FILE NAME: Reddaway (REDD)

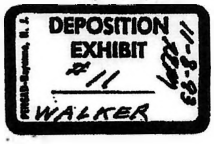
DATE: 1975-7978

DOC#: REDD006

DOCUMENT DESCRIPTION: Unpublished Consultant's Testing Reports

RALPH L. LANZ
Consultant on Asbestos

5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432



November 11, 1975

Mr. Vincent LaCarrubba
Reddaway Manufacturing Co.
32 Euclid Ave.
Newark N. J.

Dear Vincent:

This report covers my visit to your factory on Tuesday, November 4, 1975. Six samples of airborne asbestos fibers were collected at that time and all data as well as the results of the analyses are shown on the original data sheets which are enclosed.

Sample R-1. There were a number of places where abrasion of the dry yarn occurred in this operation and the result was lower than I expected. While there is little doubt that the concentration of asbestos fibers in the air was low at the time of test, the true value may have been significantly different than the 0.29 fibers/cc which was found. This is because the sampling time was not long enough to give the desired concentration of fibers on the filter. For the best accuracy, the sampling time should be just long enough to give a count of 100 fibers in 100 fields, or a value of average fibers/field of 1.00.

In practice, good accuracy can be obtained if the value for av. fibers/field is between 0.50 and 2.00; however sample R-1 had only an average of 0.11 fibers/field. The accuracy of the result could have been improved by counting more fields, say 500, but this would have been expensive and, in my opinion, unnecessary since even if the true value were twice as high as the value found (not likely), the fibers/cc would have been well below OSHA limits.

The desired sampling time can be estimated by dividing 170 by the expected result for fibers/cc. Thus, the next time this operation is to be sampled, you would divide 170 by 0.29 and find that sampling should be for 586 minutes. Long sampling times such as this are generally impractical; about the best you can do is to sample as long as you reasonably can, about 3 or 4 hours.

Sample R-2. There is an error in "Time Finished" which should read 11:45; however, the elapsed time is recorded correctly. The result of 1.8 fibers/cc is less than the OSHA maximum. This was a wet-weaving operation and the dust probably came as much from the nearby creels as from the weaving itself. To check this, you may wish to take environmental samples at different places in this room. The recommended sampling time for a retest is 90 minutes.

Sample R-3. This sampling covered two operations: the drill press and the vertical sander. An oscillatind fan was blowing across the drill press towards the operator. This probably increased the test result measured on the operator. An average of 3.7 fibers/cc was found for the combined operations. While meeting the present OSHA standard of 5 fibers/cc, some improvement is necessary to meet the 2 fibers/cc limit which is effective July 1, 1976. The recommended sampling

proper filters, are sealed with cellulose bands, and have been tested for leaks. In another package I'm sending a rubber hose equipped with clamps but without the adapter fitting. The fitting is not really essential since the rubber tubing can be attached directly to the monitor after the red plug is removed. If you want to use a fitting, it can be purchasedfrom:

1 Aerosol Adapter XX62 000 04 @ approximately $10
Millipore Corporation
Bedford, Massachusetts 01730

My invoice covering my services is enclosed.

If you have any questions Vince, please call me and I'll try to answer them for you.

Sincerely,

Ralph L. Lanz

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. R-1

Date Sampled: 11/4/75

Company/Plant: REDDAWAY TIRE CO. Department: WEAVING Equipment Used: BOBBIN WINDER

Material Used: RAYON Product Made: BOBBINS

Operator: GLADYS DEAEICH Job: N/A Respirator Used? NO

Describe what operator did during sampling period:

Type Sample: Personal: ✓ Environmental: N/A Sampled by: V. LA CARRUBBA

Time Finished: 11:23½ Pump No.: 2

Time Started: 10:19 Rate, Liters/Min.: 2

Elapsed Time, Min.: 64½ Volume Sampled, Liters: 129

Remarks: WEATHER: SUNNY & WINDY 55°F; WINDOWS CLOSED NO EXHAUST FANS

****

Slide Prepared: Date: 11/5/75 By: JJC Slide Counted: Date: 11/6/75 11/7/75 By: JJC

Remarks:

Fibers> 5 Microns				
0	0	0	0	0
1	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	1	2
0	0	0	0	0
2	0	0	0	0
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	0

Fibers> 5 Microns				

Total Fibers 11 Total Fields 100 Av. Fibers/Field .11 Fibers/cc .29

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. R-2

Date Sampled: 11/4/75

Company/Plant: FERRACLAY MFG Co. Department: WEAVING Equipment Used: Loom #07

Material Used: ASBESTOS 890 494 67 674 62 Product Made: BRAKE LINING

Operator: HELEN OTT Job: N/A Respirator Used? NO

Describe what operator did during sampling period:

Type Sample: Personal: ✓ Environmental: N/A Sampled by: V. LA CARRUBBA

Time Finished: 14:45 Pump No.: 2

Time Started: 10:22 Rate, Liters/Min.: 2

Elapsed Time, Min.: 83 Volume Sampled, Liters: 166

Remarks: SUNNY, 55°F HUMIDITY, WINDOWS CLOSED, NO EXHAUST FANS

Slide Prepared: Date: 11/5/75 By: JJC Slide Counted: Date: 11/7/75 11/6/75 By: RRR

Remarks:

Fibers > 5 Microns

1	1	3	1	0
0	1	1	2	1
0	0	0	0	1
1	0	1	2	1
1	2	0	0	1
0	1	1	2	1
0	1	0	2	1
1	2	0	1	0
0	1	1	0	2
1	0	0	2	0
0	0	2	1	0
0	0	2	1	1
1	1	0	0	0
1	1	1	4	1
2	1	0	0	1
1	1	0	1	1
0	1	2	0	0
0	1	1	2	0
0	1	2	2	0
1	1	2	2	0

Fibers > 5 Microns

Total Fibers 86 Total Fields 100 Av. Fibers/Field .86 Fibers/cc 1.8

Reddaway 00078

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. R-3

Date Sampled: 11/4/75 (VERTICAL SANDING)

Company/Plant: REDDAWAY MFG. CO. Department: CEILING Equipment Used: SANDER-VERTICAL DRILL PRESS #1

Material Used: _____ Product Made: N/A

Operator: ROY CLEVLAND Job: N/A Respirator Used? NO

Describe what operator did during sampling period: FIRST 25 MIN. - DRILL PRESS #1
SECOND 25 MIN. - VERTICAL SANDER - OSCILLATING FAN NOT A FACTOR ON VERTICAL SANDER.

Type Sample: Personal: ✓ Environmental: _____ Sampled by: V. LACARRUBBA

Time Finished: 1:40 Pump No.: 1

Time Started: 12:40½ Rate, Liters/Min.: 2

Elapsed Time, Min.: 59½ Volume Sampled, Liters: 119

Remarks: SUNNY HUMIDITY 55%, OSCILLATING FAN ON DUST CONCENTRATING AND BLOWING DUST AT OPERATORS FACE

Slide Prepared: Date: 11/5/75 By: JJC Slide Counted: Date: 11/7/75 11/6/75 By: JJC

Remarks: _____

Fibers > 5 Microns

3	1	1	1	1
1	3	0	0	2
4	0	0	0	0
0	0	0	0	0
0	0	1	3	6
1	2	2	3	0
2	3	0	0	4
1	0	2	3	1
1	0	1	1	3
3	1	2	2	3
0	0	2	2	1
2	0	3	1	0
1	1	1	1	0
2	1	5	1	1
0	3	3	2	2
0	0	0	4	0
1	1	6	1	2
1	3	0	1	1
1	1	3	0	0
1	3	1	0	1

Fibers > 5 Microns

Total Fibers 129 Total Fields 100 Av. Fibers/Field 1.29 Fibers/cc 3.7

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. C-4

Date Sampled: 11/4/75

Company/Plant: REDDAWAY MFG. CO. Department: FINISHING Equipment Used: RIPPER SAW

Material Used: RAW Product Made: N/A

Operator: JOHN SAN ROMAN Job: N/A Respirator Used? NO

Describe what operator did during sampling period: Two change overs, first 10 minutes, second 8 minutes

Type Sample: Personal: V Environmental: Sampled by: V. LACARRUBBA

Time Finished: 1:43½ Pump No.: 2

Time Started: 12:43 Rate, Liters/Min. 2

Elapsed Time, Min. 60½ Volume Sampled, Liters: 121

Remarks: SUNNY HUMIDITY 55% WINDOWS OPEN EXIT DOOR OPEN, EXHAUST FAN ON. DUST COLLECTOR OPERATING

Slide Prepared: Date: 11/5/75 By: JJC Slide Counted: Date: 11/7/75 11/6/75 By: JJC

Remarks:

Fibers> 5 Microns

1	1	0	0	1
1	0	0	0	0
0	0	0	2	1
0	0	0	0	1
0	0	1	0	1
3	0	1	0	0
0	2	1	0	2
0	0	0	0	0
0	1	0	0	0
0	3	0	0	1
0	1	0	0	0
0	0	0	1	0
2	0	0	0	1
0	2	0	1	0
0	0	0	0	1
0	0	1	0	0
0	0	1	0	1
0	0	2	0	0
1	0	1	0	0
0	0	1	0	0

Fibers> 5 Microns

Total Fibers 41 Total Fields 100 Av. Fibers/Field .41 Fibers/cc 1.2

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
2001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. R-5

Date Sampled: 11/4/75

Company/Plant: REDDAWAY MFG. CO Department: WEAVING Equipment Used: N/A

Material Used: AMATEX ASBESTOS YARN Product Made: N/A

[redacted] Operator: FELICETTA BARBIERI Job: FILL CREELS Respirator Used? No

Describe what operator did during sampling period: NORMAL FUNCTIONS OF THIS OPERATION, FILLING CREELS OF LOOM #2 AND JUMBO JR. LOOM.

Type Sample: Personal: ✓ Environmental: Sampled by: V. LaCARRUBBA

Time Finished: 2:39 Pump No.: 2

[redacted] Time Started: 1:49½ Rate, Liters/Min.: 2

Elapsed Time, Min.: 50½ Volume Sampled, Liters: 101

Remarks: SUNNY, HUMIDITY 55%

[redacted] Slide Prepared: Date: 11/5/75 By: JJC Slide Counted: Date: 11/7/75 11/6/75 By: [redacted]

Remarks:

Fibers > 5 Microns

2	2	2	3	0
1	4	1	1	1
1	0	2	2	0
1	3	0	2	3
2	1	1	1	2
1	3	2	3	1
1	1	1	1	1
2	1	0	1	0
3	4	1	1	2
1	0	2	1	2
2	0	1	1	3
1	1	1	2	3
1	2	2	0	0
2	1	4	0	2
1	0	0	0	1
1	0	2	1	2
3	3	1	2	1
2	5	2	0	0
0	2	0	0	2
1	0	0	0	2

Fibers > 5 Microns

Total Fibers 141 Total Fields 100 Av. Fibers/Field 1.41 Fibers/cc 4.8

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

alph L. Lanz
001 Grant Avenue
hiladelphia, PA 19114
el. (215) 637-7432

Sample No. R-6

Date Sampled: 11/4/75

ompany/Plant: Reddaway Mfg. Co. Department: WEAVING Equipment Used: Loom #2
(632-2 632B)

laterial Used: Aratex 630 6322 Product Made: BRAKE LINING

perator: FLORENCE KOWAL Job: N/A Respirator Used? NO

escribe what operator did during sampling period: NORMAL FUNCTIONS OF LOOM OPERATOR.

ype Sample: Personal: ✓ Environmental: Sampled by: V. LaCARRUBBA

ime Finished: 2:40 Pump No.: 245

ime Started: 1:52 Rate, Liters/Min.: 2

lapsed Time, Min. 49 Volume Sampled, Liters: 96

Remarks: SUNNY, HUMIDITY 55%, WINDOW OPEN BACK OF OPERATOR. ENDS FROM WATER SPRAY ON BINDER BEAM VERY WEAK. COTTON LEASE ONLY ARE PRE-WET.

Slide Prepared: Date: 11/5/75 By: JJC Slide Counted: Date: 11/7/75 11/6/75 By: JJC

Remarks:

Fibers> 5 Microns

0	0	0	0	0
0	0	3	2	1
1	2	0	0	0
2	3	1	0	1
0	0	1	1	1
1	0	1	0	0
1	2	1	2	0
1	0	1	1	0
1	0	2	1	2
0	0	0	1	0
2	1	0	0	0
2	0	3	0	1
0	1	1	0	0
2	0	1	1	0
3	0	0	3	2
1	0	1	1	0
0	0	0	1	0
0	0	1	1	0
0	2	1	0	0
0	1	0	0	0

Fibers> 5 Microns

Total Fibers 69 Total Fields 100 Av. Fibers/Field .69 Fibers/cc 2.5

RALPH L. LANZ
Consultant on Asbestos

5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

May 3, 1976

Mr. Vincent LaCarrubba
Reddaway Manufacturing Co.
32 Euclid Avenue
Newark, N. J.

Dear Vince,

This report covers tests carried out on the four samples of airborne asbestos dust which you sent to me recently.

The analyses were carried out using the procedures of the U. S. Public Health Service. The fibers over 5 microns per field were determined and the fibers over 5 microns per cc were calculated from this value and the data you submitted for sampling time and rate.

You also asked for an analysis of particles less than 5 microns. On examination of the samples, it proved to be impractical to count all particles under 5 microns; instead, all particles which could be classified as fibers (i. e., having a length/diameter ratio of 3 or more) were counted.

The results are shown in the following table:

	Sample No.			
	RE-7	RE-8	RE-9	RE-10
Sampling time, min.	145	120	105	480
Rate, liters/min.	2	2	2	2
Volume sampled, liters	290	240	210	960
Fibers over 5 microns:				
Fibers/field	0.48	0.67	1.20	0.13
Fibers/cc	0.57	0.95	2.0	0.046
Total fibers:				
Fibers/field	1.64	2.12	3.66	0.42
Fibers/cc	1.9	3.0	6.0	0.20
% of total fibers over 5 microns	29	32	33	23

None of the samples gave results which exceeded the new OSHA limit of 2 fibers over 5 microns per cc which is effective July 1, 1976. However, sample RE-9 was right on the limit.

I've shown the per cent of total fibers which are longer than 5 microns and this value seems to be about 30%. There were insufficient fibers counted for sample RE-10 for the percentage figure to be representative. The value for per cent of total fibers over 5 microns may be important in future tests to indicate if your new equipment is more effective in removing longer or shorter fibers.

May 3, 1976

Enclosed are the completed data sheets which you sent with the samples. Also enclosed is my invoice covering these tests.

If you have any questions Vince, please give me a call.

Sincerely,

Ralph L. Lanz

enc.

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. RE-7

Date Sampled: 4/9/76 Loc. 1

Company/Plant: REDDAWAY MFG Co. Department: WEAVING Equipment Used: Bobbin winder

Material Used: AMATEX 2 ASB. YARN Product Made: Bobbins formed

Operator: GLADYS DRAGICH Job: N/A Respirator Used? No

Describe what operator did during sampling period: NORMAL FUNCTIONS.

Type Sample: Personal: _____ Environmental: ✓ Sampled by: V. LaCARRUBBA

Time Finished: A.M. ~~Noon~~ 11:25 Pump No. 2

Time Started: A.M. 9:00 Rate, Liters/Min. 2

Elapsed Time, Min. 145 Volume Sampled, Liters: 290

Remarks: WEATHER: SUNNY HUMIDITY 40% WINDOWS CLOSED - NO FANS - DRAFT COMIN UNDER AROUND OR THROUGH ADJACENT DOORS.

Slide Prepared: Date: 4/20/76 By: JJ Slide Counted: Date: 4/23/76 By: RJC

Remarks: HEAVY AMOUNT OF SMALL DUST PARTICLES

Fibers > 5 Microns

0	1	0	2	1
1	0	1	0	1
0	1	0	0	1
0	0	0	2	0
0	0	0	1	2
0	0	0	0	1
0	0	1	0	1
1	1	0	0	1
0	0	0	0	1
1	1	0	0	0
0	0	0	1	0
0	1	0	0	0
0	0	1	1	1
0	0	0	0	1
1	1	1	0	1
2	1	0	2	0
0	0	1	0	0
0	0	0	1	0
0	2	2	0	0
1	1	0	1	0

Fibers ≤ 5 Microns

1	2	0	2	2
2	0	2	1	2
0	1	0	0	1
2	0	0	3	1
1	0	0	1	3
0	1	0	0	2
1	0	1	0	3
1	2	0	1	1
1	2	0	3	2
2	1	0	1	0
0	0	1	2	0
0	2	0	0	2
0	1	1	2	2
2	0	0	0	1
3	2	1	2	1
4	4	0	4	1
2	0	1	2	0
2	0	0	2	1
1	3	4	1	1
2	1	0	2	1

Total Fibers 48 Total Fields 100 Av. Fibers/Field .48 Fibers/cc .57

[redacted] NUMBER
111 100 1.11

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. RE-8

Date Sampled: 4/9/76 Loc. 2

Company/Plant: REDDAWAY MFG. Co. Department: WEAVING Equipment Used: BOBBIN WINDER
AMATEX

Material Used: ASB. YARN Product Made: BOBBINS FORMED

Operator: GLADYS DRAGICH Job: N/A Respirator Used: N/A

Describe what operator did during sampling period: NORMAL FUNCTIONS

Type Sample: Personal: _____ Environmental: ✓ Sampled by: V. LaCARRUBA

Time Finished: P.M. 3:30 Pump No. 1

Time Started: P.M. 1:30 Rate, Liters/Min. 2

Elapsed Time, Min. 120 Volume Sampled, Liters: 240

Remarks: SAME AS RE-7.

Slide Prepared: Date: 4/22/76 By: J.J.C Slide Counted: Date: 4/24/76 By: J.J.C.

Remarks: MEDIUM AMOUNT OF SMALL DUST PARTICLES

Fibers > 5 Microns

0	1	1	1	1
1	1	1	0	0
0	0	1	0	0
2	2	3	1	0
0	1	0	3	0
0	0	0	0	0
1	1	3	1	1
1	1	1	0	0
0	1	0	1	1
0	0	1	0	2
0	0	0	0	0
1	0	0	1	3
2	1	2	0	0
0	1	1	2	2
1	1	2	0	0
0	0	0	0	0
0	0	1	0	1
0	1	3	0	1
0	0	0	0	3
0	0	1	0	0

Fibers < 5 Microns

2	3	2	2	1
2	2	1	0	1
1	0	2	0	1
4	4	5	1	0
0	1	1	3	0
0	0	1	0	1
1	1	6	2	1
1	2	1	0	0
2	3	0	1	1
0	0	1	1	4
0	1	1	1	0
1	0	0	1	6
2	2	2	0	0
1	2	1	4	4
1	3	2	2	0
1	2	0	2	2
0	0	2	1	3
0	3	4	0	1
0	2	0	2	5
1	0	2	1	0

Total Fibers 67 Total Fields 100 Av. Fibers/Field .67 Fibers/cc .95

FIBERS UNDER MICRONS 1.45 100 1.45 2.07

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. R-9

Date Sampled: 4/12/76

Company/Plant: REDDAWAY MFG. Co. Department: WEAVING Equipment Used: BABBITT MACHINE

Material Used: ASB. YARN Product Made: BABBITS FORMED

Operator: GLADYS DRAGICH Job: N/A Respirator Used? NO

Describe what operator did during sampling period: NORMAL FUNCTIONS

Type Sample: Personal: ✓ Environmental: Sampled by: V. LACARRUBA

Time Finished: A.M. 11:45 Pump No. 2

Time Started: A.M. 10:00 Rate, Liters/Min. 2

Elapsed Time, Min. 105 Volume Sampled, Liters: 210

Remarks: SAME AS RE-8

Slide Prepared: Date: 4/23/76 By: JGA Slide Counted: Date: 4/24/76 By: JGA

Remarks: MEDIUM AMOUNT OF SMALL DUST PARTICLES

Fibers > 5 Microns

0	0	0	0	0
3	0	0	5	0
1	1	0	1	1
1	2	0	2	2
0	0	1	0	0
3	1	1	0	2
3	0	1	4	0
0	4	0	2	1
2	2	2	5	0
0	0	1	2	2
1	1	2	1	1
0	2	0	0	1
0	0	1	2	3
1	1	0	4	1
3	1	0	2	0
4	1	1	0	3
1	1	2	1	2
3	0	0	0	0
2	2	1	0	1
0	3	3	1	2

Fibers ≤ 5 Microns

0	1	1	3	1
4	0	4	7	0
2	2	1	3	1
2	3	1	4	4
0	0	2	0	1
4	2	2	1	3
4	2	4	6	0
1	6	0	2	3
4	5	3	2	0
2	1	4	2	3
1	2	2	2	1
0	3	2	2	4
2	1	2	6	5
4	1	0	5	1
6	3	4	5	1
4	2	1	2	5
1	3	4	3	1
3	0	0	1	2
3	4	4	1	2
1	4	6	2	3

Total Fibers 120 Total Fields 100 Av. Fibers/Field 1.20 Fibers/cc 1.95

FIBERS UNDER 246 100 2.46 4.01

MEASUREMENT OF AIRBORNE ASBESTOS FIBER

Ralph L. Lanz
5001 Grant Avenue
Philadelphia, PA 19114
Tel. (215) 637-7432

Sample No. RE-10

Date Sampled: 4/13/76

Company/Plant: REDDAWAY MFG. Co Department: LAB. Equipment Used: N/A

Material Used: N/A Product Made: N/A

Operator: N/A Job: N/A Respirator Used? N/A

Describe what operator did during sampling period: N/A

Type Sample: Personal: ____ Environmental: ✓ Sampled by: V. LaCamera

Time Finished: P.M. 4:00 Pump No. 2

Time Started: A.M. 8:00 Rate, Liters/Min. 2

Elapsed Time, Min. 480 Volume Sampled, Liters: 960

Remarks: PUMP PLACED IN LAB. ON END OF COUNTER.

Slide Prepared: Date: 4/24/76 By: JJO Slide Counted: Date: 4/28/76 By: JJO

Remarks: HEAVY AMOUNT OF SMALL DUST PARTICLES

Fibers > 5 Microns

1	0	1	0	0
0	0	0	0	0
0	0	0	0	1
0	1	0	0	0
0	1	0	0	0
0	0	0	1	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	1
0	0	1	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
1	1	0	0	0

Fibers < 5 Microns

1	0	1	1	0
0	0	0	0	0
1	0	0	0	1
0	1	0	0	0
0	1	0	0	0
0	1	0	1	0
1	0	1	0	1
0	0	0	0	0
0	1	0	0	0
0	0	0	0	1
1	0	1	1	0
1	0	0	0	0
0	0	1	0	0
0	1	0	0	1
1	0	0	0	1
1	0	1	0	1
0	0	0	0	0
0	0	0	1	0
0	0	0	0	0
1	1	0	0	1

Total Fibers 13 Total Fields 100 Av. Fibers/Field .13 Fibers/cc .05

Less under microns 42 100 .42 .15

American Can Company

James F. McVeigh
Industrial Hygiene Laboratory Services Manager

Safety & Industrial Hygiene Laboratory
AIHA Accreditation No. 29
HEW/CDC License No. 29 1052
U.S. Highway 22
Union, N.J. 07083
201-686-4500

August 1, 1978

Mr. V. LaCarrubba
Reddway Manufacturing Co., Inc.
32 Euclid Avenue
Newark, New Jersey 07105

Dear Mr. LaCarrubba:

Fiber counts for eight asbestos filter samples are as follows:

TABLE I

Sample No.		Fibers/Cubic Centimeter	
R-18	BOBBIN WINDER	1.46	THESE RESULTS PREDICATED ON 4 HR. STUDY
R-19	3/8" LOOM (NEW MACHINE)	0.77	
R-20	CREEL FILER (3/8" JUMBO LOOMS)	★ 2.6	
R-21	JUMBO LOOM	0.54	
R-22	LOOM #2	0.67	
R-23	LOOM #3	0.44	
R-25	FOREMAN	0.87	
R-26	LOOM #4	0.87	

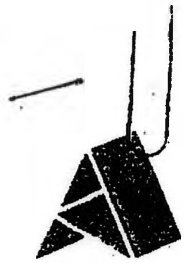
Note: ★ SEE SUBSEQUENT RESULTS ON ANOTHER SHEET

Fibers were counted in accordance with OSHA standard for asbestos using a B/L Phase Contrast Microscope.

Very truly yours,

James F. McVeigh, Manager
Industrial Hygiene Laboratory Services
Safety & Industrial Hygiene
C.I.H. No. 776

JFM:dc
Attachments



American Can Company

James F. McVeigh
Industrial Hygiene Laboratory Services Manager

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September 5, 1978

Mr. V. LaCarrubba, Technical Director
Reddaway Manufacturing Co., Inc.
32 Euclid Avenue
Newark, New Jersey 07105

Dear Mr. Carrubba:

Samples picked up by the writer August 31, 1978 were analyzed in accordance with NIOSH's counting method for asbestos type fibers. Results are indicated in the following Table I.

TABLE I
Reddaway Manufacturing Co., Inc. - Sept. 1, 1978

Sample No.	Volume of Air Sampled Liters	Fibers Counted Per Cubic Centimeter
R-30 #1	120	3.79
R-30 #2	120	2.68
R-30 #3	200	2.1
R-30 #4	120	2.37
R-30 #5	150	1.89
R-30 #6	100	2.19

Please advise if you have any questions.

Very truly yours,

James F. McVeigh, Manager
Industrial Hygiene Lab Services
Safety & Industrial Hygiene
C.I.H. No. 776

JFM:dc
Attachments (6)

American Can Company

James F. McVeigh
Industrial Hygiene Laboratory Services Manager

Safety & Industrial Hygiene Laboratory
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Union, N.J. 07083
201–686-4500

September 19, 1978

Mr. V. LaCarrubba
Reddway Manufacturing Co., Inc.
32 Euclid Avenue
Newark, New Jersey 07105

Dear Mr. LaCarrubba:

Fiber counts for the eight (8) asbestos samples submitted to our laboratory on September 18, 1978 are as follows:

Sample No.	Fibers/Cubic Centimeter
R-33 blank	---
R-33 #1	1.82
R-33 #2	2.13
R-33 #3	2.7
R-33 #4	1.96
R-33 #5	1.71
R-33 #6	1.03
R-33 #7	0.99

These samples were analyzed on September 18, 1978 following the NIOSH recommended procedure. Fibers were counted in accordance with the OSHA asbestos standard using a B/L phase contrast microscope.

Very truly yours,

James F. McVeigh, Manager
Industrial Hygiene Lab Services
Safety & Industrial Hygiene
C.I.H. No. 776

JFM:dc
Attachments

James F. McVeigh
Industrial Hygiene Laboratory Services Manager

American Can Company

Safety & Industrial Hygiene Laboratory
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Union, N.J. 07083
201–686-4500

September 12, 1978

Mr. V. LaCarrubba, Technical Director
Reddaway Manufacturing Company, Inc.
32 Euclid Avenue
Newark, New Jersey 07105

Dear Mr. LaCarrubba:

Analytical findings of seven (7) filter samples are listed in the following Table I, for asbestos fibers. Please advise if you have any questions.

TABLE I

	R-31 Sample Number	Volume of Air Sampled/Liters	Fibers Counted Per Cubic Centimeter of Air Sampled
R-31	1	120	1.0
R-31	2	120	0.48
R-31	3	90	1.82
R-31	4	120	0.83
R-31	5	120	2.39
R-31	6	150	0.82
R-31	7	120	2.76

CREEL FILLER ON JUMBO LOOM. RESULTS PREDICATED ON FULL 8HR WORKING DAY.

AV 144

Note: Samples were analyzed in accordance with NIOSH METHOD No. P & CAM 239.

Very truly yours,

James F. McVeigh, Manager
Industrial Hygiene Lab Services
Safety & Industrial Hygiene
C.I.H. No. 776

JFM:rm

American Can Company

James F. McVeigh
Industrial Hygiene Laboratory Services Manager

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201–686-4500

August 8, 1978

Mr. V. LaCarrubba
Technical Director
Reddaway Manufacturing Company, Inc.
32 Euclid Avenue
Newark, New Jersey 07105

Dear Sir:

Seven filter samples were analyzed on 8/8/78 by the writer for asbestos fiber, in accordance with the OSHA code and the following results were noted:

Sample No.	Fibers/100 Fields	Fibers/cc
R-27-1	52	1.48
R-27-2	77	2.31
R-27-3	60	2.28
R-27-4	42	1.31
R-27-5	39	1.11
R-27-6	61	1.74
R-27-7	53	1.21

Very truly yours,

James F. McVeigh, Manager
Industrial Hygiene Lab Services
Safety & Industrial Hygiene
C.I.H. No. 776

JFM:rm

American Can Company

James F. McVeigh
Industrial Hygiene Laboratory Services Manager

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November 27, 1978

Mr. V. LaCarrubba, Project Chemist
Reddaway Manufacturing Company, Inc.
32 Euclid Avenue
Newark, New Jersey 07105

Dear Mr. LaCarrubba:

Please note our laboratory findings for asbestos fibers in the attached Table I.

Your twelve (12) filter samples were processed in accordance with the NIOSH Analytical Method No. P & CAM 239. If you have any questions, please advise.

Very truly yours,

James F. McVeigh, Manager
Safety & Industrial Hygiene
C.I.H. No. 776

JFM:rm
Attach.

TABLE I

Asbestos Fiber Count - Fibers/Cubic Centimeter

Reddaway Manufacturing Company, Inc.

Sample No.	Volume of Air Sampled/Liters	Fibers/cc (1)
R-34-1	170	2.91
R-34-2	118	2.34
R-34-3	174	2.73
R-34-4	116	1.94
R-34-5	118	1.54
R-34-6	182	1.84
R-35-1	158	1.36
R-35-2	90	0.95
R-35-3	174	1.42
R-35-4	116	1.0
R-35-5	118	1.25
R-35-6	182	1.71

(1) Fibers per cubic centimeters of air sampled.