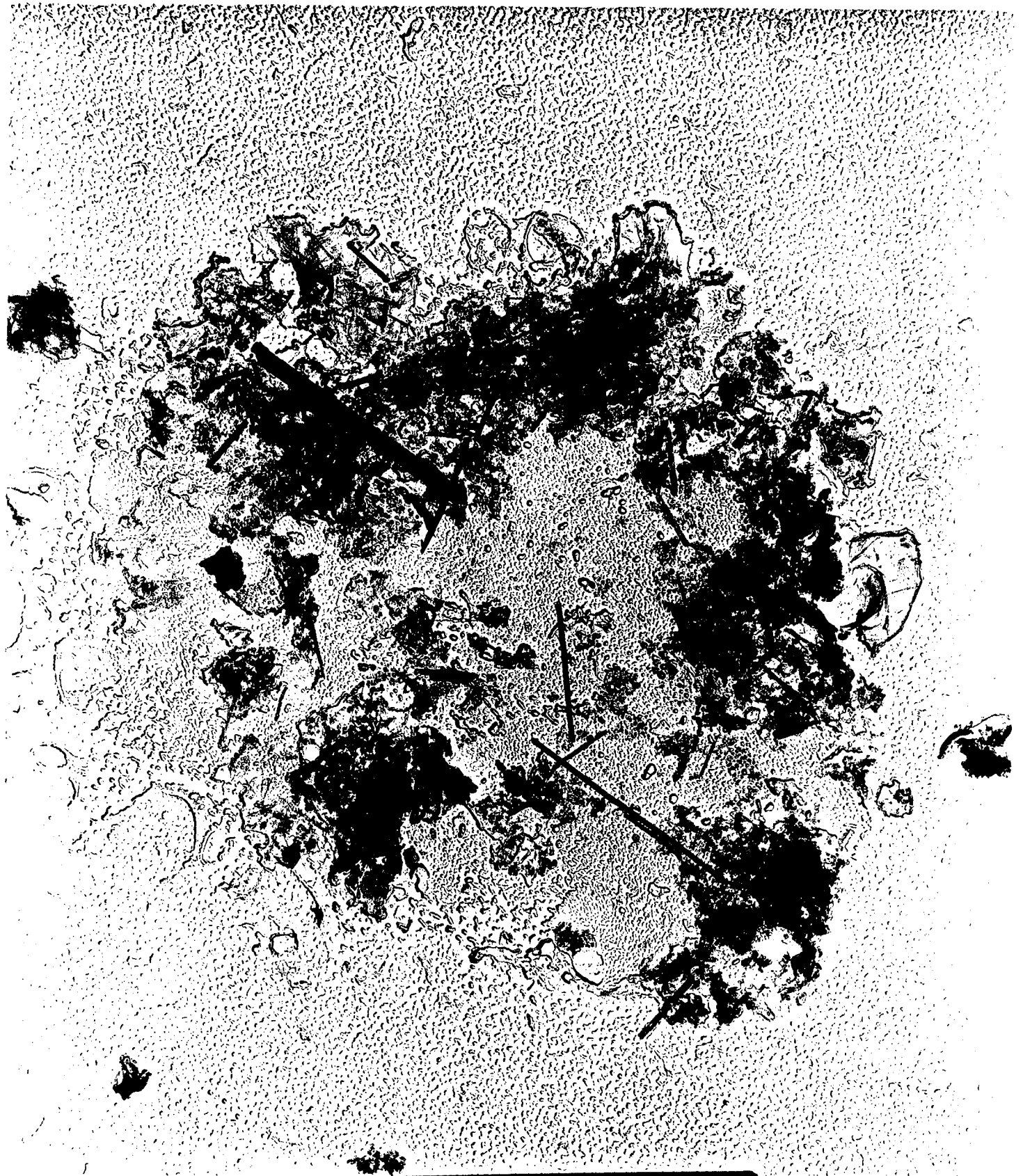


M.A.S. INC.
M41276 100.0KV X2500 2µm



M.A.S. INC.
M41277 100.0KV 8X6000

1Pm



M.A.S. INC.
M41278 100.0KV X7500 1µm