

UC 4346



INTERNAL CORRESPONDENCE

PLAINTIFF'S EXHIBIT

UC-4346

METALS DIVISION

• P.O. BOX 579 - 4625 ROYAL AVE., NIAGARA FALLS, NEW YORK 14302

To (Name) Mr. B. L. Ingalls
Division UCC-Metals Division
Location Niagara Falls, New York

Date July 21, 1981
Originating Dept. "Calidria" Asbestos

Answering letter date

Copy to Messrs.
R. E. Byrne, Jr.
D. C. Kleber
W. L. Murphy
J. L. Myers
H. B. Rhodes
File

Subject Airborne Asbestos Counts
for UCC-Niagara Falls, Bldg. #169

Enclosed is the report concerning the asbestos air monitorings conducted in Bldg. #169. As the report outlines, four environmental samples were taken which include the pilot plant production, storage and general work areas. Time-weighted averages have been calculated for each location.

Please let me know if there is anything further you need on this.

F. L. Smith
F. L. Smith / dal

FLS:dal
Enclosure

X410650

AIRBORNE ASBESTOS COUNTS

for

**Union Carbide Corporation
Niagara Falls, New York
Bldg. #169**

Date Sampled: June 25, 1981

Date Reported: July 20, 1981

**Samples Collected By: F. L. Smith
Union Carbide Corporation**

**Samples Analyzed By: F. L. Smith
Union Carbide Corporation**

**Reported By: F. L. Smith
Union Carbide Corporation**

**Union Carbide Corporation
Metals Division
Niagara Falls, New York**

X410651

OBJECTIVE:

To determine airborne asbestos fiber concentrations within a production area containing an asbestos pilot plant operation. Production of asbestos products in this area had last been conducted in 1975.

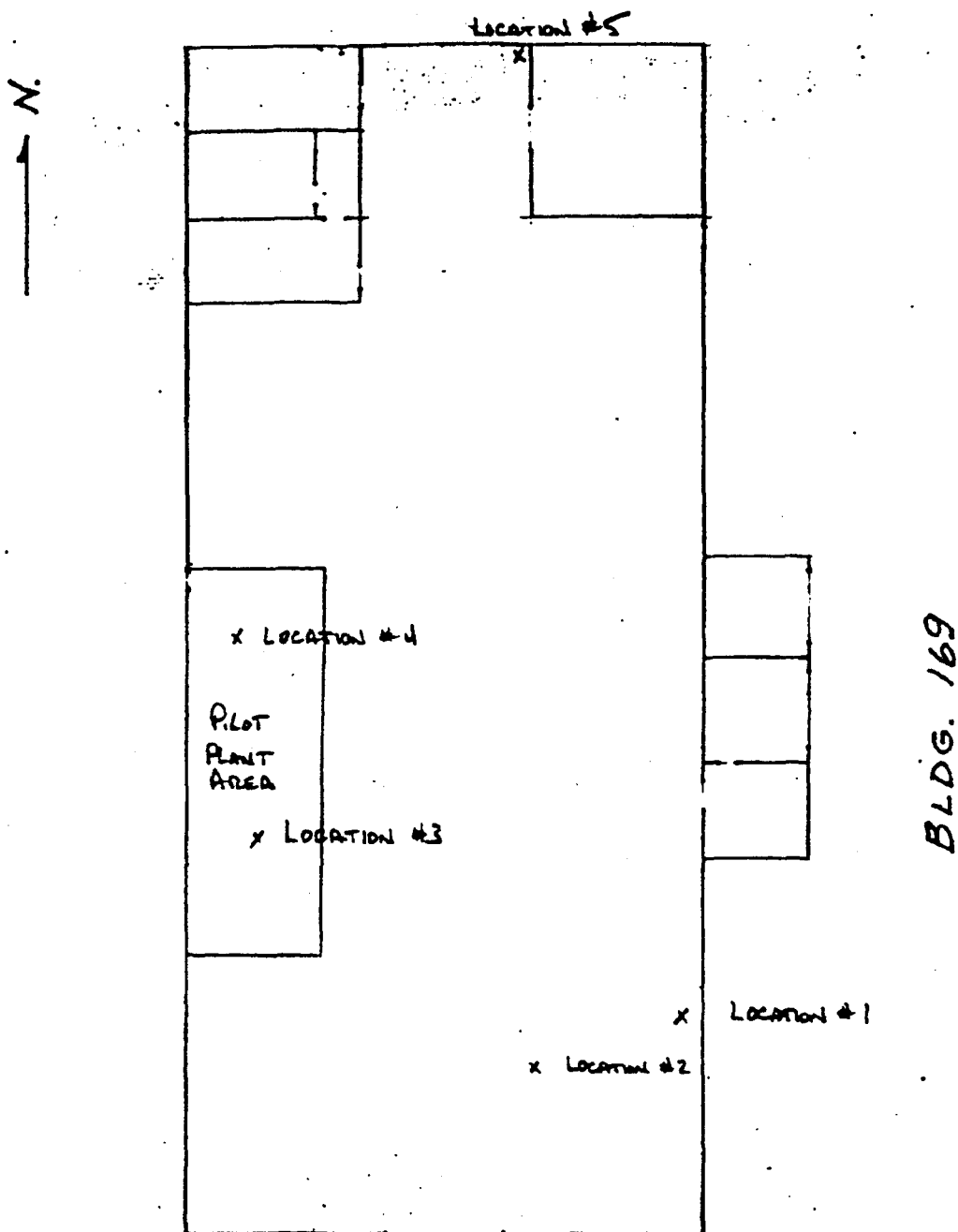
DESCRIPTION OF OPERATION:

Five environmental samples were obtained in Building #169 at the pilot plant location and within the general work and storage areas. Sampling was conducted during sample preparation activities (not concerning asbestos) on a normal work day for eight hours.

Sample locations are found on Figure 1.

X410652

FIGURE #1



SAMPLE EQUIPMENT AND TEST PROCEDURES

Sampling and dust counting are carried out in accordance with OSHA Regulation 1910.1001, based on NIOSH Analytical Method P&CAM 239 and OSHA methods; reference - Occupational Safety and Health Administration Methods, W. C. Dixon, pp 431, NBS special publication No. 506, U.S. Department of Commerce, November 1978.

Battery-powered air pumps (M.S.A. type), calibrated to 2 liters per minute, are used to collect personal breathing zone and environmental samples on Millipore membrane filters of 0.8 micron porosity. Fiber counting is performed on a Nikon phase contrast microscope at 400X utilizing a Porton reticle for sizing and field definition.

Two results have been reported for each sample - they are:

1. Chrysotile Asbestos - All fibers having an aspect ratio ≥ 3 and a length $> 5\mu$ that are in the operator's judgement, chrysotile. In the event of doubt or the absence of further information, any fiber having the above physical dimensions is counted as chrysotile.
2. Possible Amphibole Asbestos - All amphibole asbestos fibers having an aspect ratio ≥ 3 and a length $> 5\mu$. In the event of doubt or the absence of further information, any fiber of similar appearance and dimensions is counted as amphibole asbestos.

COMMENTS

The OSHA regulations permit a maximum limit of 2 fibers greater than 5 microns in length per cubic centimeter of air sampled on the basis of an 8-hour, time-weighted average (TWA). The formula $\frac{C_1T_1 + C_2T_2 + C_nT_n}{\Sigma T}$ describes the TWA where C= fiber count

in fibers/cc and T= time.

The regulations also stipulate a ceiling concentration of 10 fibers/cc greater than 5 microns which is not to be exceeded at any time.

LIMITS AND CONDITIONS

1. In compiling this report, Union Carbide followed procedures which it believes to be accurate and reliable but there may be other methods for evaluating asbestos fiber emissions which may produce different results.
2. The air monitoring results reported herein are not necessarily representative of the results which may be found at different locations or under different operating conditions.
3. Any use of or reliance upon the data or other information contained herein by yourself or any other party shall be without any recourse to or liability on the part of Union Carbide.
4. The breathing of asbestos dust may cause serious bodily harm and Union Carbide makes no warranty or guarantee that the results contained herein indicate safe levels of exposure. It is the responsibility of any user of asbestos or asbestos-containing product to ensure that safe handling procedures are employed and that applicable government regulations are complied with. Appropriate literature and other information concerning asbestos and health or regulations are available upon request.
5. Regardless of the results of these tests you should consider the advisability of further air monitoring.

TEST RESULTS

The details of sample collection and resultant fiber counts are listed in the attached table(s).

X410654

DATA SUMMARY
 Bldg. #169
 Union Carbide Corporation
 Niagara Falls, New York

Sample No.	Time	Minutes	Location	Chrysotile Asbestos >5 μ	
				Fiber/Field	Fiber/cc
C-42	on: 7:30A off: 11:30A	240	Environmental Sample #1- Located on third floor storage.	.02	<0.1
L-59	on: 11:30A off: 3:30P	240	Same as C-42.	.04	<0.1
	TWA Chrysotile	$\frac{4.08}{480}$	= < 0.1		
H-20	on: 7:31A off: 11:31A	240	Environmental Sample #2- Located in second floor laboratory.	.01	<0.1
L-71	on: 11:31A off: 3:31P	240	Same as H-20.	.015	<0.1
	TWA Chrysotile	$\frac{1.68}{480}$	= < 0.1		
L-55	on: 7:32A off: 11:32A	240	Environmental Sample #3- Located on main floor near portable bag packer.	.01	<0.1
A-81	on: 11:32A off: 3:32P	240	Same as L-55.	.02	<0.1
	TWA Chrysotile	$\frac{2.16}{480}$	= < 0.1		
A-89	on: 7:33A off: 11:33A	240	Environmental Sample #4- Located on Dryer feed deck.	.03	<0.1
P-40	on: 11:33A off: 3:33P	240	Same as A-89.	.015	<0.1
	TWA Chrysotile	$\frac{3.12}{480}$	= < 0.1		
L-33	on: 7:34A off: 11:34A	240	Environmental Sample #5- Located at south end of building.	.025	<0.1
L-72	on: 11:34A off: 3:34P	240	Same as L-33.	.02	<0.1
	TWA Chrysotile	$\frac{3.12}{480}$	= < 0.1		

X410655

AIRBORNE ASBESTOS COUNTS

for

**Union Carbide Corporation
Niagara Falls, New York
Bldg # 169**

**Date Sampled: June 25, 1981
Date Reported: June 30, 1981**

Samples Collected BY: ^{FLS}~~G. L. Dickson~~
Union Carbide Corporation

Samples Analyzed By: F. L. Smith, Jr.
Union Carbide Corporation

Reported By: ^{FLS}~~G. L. Dickson~~
Union Carbide Corporation

**Union Carbide Corporation
Metals Division
Royal Avenue
Niagara Falls, NY 14302**

X410656

OBJECTIVE:

To determine airborne asbestos fiber concentrations within a production area containing an asbestos pilot plant operation. Production of asbestos products in this area had last been conducted in 1975.

DESCRIPTION OF OPERATION:

Five environmental samples were obtained ⁱⁿ ~~on~~ building 169 at the pilot plant location and within the general work and storage areas. Sampling was conducted during sample preparation activities (not concerning asbestos) on a normal work day for eight hours.

Sample locations ^{ARE} ~~at~~ found on Figure 1.

X410657

DATA SUMMARY

Bldg # 169
Union Carbide Corporation
Niagara Falls, New York

CHRYSO TILE ASBESTOS
75µ

Sample No.	Time	Minutes	Location	Fiber/Field	Fiber/cc
C-42	on: 7:30A off: 11:30A	240	Environmental Sample #1 located on third floor storage.	.02	<0.1
L-59	on: 11:30A off: 3:30P	240	Same as C-42	.04	<0.1
H-20	on: 7:31A off: 11:31A	240	Environmental Sample #2 Located in Second floor laboratory	.01	<0.1
L-71	on: 11:31A off: 3:31P	240	Same as H-20	.015	<0.1
L-55	on: 7:32A off: 11:32PA	240	Environmental Sample #3 located on Main floor near portable bag packer	.01	<0.1
A-81	on: 11:32A off: 3:32P	240	Same as L-55	.02	<0.1
A-89	on: 7:33A off: 11:33PA	240	Environmental Sample #4 located on Dryer feed derk	.03	<0.1
P-40	on: 11:33A off: 3:33P	240	Same as A-89	.015	<0.1
L-33	on: 11:34A off: 11:34PA	240	Environmental Sample #5 located at south end of building	.025	<0.1
L-72	on: 11:34A off: 3:34P	240	Same as L-33	.02	<0.1

TWA CHRYSO TILE $\frac{4.05}{480} = <0.1$

TWA CHRYSO TILE $\frac{1.68}{480} = <0.1$

TWA CHRYSO TILE $\frac{2.16}{480} = <0.1$

TWA CHRYSO TILE $\frac{3.12}{480} = <0.1$

TWA CHRYSO TILE $\frac{3.12}{480} = <0.1$

X410658

Copy:

JIM

RRB

Bill Murphy

Aug 1 letter (in Aug 169)

HBR

Blain -

Enclosed is the report concerning the asbestos air monitorings conducted in Bldg 169. As the report outlines, four environmental samples were taken ~~which~~ and include the pilot plant production, storage and general work areas. Time weighted averages have been calculated for each location.

Please let me know if there is anything further you need on this.

X410659

ASBESTOS COUNT RECORD SHEET

SAMPLE NO. L-72 DATE 6/25/87 MICROSCOPIST JS

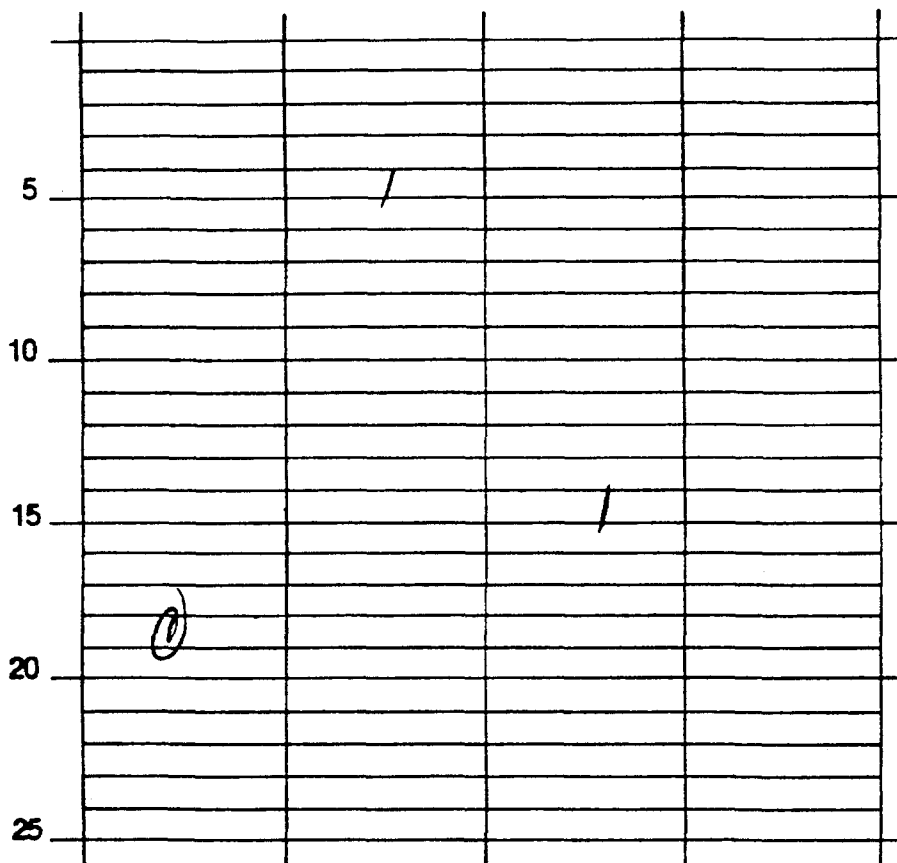
FLOW 2 TIME 240 VOLUME 480m

OPTICS Pc MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE 102 / 1.006 AMPHIBOLE 107 / 1.023 OTHER 1

COMMENTS:



672
SAMPLE NO. 6/25/87 JS
DATE INSPECTOR

F-10-0468
INST. ROTOMETER READING FLOW RATE (L/M) TIME
2

UCC Niagara Falls, N.Y.
COMPANY

Bldg 169
LOCATION

SAMPLE: AREA ☒ PERSONAL ☐

Snuck out of Bldg.

SAMPLE TIME:
TIME ON 11:54 ROTOMETER

TIME OFF ROTOMETER

DESCRIPTION OF OPERATION:

INDOORS ☒ VENTILATION

OUTDOORS ☐ WIND

OPERATION

static monitoring

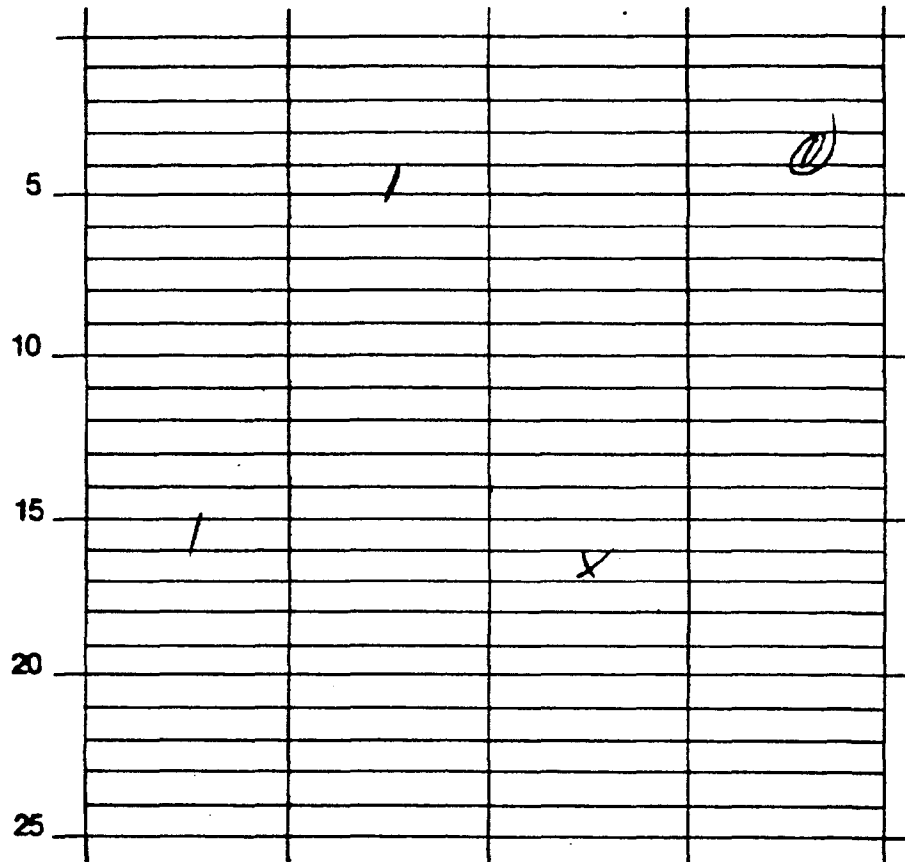
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. C-33 DATE 6/25/81 MICROSCOPIST JS
FLOW 2 TIME 240 VOLUME 480 ml
OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE 125 / .007 AMPHIBOLE .07 / .003 OTHER 1

COMMENTS:



X410662

L-53
SAMPLE NO. 6/25/87 DATE JS INSPECTOR
F10-0468
INST. ROTOMETER READING FLOW RATE (L/M) TIME
NCC Niagara Falls, N.Y.
COMPANY
Bldg 169
LOCATION
SAMPLE: AREA ☒ PERSONAL ☐
South end of Bldg
SAMPLE TIME:
TIME ON 7:34 ROTOMETER
TIME OFF 11:34 ROTOMETER
DESCRIPTION OF OPERATION:
INDOORS ☒ VENTILATION
OUTDOORS ☐ WIND
OPERATION
Static monitoring

X410663

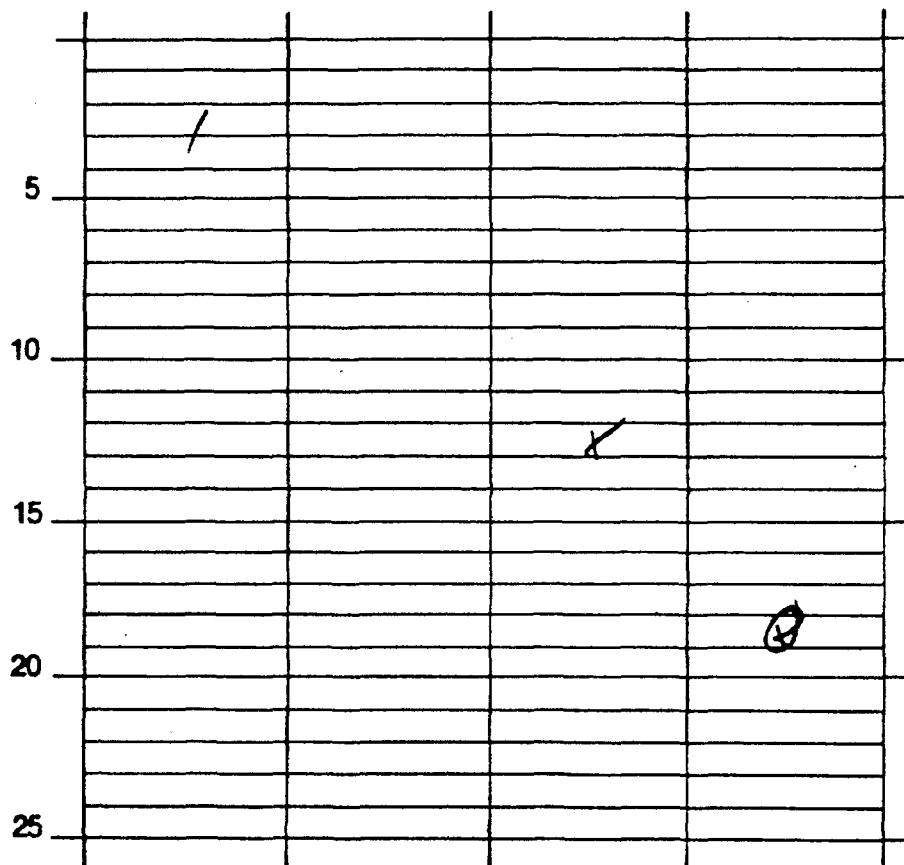
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. P40 DATE 6/25/87 MICROSCOPIST JS
 FLOW 2 TIME 2:40 VOLUME 485m
 OPTICS PC MAG. 400 FIELD AREA .0002

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE .015 / .004 AMPHIBOLE .005 / .001 OTHER /

COMMENTS:



X410E24

P-40 6/25/87 JS
SAMPLE NO. DATE INSPECTOR

03249 2
INST. ROTOMETER READING FLOW RATE (L/M) TIME

UCC Niagara Falls, N.Y.
COMPANY

Bldg 169
LOCATION

SAMPLE: AREA ☒ PERSONAL ☐

Pages feed Deck

SAMPLE TIME:
TIME ON 11:22 ROTOMETER _____

TIME OFF _____ ROTOMETER _____

DESCRIPTION OF OPERATION:

INDOORS ☒ VENTILATION _____

OUTDOORS ☐ WIND _____

OPERATION _____

Static monitoring

X410665

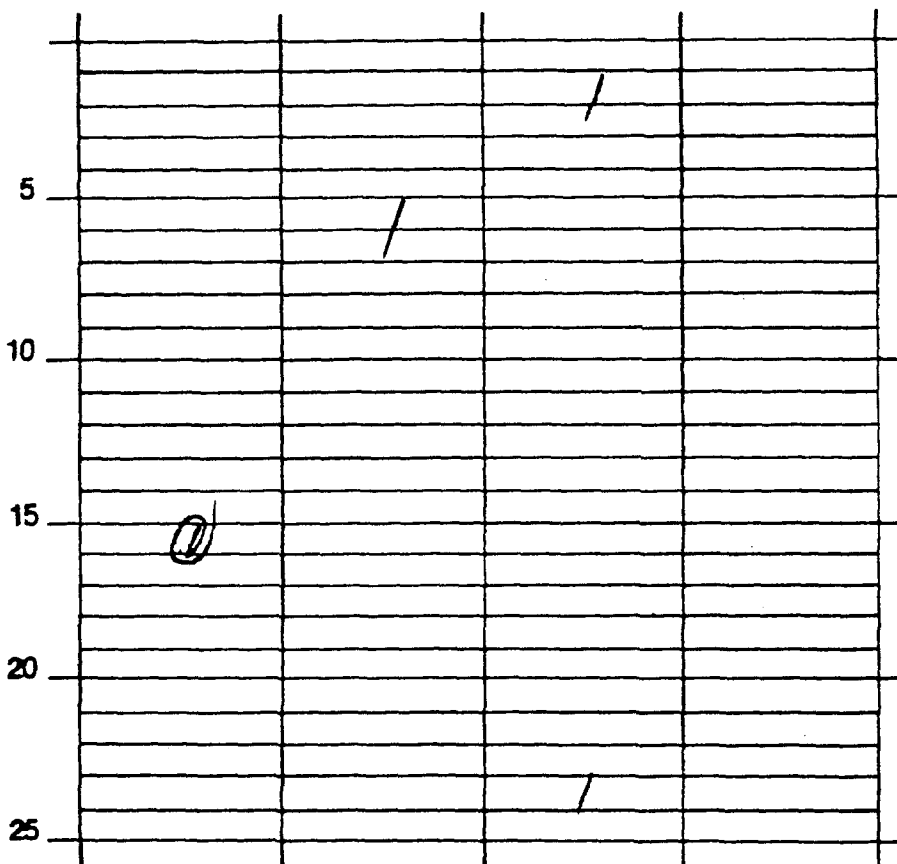
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A89 DATE 6/25/87 MICROSCOPIST JS
FLOW 2 TIME 240 VOLUME 48 ml
OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOLE 23 / .009 AMPHIBOLE 21 / .003 OTHER 1

COMMENTS:



X410666

A-89 6/25/87 JS
SAMPLE NO. DATE INSPECTOR

03249 2
INST. ROTOMETER READING FLOW RATE (L/M) TIME

UCC Niagara Falls, N.Y.
COMPANY

Bldg 169
LOCATION

SAMPLE: AREA ☒ PERSONAL ☐

Dryer feed Deck

SAMPLE TIME:
TIME ON 7:33 ROTOMETER _____

TIME OFF 11:33 ROTOMETER _____

DESCRIPTION OF OPERATION:
INDOORS ☒ VENTILATION _____

OUTDOORS ☐ WIND _____

OPERATION Static monitoring

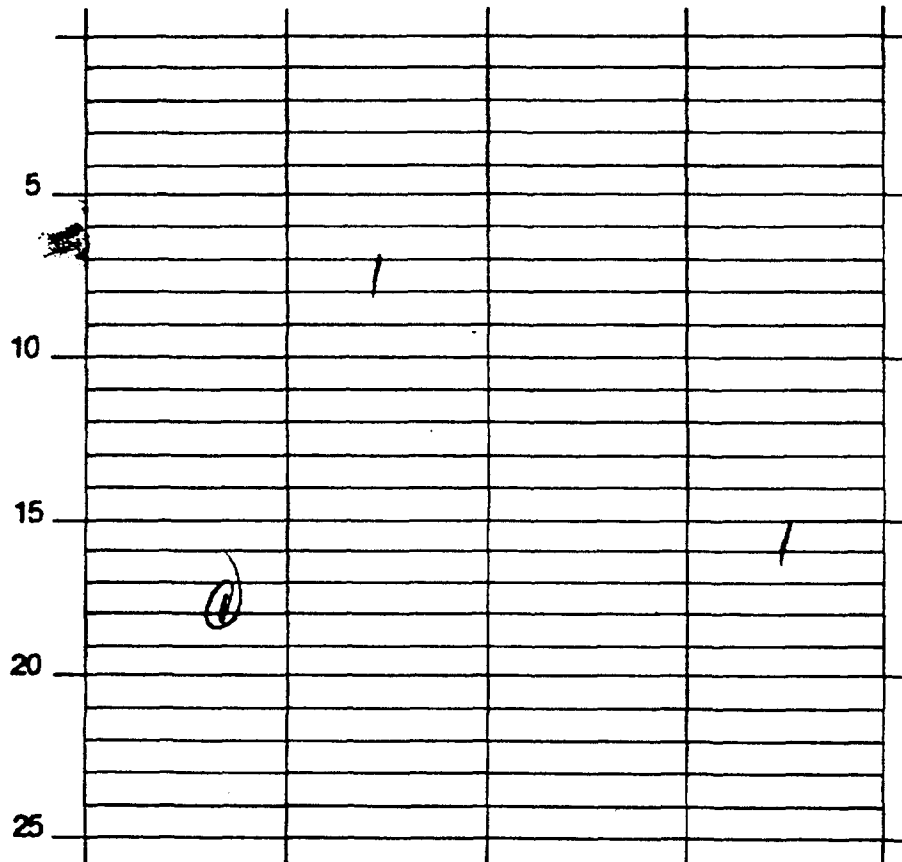
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A81 DATE 6/25/87 MICROSCOPIST JS
FLOW 2 TIME 240 VOLUME 4 PM
OPTICS PC MAG. 400 FIELD AREA 2062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE .02 / 1006 AMPHIBOLE .01 / 2062 OTHER /

COMMENTS:



X410668

6-87 6/25/87 JS
SAMPLE NO. DATE INSPECTOR
602-1420
INST. ROTOMETER READING FLOW RATE (L/M) TIME
4CC Niagara Falls, N.Y.
COMPANY
Bldg 169
LOCATION
SAMPLE: AREA ☒ PERSONAL ☐

main floor at bag packer

SAMPLE TIME:
TIME ON 11:32 ROTOMETER _____
TIME OFF _____ ROTOMETER _____

DESCRIPTION OF OPERATION:
INDOORS ☒ VENTILATION _____
OUTDOORS ☐ WIND _____

OPERATION Static monitoring

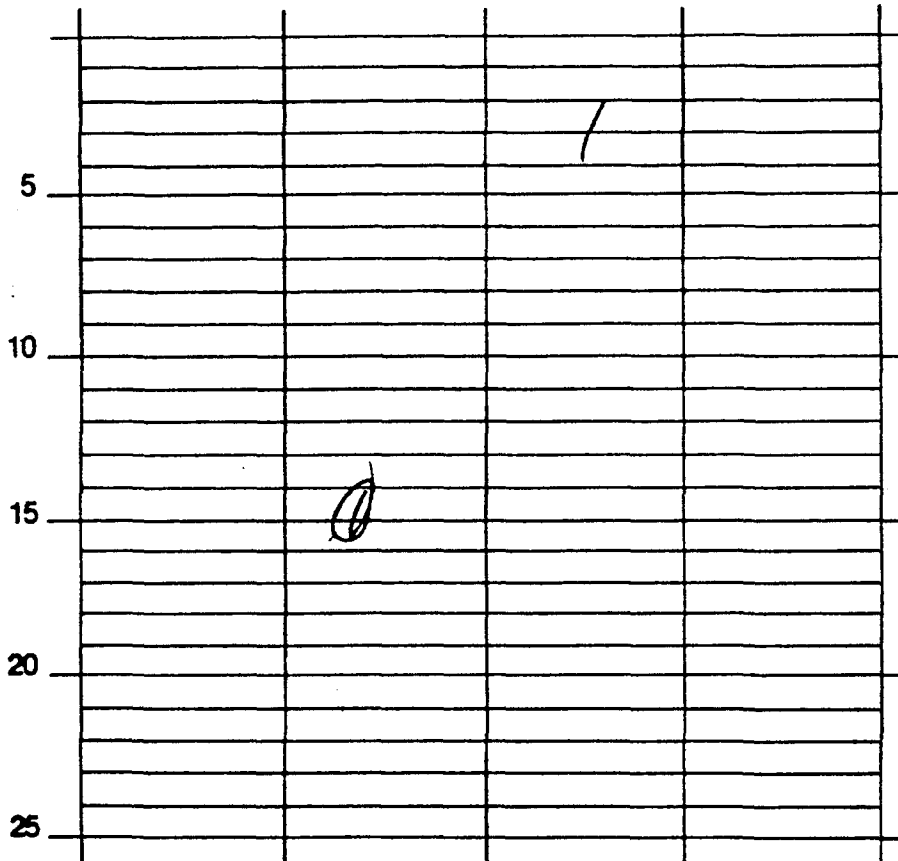
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. L-95 DATE 6/25/91 MICROSCOPIST JS
FLOW 2 TIME 240 VOLUME .0062
OPTICS Pc MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOTILE 21 / .003 AMPHIBOLE .07 / .003 OTHER /

COMMENTS:



655
SAMPLE NO. 6/25/87 DATE ZS INSPECTOR
E-02-1470
INST. ROTOMETER READING FLOW RATE (L/M) TIME
COMPANY UCC Niagara Falls, NY
LOCATION Bldg 169
SAMPLE: AREA ☒ PERSONAL ☐

man from at bag pulser

SAMPLE TIME:
TIME ON 7:32 ROTOMETER _____
TIME OFF 11:32 ROTOMETER _____

DESCRIPTION OF OPERATION:
INDOORS ☒ VENTILATION _____
OUTDOORS ☐ WIND _____
OPERATION _____

Static monitoring

X410671

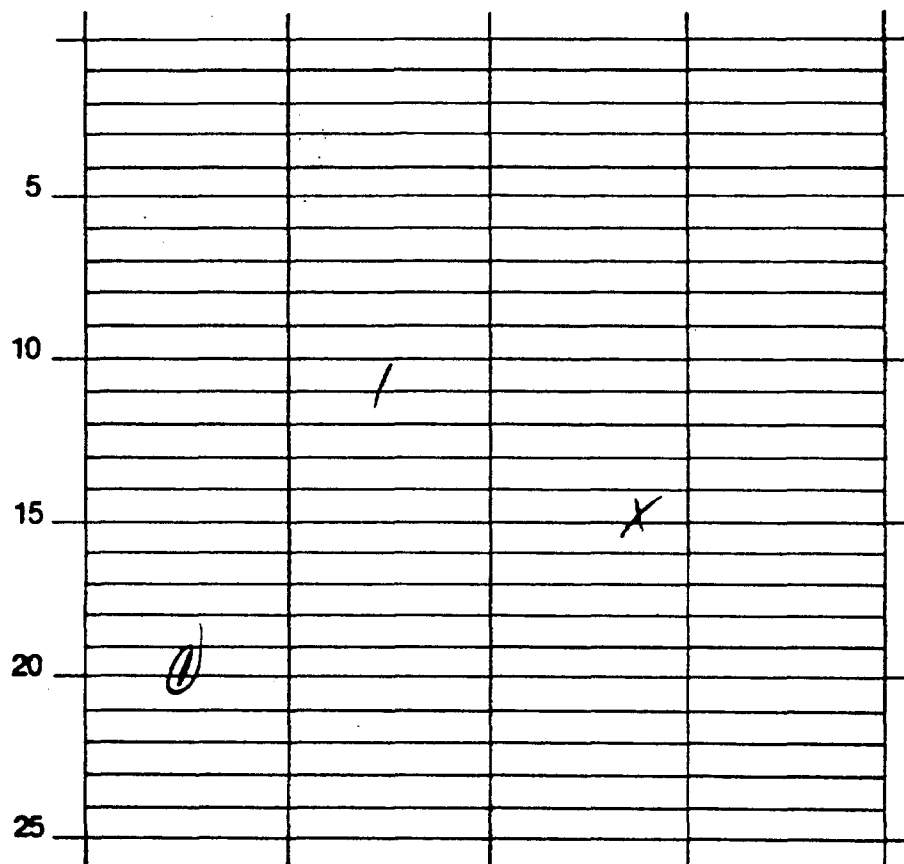
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. L-71 DATE 6/25/87 MICROSCOPIST JS
FLOW 2 TIME 240 VOLUME 480 ml
OPTICS PC MAG. 400x FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE .015 / .004 AMPHIBOLE .01 / .003 OTHER /

COMMENTS:



X410672

L-71 6/25/87 JS
SAMPLE NO. DATE INSPECTOR

F09-0520 2
INST. ROTOMETER READING FLOW RATE (L/M) TIME

UCC Niagara Falls, N.Y.
COMPANY

Bldg 169
LOCATION

SAMPLE: AREA ☒ PERSONAL ☐

2nd floor lab

SAMPLE TIME:
TIME ON 11:31 ROTOMETER _____

TIME OFF _____ ROTOMETER _____

DESCRIPTION OF OPERATION:
INDOORS ☒ VENTILATION _____

OUTDOORS ☐ WIND _____

OPERATION Static monitoring

X410673

H-20 6/15/87 JS
SAMPLE NO. DATE INSPECTOR

F09-0520 2
INST. ROTOMETER READING FLOW RATE (L/M) TIME

CCC Niagara Falls, NY
COMPANY

Bldg 169
LOCATION

SAMPLE: AREA ☒ PERSONAL ☐

2nd floor Lab.

SAMPLE TIME:

TIME ON 7:31 ROTOMETER _____

TIME OFF 11:31 ROTOMETER _____

DESCRIPTION OF OPERATION:

INDOORS ☒ VENTILATION _____

OUTDOORS ☐ WIND _____

OPERATION _____

Static monitoring

X410674

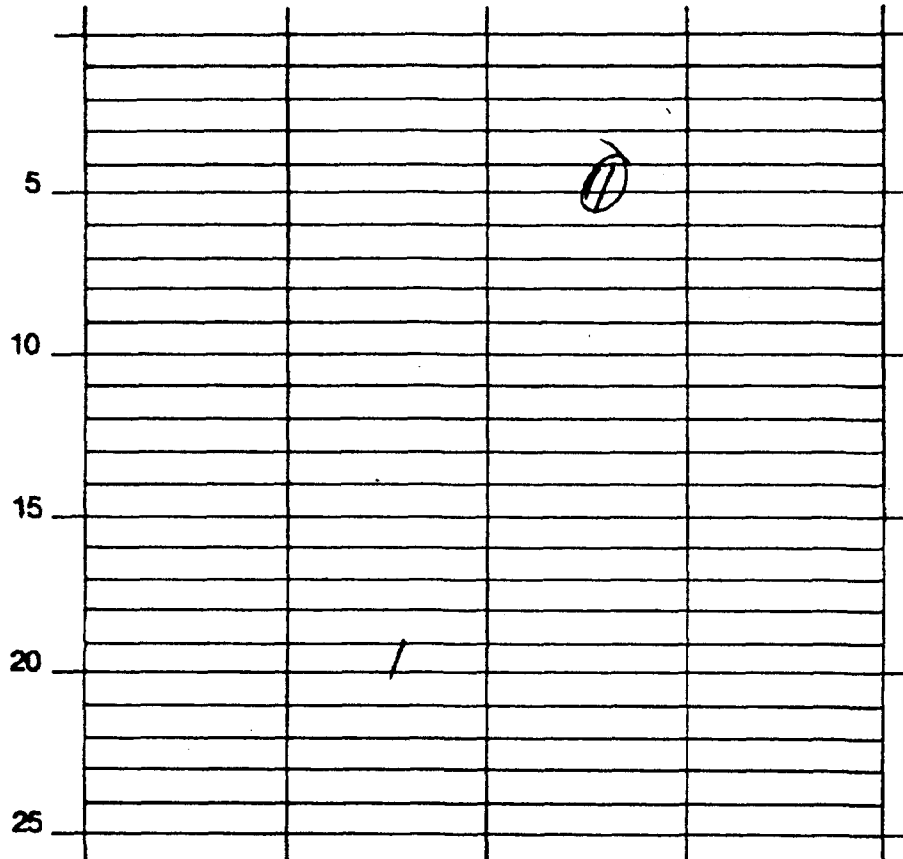
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. H-20 DATE 6/25/81 MICROSCOPIST JS
FLOW 2 TIME 240 VOLUME 480ml
OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE 01 / 1003 AMPHIBOLE 02 / 1006 OTHER 1

COMMENTS:



X410675

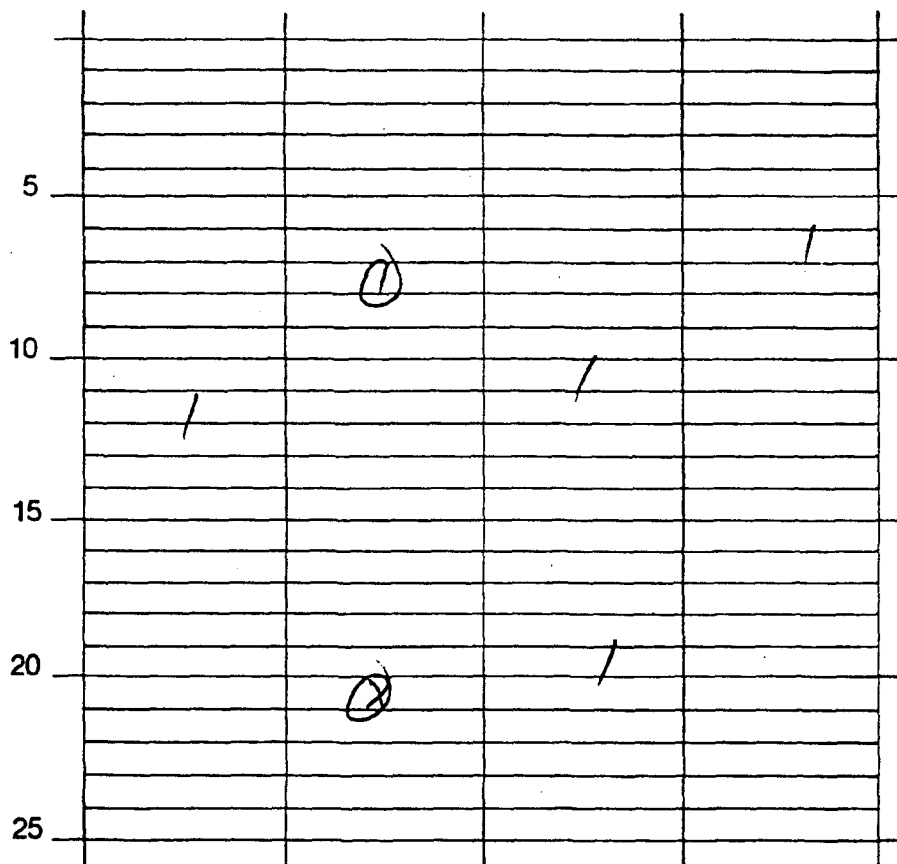
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. L-59 DATE 6/25/87 MICROSCOPIST JS
 FLOW 2 TIME 240 VOLUME 480ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE 04 / 1,011 AMPHIBOLE 015 / 1,004 OTHER 1

COMMENTS:



X410676

659
SAMPLE NO. 6/25/91 DATE 75 INSPECTOR

F-09-n/36
INST. ROTOMETER READING FLOW RATE (L/M) TIME

UCC Niagara Falls, NY
COMPANY

Bldg 169
LOCATION

SAMPLE: AREA ☒ PERSONAL ☐

Asb storage area, 3rd floor

SAMPLE TIME:
TIME ON 11:20 ROTOMETER

TIME OFF ROTOMETER

DESCRIPTION OF OPERATION:

INDOORS ☒ VENTILATION

OUTDOORS ☐ WIND

OPERATION

Static monitoring

X410677

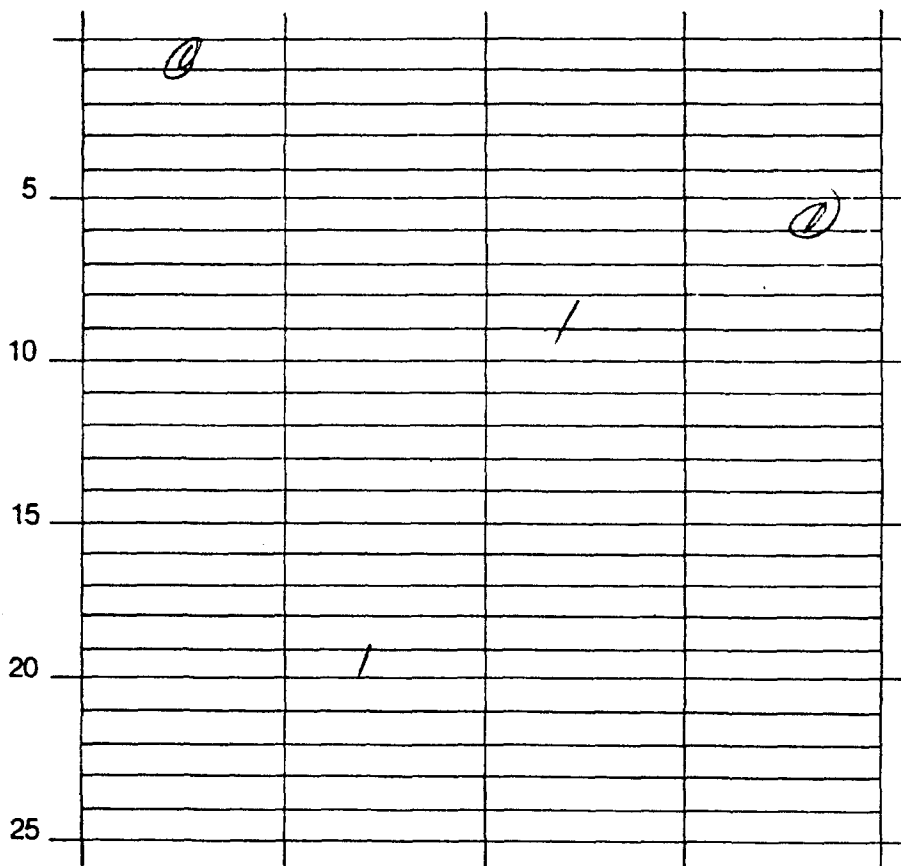
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. 1-42 DATE 6/25/87 MICROSCOPIST JS
 FLOW 2 TIME 240 VOLUME 450 ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE .02 / .006 AMPHIBOLE .02 / .006 OTHER /

COMMENTS:



X410678

SAMPLE NO. -47 DATE 6/25/87 INSPECTOR JS

INST. F-09-0436 ROTOMETER READING 2 FLOW RATE (L/M) TIME

COMPANY UCC - Niagara Falls, N.Y.

LOCATION 31kg 169

SAMPLE: AREA ☒ PERSONAL ☐

ISS Storage Deck - 3rd floor

SAMPLE TIME:

TIME ON 7:30 ROTOMETER

TIME OFF 11:30 ROTOMETER

DESCRIPTION OF OPERATION:

INDOORS ☒ VENTILATION

OUTDOORS ☐ WIND

OPERATION

Static monitoring

X410679

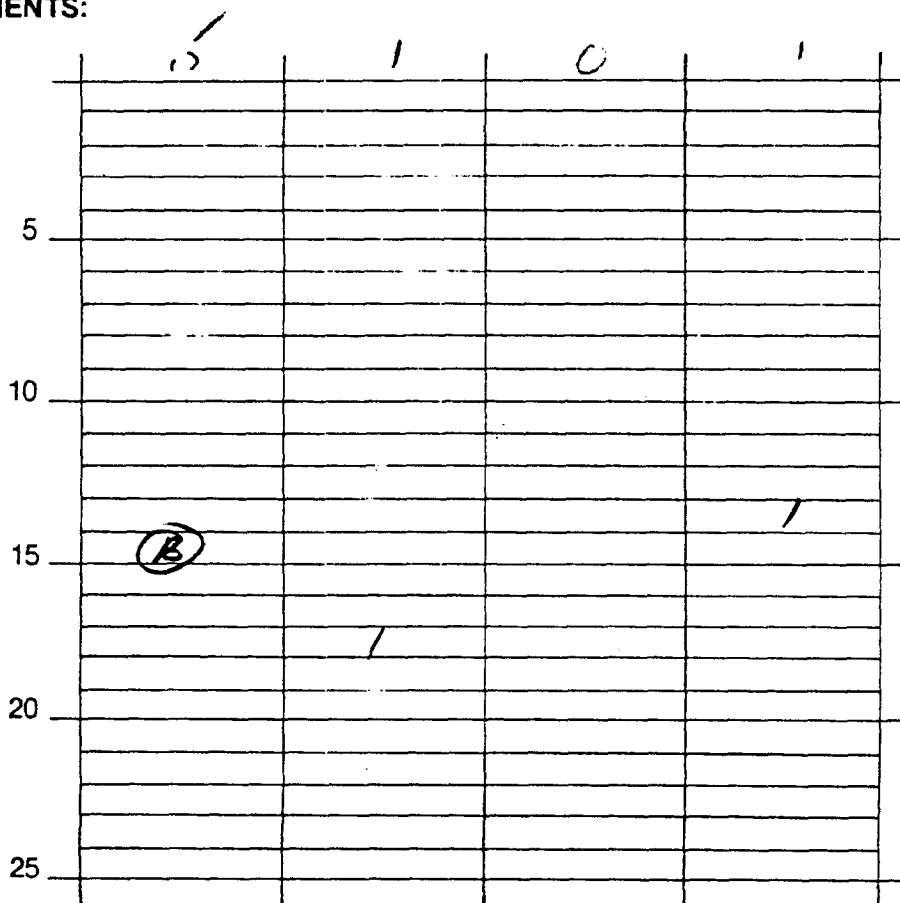
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. H-12 DATE 2/4/80 MICROSCOPIST JS
 FLOW 2 TIME 15 VOLUME 30 ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOTILE 025 / .115 AMPHIBOLE / OTHER /

COMMENTS:



excesses are from counting below the plane.

X410683

A-12 2/11/20 J.S
SAMPLE NO. DATE INSPECTOR

E05 K19 6+ 2
INST. ROTOMETER READING FLOW RATE (L/M) TIME

Plenum Chlorine Tests
COMPANY

USC AFN
LOCATION

SAMPLE: AREA ☐ PERSONAL ☐
Right

SAMPLE TIME:
TIME ON 10:30 a.m. ROTOMETER 6+
TIME OFF 10:15 ROTOMETER 6+

DESCRIPTION OF OPERATION:
INDOORS ☐ VENTILATION _____
OUTDOORS ☐ WIND _____
OPERATION Control

X410684

ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A-25 DATE 2/4/80 MICROSCOPIST JS
 FLOW 2 TIME 15 VOLUME 30 ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE 1035 / 1.161 AMPHIBOLE / OTHER /

COMMENTS:

5			
10			
15			
20			
25			

X410685

11-01
SAMPLE NO. EOS 1419 DATE 2/1/00 INSPECTOR 275
INST. lot ROTOMETER READING 22 FLOW RATE (L/M) TIME
Plenum chamber tests

COMPANY

LOCATION UCC, NFA4

SAMPLE: AREA ☐ PERSONAL ☐

21045

SAMPLE TIME:

TIME ON 1:15 p.m. ROTOMETER 6+

TIME OFF 1:30 p.m. ROTOMETER

DESCRIPTION OF OPERATION:

INDOORS ☐ VENTILATION

OUTDOORS ☐ WIND

OPERATION

LTA - 144 (3 1/2 min mix)

X410686

ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A-10 DATE 2/4/80 MICROSCOPIST JB
FLOW 2 TIME 15 VOLUME 30m
OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOTILE 0.15 / 0.069 AMPHIBOLE 0.10 OTHER 1

COMMENTS:

5			
10			
15			
20			1
25	1		

X410687

<u>H-10</u>		<u>2/1/82</u>	<u>FS</u>
SAMPLE NO.		DATE	INSPECTOR
<u>F09 0520</u>		<u>5.0</u>	<u>2</u>
INST.	ROTOMETER READING	FLOW RATE (L/M) TIME	
	<u>Plenum chamber tests</u>		
COMPANY			
<u>UCC INC</u>			
LOCATION			
SAMPLE:	AREA ☐	PERSONAL ☐	
<u>LEFT</u>			
SAMPLE TIME:			
TIME ON	<u>1:15 pm</u>	ROTOMETER	<u>50</u>
TIME OFF	<u>1:30 pm</u>	ROTOMETER	
DESCRIPTION OF OPERATION:			
INDOORS ☐	VENTILATION		
OUTDOORS ☐	WIND		
OPERATION			
<u>LTX - 144 (3 1/2 min mix)</u>			

X410688

ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A-19 DATE 2/4/80 MICROSCOPIST JS
 FLOW 2 TIME 15 VOLUME 30 ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTILE .055 / .253 AMPHIBOLE / OTHER /

COMMENTS:

	1.5	0	2	2
5				
10				
			/	
15				
	x			
20	/			
			/	/
				/
25				

X410689

1-11		5/11	7-5
SAMPLE NO.	DATE	INSPECTOR	
FO9 0520	5.0	2	
INST.	ROTOMETER READING	FLOW RATE (L/M) TIME	
	Plenum Chamber		
COMPANY			
UCC, NFN4			
LOCATION			
SAMPLE:	AREA ☐	PERSONAL ☐	
	LEFT		
SAMPLE TIME:			
TIME ON	10:55	ROTOMETER	5.0
TIME OFF	11:10	ROTOMETER	
DESCRIPTION OF OPERATION:			
INDOORS ☐	VENTILATION		
OUTDOORS ☐	WIND		
OPERATION			
Megawatts Detol H-1 (JW 70E-7)			
TEST # 2			

X410690

ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A-5 DATE 2/4/80 MICROSCOPIST JS
 FLOW 2 TIME 15 VOLUME 30m
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOTILE .055 / .253 AMPHIBOLE / OTHER /

COMMENTS:

	1	1	3	.5
				x
			1	
5				
			B	
10				
15		1		
20	1		1	
25				

X410691

A-5 2/1/81 78
SAMPLE NO. DATE INSPECTOR
E05 1419 6+ 2
INST. ROTOMETER READING FLOW RATE (L/M) TIME
Plenum Chamber Tests

COMPANY

LOCATION

SAMPLE: AREA ☐ PERSONAL ☐

Right

SAMPLE TIME:

TIME ON 10:55 ROTOMETER 6+

TIME OFF 11:10 ROTOMETER

DESCRIPTION OF OPERATION:

INDOORS ☐ VENTILATION

OUTDOORS ☐ WIND

OPERATION

Megatons Deton H-1 (Jm 712F-9)
Test #2

X410692

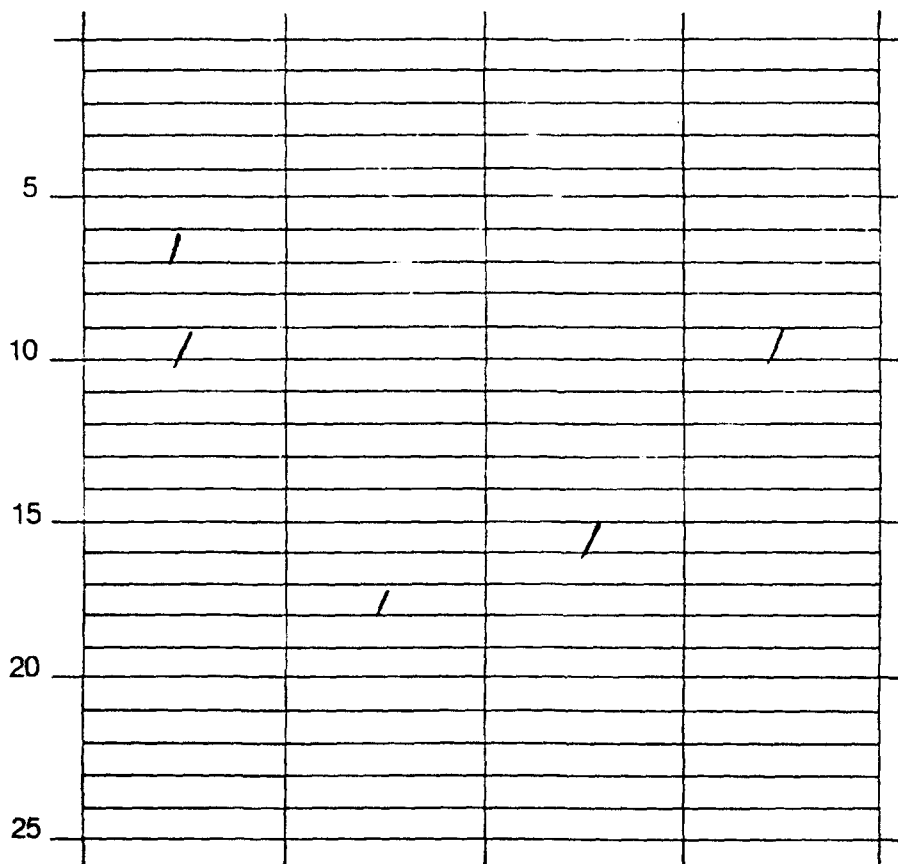
ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A-8 DATE 2/4/80 MICROSCOPIST JS
 FLOW 2 TIME 15 VOLUME 30 ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOTILE .05 / .230 AMPHIBOLE 0 / 0 OTHER /

COMMENTS:



X410693

SAMPLE NO. <u>ECS 1419</u>		DATE <u>7/1/50</u>	INSPECTOR <u>S</u>
INST.	ROTOMETER READING <u>6+</u>	FLOW RATE (L/M) TIME <u>2</u>	
Plenum Chamber Tests			
COMPANY <u>UCC, AFN-1</u>			
LOCATION			
SAMPLE:	AREA ☐	PERSONAL ☐	
<u>RIGHT</u>			
SAMPLE TIME:			
TIME ON	<u>10:20</u>	ROTOMETER	<u>6+</u>
TIME OFF	<u>10:35</u>	ROTOMETER	<u>6+</u>
DESCRIPTION OF OPERATION:			
INDOORS ☐	VENTILATION		
OUTDOORS ☐	WIND		
OPERATION <u>Megaldio Jetox H-1 (TM 70E-9)</u>			
<u>TEST #1</u>			

X410694

ASBESTOS COUNT RECORD SHEET

SAMPLE NO. A-7 DATE 2/4/60 MICROSCOPIST FS
 FLOW 2 TIME 15 VOLUME 30 ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOTILE .095 / .437 AMPHIBOLE .01 / .046 OTHER /

COMMENTS:

①

	3	3.5	2	1
5			/ x	
		/	x	
10				
15	/	①		
	/			
20		x		/
25	//	//		

X410695

SAMPLE NO. <u>4-1</u>		DATE <u>2/1/80</u>	INSPECTOR <u>J.B.</u>
INST. <u>E09 0320</u>		ROTOMETER READING <u>5.0</u>	FLOW RATE (L/M) TIME <u>2-</u>
Plenum chamber Tests			
COMPANY			
LOCATION <u>UCC, NEWY</u>			
SAMPLE:	AREA ☐	PERSONAL ☐	
<u>LEFT</u>			
SAMPLE TIME:			
TIME ON	<u>10:20</u>	ROTOMETER	<u>5.0</u>
TIME OFF	<u>10:35</u>	ROTOMETER	<u>5.0</u>
DESCRIPTION OF OPERATION:			
INDOORS ☐	VENTILATION _____		
OUTDOORS ☐	WIND _____		
OPERATION _____			
<u>Megabio Detox H-1 (JM RF-9)</u>			
<u>TEST #1</u>			

X410696

ASBESTOS COUNT RECORD SHEET

SAMPLE NO. 4-16 DATE 2/4/80 MICROSCOPIST JS
 FLOW 2 TIME 15 VOLUME 30 ml
 OPTICS PC MAG. 400 FIELD AREA .0062

FIBERS PER FIELD / FIBERS PER CC OF AIR

CHRYSTOTILE .01 / .046 AMPHIBOLE / OTHER /

COMMENTS:

	0	0	1	0
5				
10			1	
15				
20				
25				

X410697

F-16 2/1/80 73
SAMPLE NO. DATE INSPECTOR

FD9 0520 5.0 2
INST. ROTOMETER READING FLOW RATE (L/M) TIME

Plenum chamber tests

COMPANY

UCC, NFN Y

LOCATION

SAMPLE: AREA ☐ PERSONAL ☐

LEFT

SAMPLE TIME:

TIME ON 10:00 A.M. ROTOMETER 5.0

TIME OFF 10:15 ROTOMETER 5.0

DESCRIPTION OF OPERATION:

INDOORS ☐ VENTILATION _____

OUTDOORS ☐ WIND _____

OPERATION _____

control

X410698

Plenum Chamber Tests
McC, Niagara Falls, N.Y.

Report # 2832-60

Sample	Date	Time of test	Minutes	Material described	Calibrated Flow / sec	Aspirator Flow / sec
A-12	2/1/80	10:00-10:15	15	Control	0.085	0.115
A-16	2/1/80	10:00-10:15	15	Control	0.01	0.046
A-7	2/1/80	10:20-10:35	15	Megacoil Deter H-1 (TM 78-9) Test #1	0.095	0.437
A-8	2/1/80	10:30-10:35	15	Megacoil Deter H-1 (TM 78-9) Test #1	0.05	0.830
A-5	2/1/80	10:55-11:10	15	Megacoil Deter H-1 (TM 78-9) Test #2	0.055	0.253
A-19	2/1/80	10:55-11:10	15	Megacoil Deter H-1 (TM 78-9) Test #2	0.055	0.253
A-10	2/1/80	1:15-1:30	15	CTX-144 (3 1/2 mil mix)	0.015	0.069
A-25	2/1/80	1:15-1:30	15	CTX-144 (3 1/2 mil mix)	0.035	0.161

X410699

