



Johns-Manville

8/29 259-5
Internal Correspondence

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To: R. S. Lamar - R&D Ctr

Date: August 28, 1973

From: V. E. Wolkodoff - R&D Ctr

Copies:

Subject: **DETERMINATION OF CHRYSOTILE BY TEM IN COMMERCIAL TALCS**

1. Fourteen commercial talcs were examined by TEM for the presence of chrysotile. The samples are identified in Table No. 1, which also lists individual TEM plate numbers.
2. The presence or absence of chrysotile is based on scanning from 20 to 25 fields for each sample. Three electron micrographs were taken of typical fields in each sample. These electron micrographs, a total of 42 prints, are attached.
3. The results are listed in Table No. 2. If chrysotile was detected in a sample, a percentage is listed and, at best, is qualitative. However, these percentages are relative to each other. Data on tremolite or tremolite-like amphibole are also listed but are based mainly on qualitative petrographic work as a frame of reference for future optical work by recent FDA proposal.
4. Results:

A. Chrysotile was not detected in:

Mistron Vapor
Mistron Monomix
Pfizer
Emtal 599
Cyclo-Fil

- B. If the chrysotile content was determined to be 1000 ppm or less, the chrysotile at this stage of the study has to be considered a contaminant. These include:

Yellowstone
Mistron Super Frost
Johnson and Johnson, Vermont
Cyclo-Sorb
Johnson and Johnson Baby Powder

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- C. The only samples which contain chrysotile believed to be part of the mineralogical system at this stage of the study are:

Fibrene C-400
Asbestine 5X
Nytal 300
Italian Cosmetic Talc

5. In many of the electron micrographs, distinctly fibrous material appears, even though chrysotile and tremolite are not reported. These "fibers" are talc verified, either during process of scanning or by reviewing TEM plates under a binocular microscope.

V. E. Wolkodoff
V. E. Wolkodoff

jmw
Attachment

cc:

J. M. Sharratt - 2 West
W. L. VanDerbeek - 2 West
P. A. Martinson - 2 West
R. M. Hutchison - 2 West
✓ F. L. Pundsack - R&D Ctr
S. Speil - R&D Ctr
W. C. Streib - R&D Ctr
J. P. Leineweber - R&D Ctr
Notebook No. 4393, p. 4,5

Table 2
Detection of Chrysotile by TEM
in Commercial Talcs

Sample No.	Product	% Chrysotile, by Volume, ppm	Remarks on Chrysotile	Tremolite % by Volume ¹
1	Yellowstone	500	Contamination	0
2	Mistron Vapor	0	---	0
3	Mistron Monomix	0	---	0
4	Mistron Super Frost	<100	Contamination	trace?
5	Fibrene C-4-0	1500	---	5-10%
6	Pfizer	0	---	0
7	Asbestine 5X	>3000	---	30%
8	Nytal 300	>5000	---	present
9	Emtal 599	0	---	0
10	J and J, Vermont	<1000	May be Contamination	0
11	Italian Cosmetic	3000	---	trace?
12	Cyclo-Fil	0	---	20-30%
13	Cyclo-Sorb	approx. 1000	May be Contamination	5-10%
14	J and J Baby Powder	approx. 1000	May be Contamination	0

¹ Although tremolite determination is not intent of this report, crude percentages (based mostly on petrographic examination) are presented to account for log-like fibers in some of the electron micrographs. Unlike chrysotile, tremolite has no particular distinguishing feature other than morphological in some cases when examined by TEM.

Table No. 1

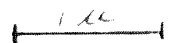
IDENTIFICATION AND TEM DATA ON COMMERCIAL TALCS

Sample No.	Product	Reference No.	TEM Plate Numbers
1	Yellowstone, United Sierra, Montana	D.M. Inc. No. C-38	2144 A, B, and C
2	Mistron Vapor, United Sierra, Montana	D.M. Inc. No. C-104	2145 A, B, and C
3	Mistron Monomix, United Sierra, Montana	D.M. Inc. No. C-25	2146 A, B, and C
4	Mistron Super Frost, United Sierra, Montana	D.M. Inc. No. C-124	2147 A, B, and C
5	Fibrene C-400, United Sierra, Death Valley	D.M. Inc. No. C-108	2148 A, B, and C
6	Charles Pfizer Talc for paper industry	D.M. Inc. No. C-68	2149 A, B, and C
7	Asbestine 5X, International Talc	D.M. Inc. No. C-95	2150 A, B, and C
8	Nyral 300, R. T. Vanderbuilt	D.M. Inc. No. C-109A	2151 A, B, and C
9	Emtal 599, Englehard	D.M. Inc. No. C-13	2152 A, B, and C
10	Johnson & Johnson, Green Mt., Vermont	D.M. Inc. No. C-14	2153 A, B, and C
11	Italian Talc e Grafite Val Chisone	J-M No. RE-73166-18	2154 A, B, and C
12	Cyclo-Fil, J-M for paper	D.M. Inc. No. Std. 70-34	2155 A, B, and C
13	Cyclo-Sorb, J-M for paper	D.M. Inc. No. Std. 70-33	2156 A, B, and C
14	Johnson & Johnson Baby Powder	J-M No. RC-73219-1	2157 A, B, and C

NOTE: All TEM prints are at magnification of 20,000 X (2 cm equals 1 micron).



Yellowstone Talc



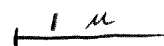
EM2144A

20,000 X

CRMC-Talc-Micro-001375



Yellowstone Talc
EM2144B 20,000 X





Yellowstone Talc
EM2144C 20,000 X



Mistron Vapor Talc
EM2145A 20,000 X



Mistrion Vapor Talc

EM12145B

20,000 X



Mistron Vapor Talc

EM2145C

20,000 X



Mistrion Monomix Talc

EM2146A

20,000 X





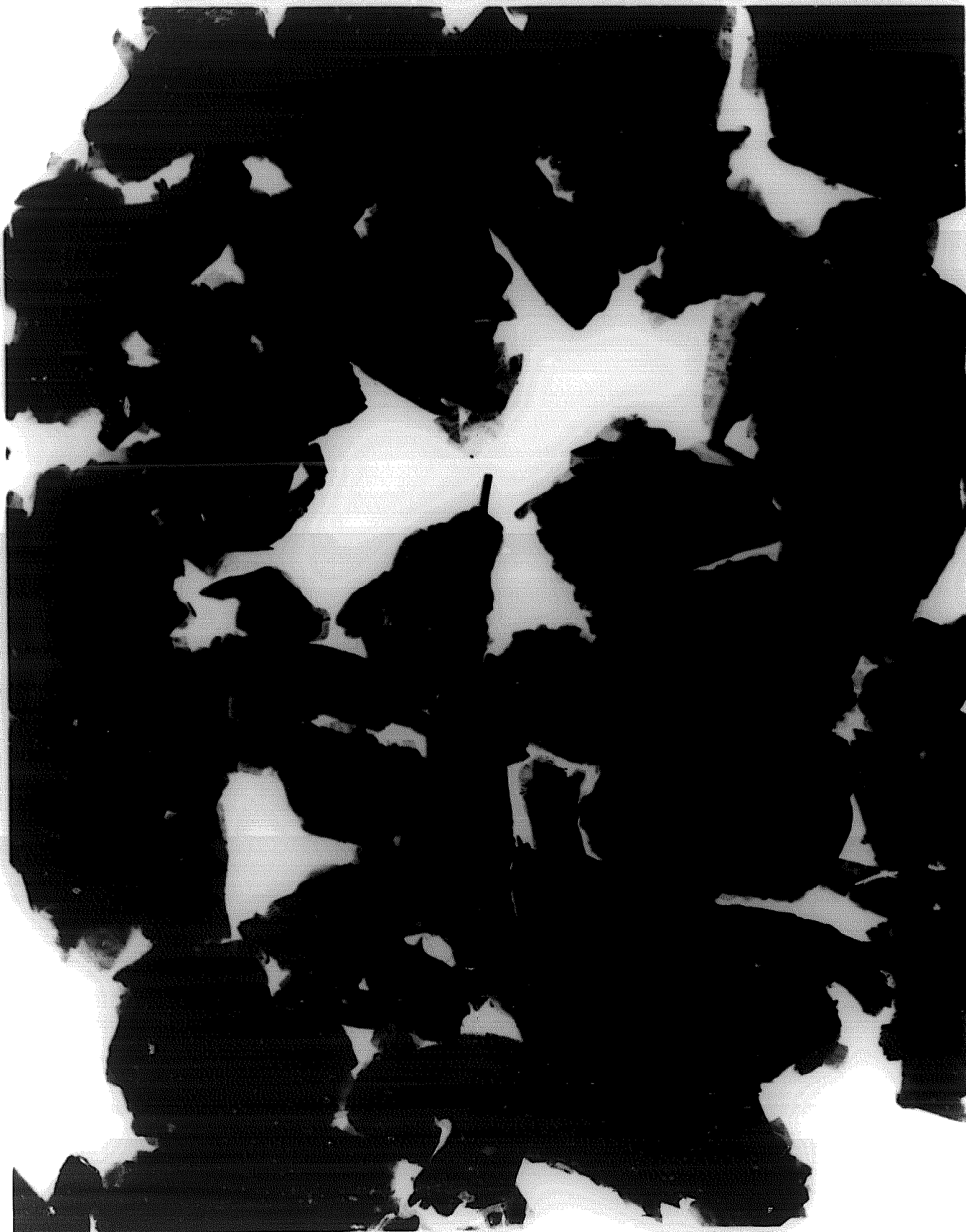
Mistrion Monomix Talc
E712146B 20,000 X



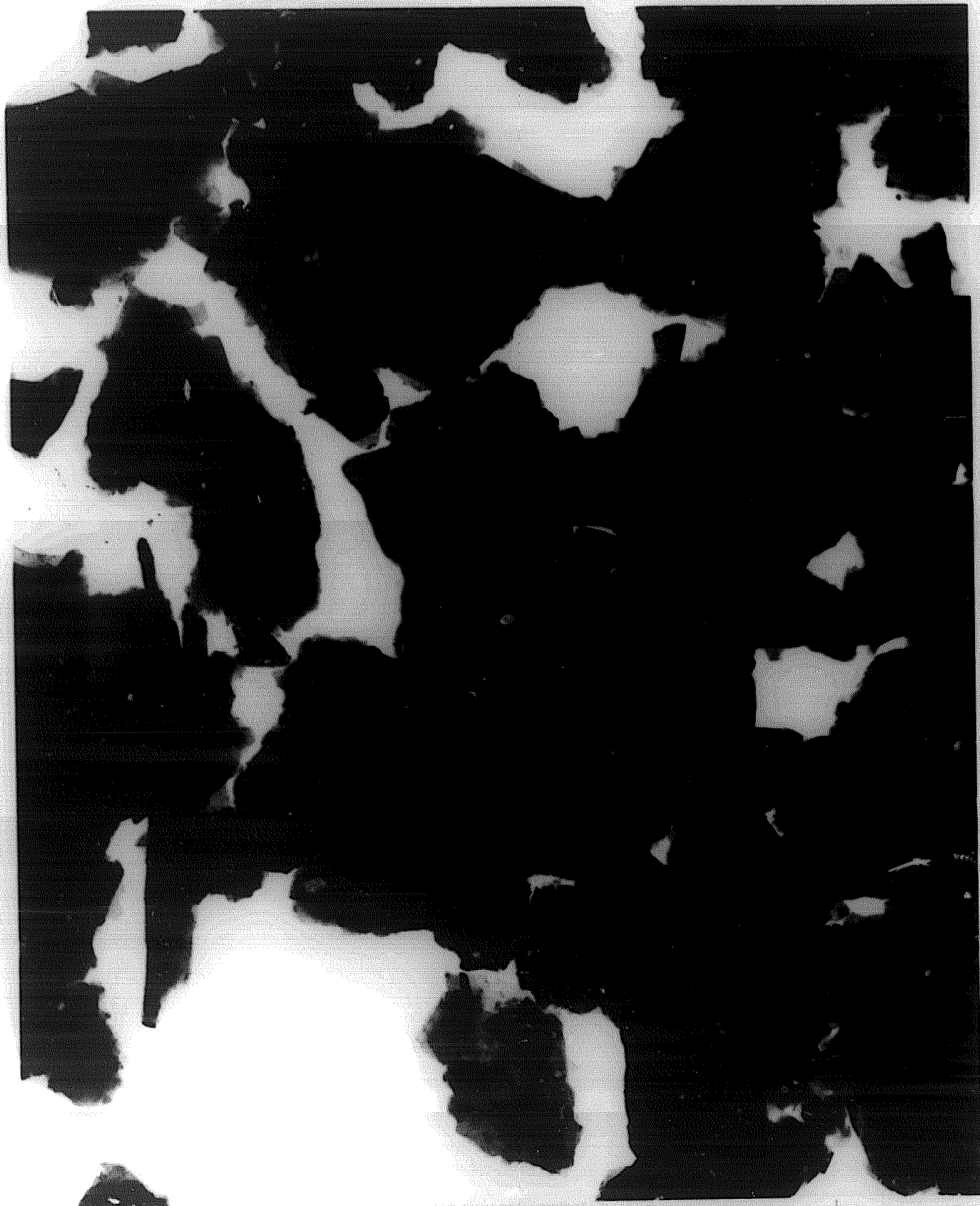
Mistran Monomix Talc
EM2146C 20,000 X



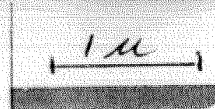
Mistrion Super Frost Talc
EM2147A 20,000 X

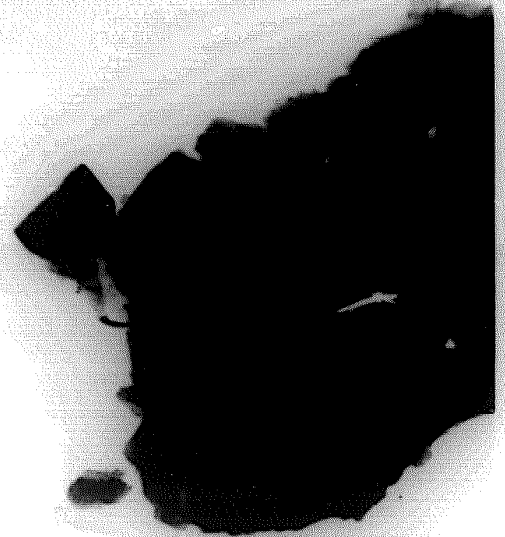
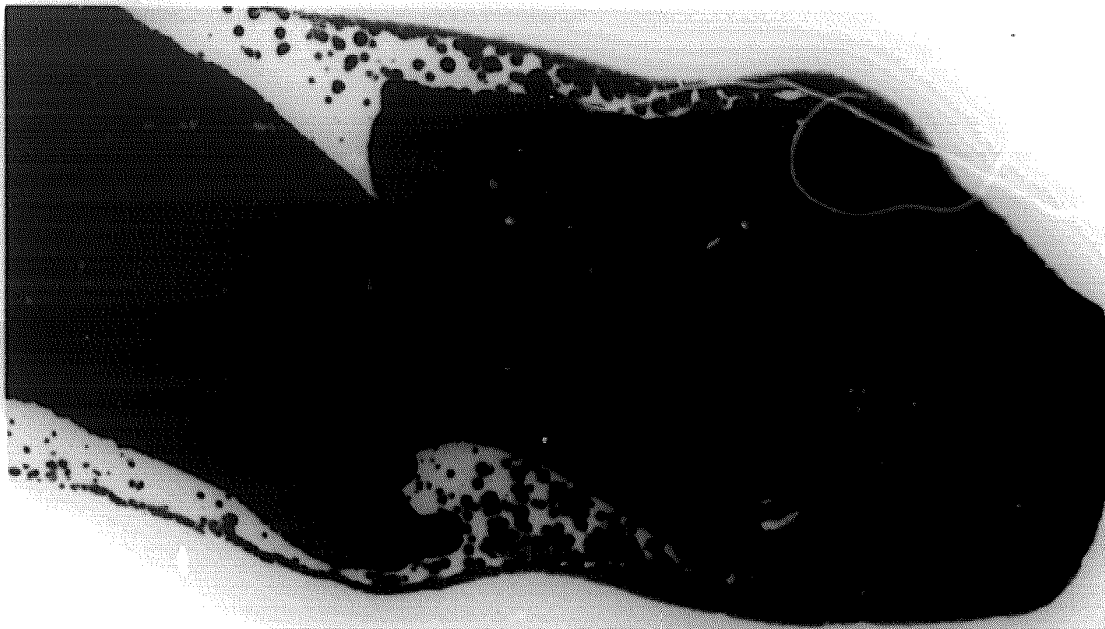


Mistron Super Frost Talc
EM2147B 20,000 X



Mistron Super Frost Talc
EM2147C 20,000 X





Fibrene C-400 Talc

EM2148A

20,000 X





Fibrene C-400 Talc

EM2148B

20,000 X





Fibrene C-400 Talc
EM2148C 20,000 X

1 μ



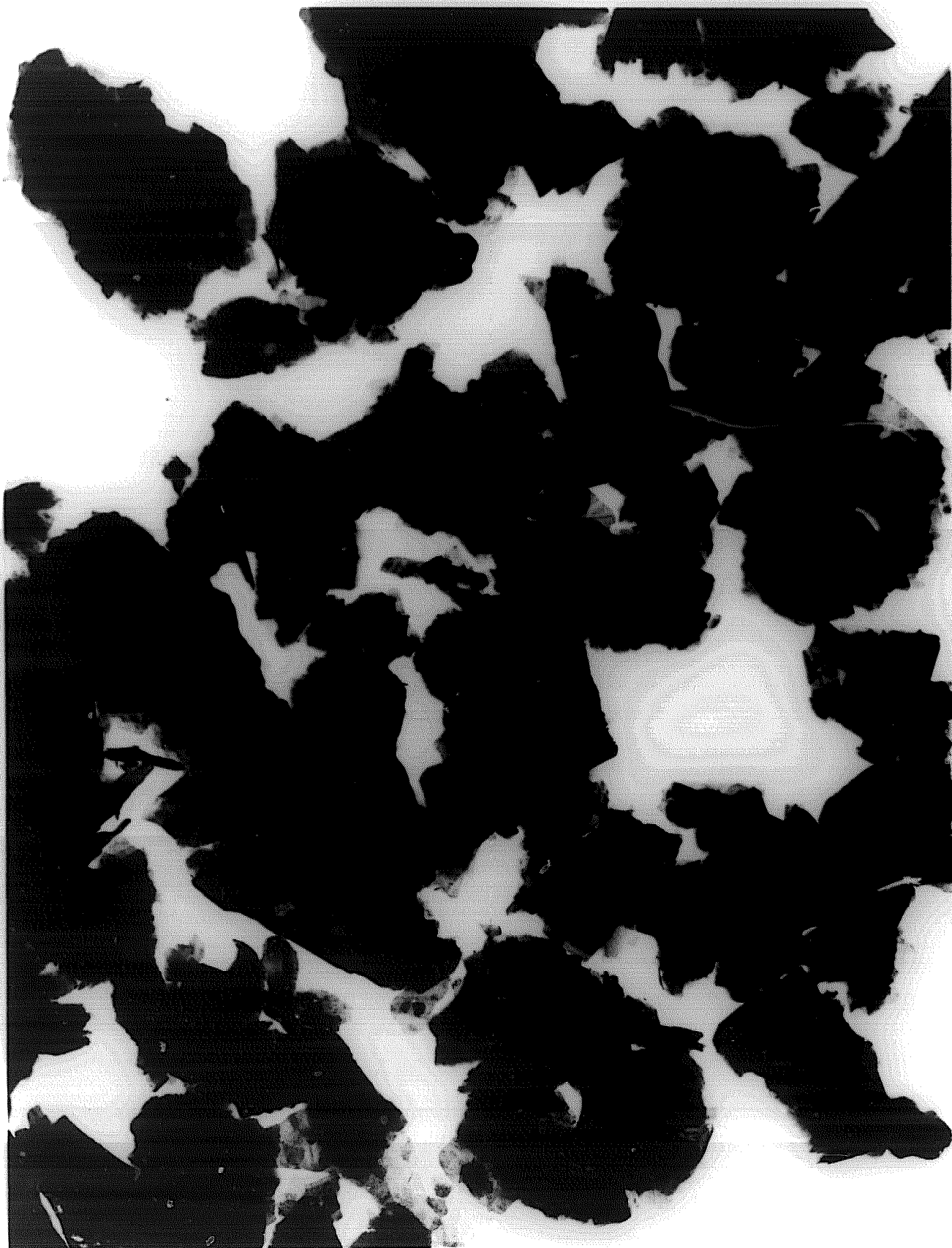
Pfizer Talc

EM2149A

20,000 X



EM2149B Pfizer Talc 20,000 X



EM2149C Pfizer Talc 20,000 X



Asbestine 5X Talc
EM2150A 20,000 X



Asbestine 5X Talc
EM2150B 20,000 X





Asbestine 5X Talc
EM2150C 20,000 X



Nytal 300 Talc
EM2151A 20,000 X



Nyal 300 Talc
EM2151B 20,000 X





EM2151C Nytal 300 Talc 20,000 X





LM2152A Emtal 599 Talc 20,000 X



Panel 500 Talc
10,000x



EM2152C Emtal 599 Talc 20,000 X





J and J, Green Mt., Vt. Talc
EM2153A 20,000 X





and J. Green Mt., N.Y. Talc
10,000 X



J and J, Green Mt., Vt. Talc
EM2153C 20,000 X





Italian Cosmético Talc
E121547 20,000 X



Italian Cosmetic Talc
EM2154B 20,000 X



Italian Cosmetic Talc
EM2154C 20,000 X

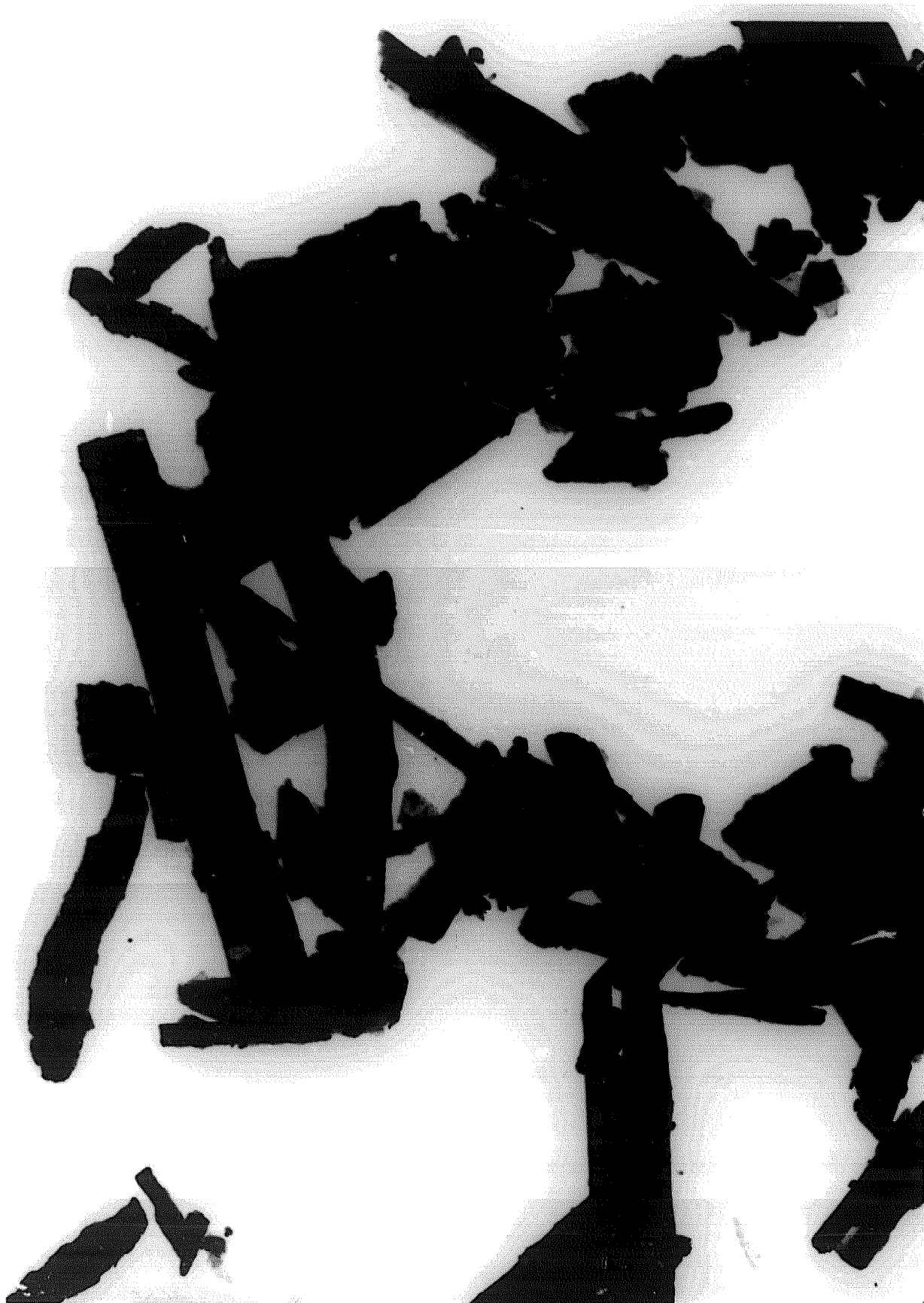




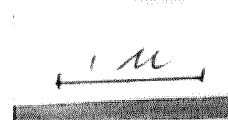
J-M Cyclo-Fil Talc
EM2155 20,000 X



J-M Cyclo-Fil Talc
FM2155B 20,000 X



J-M Cyclo-Fil Talc
EM2155C 20,000 X





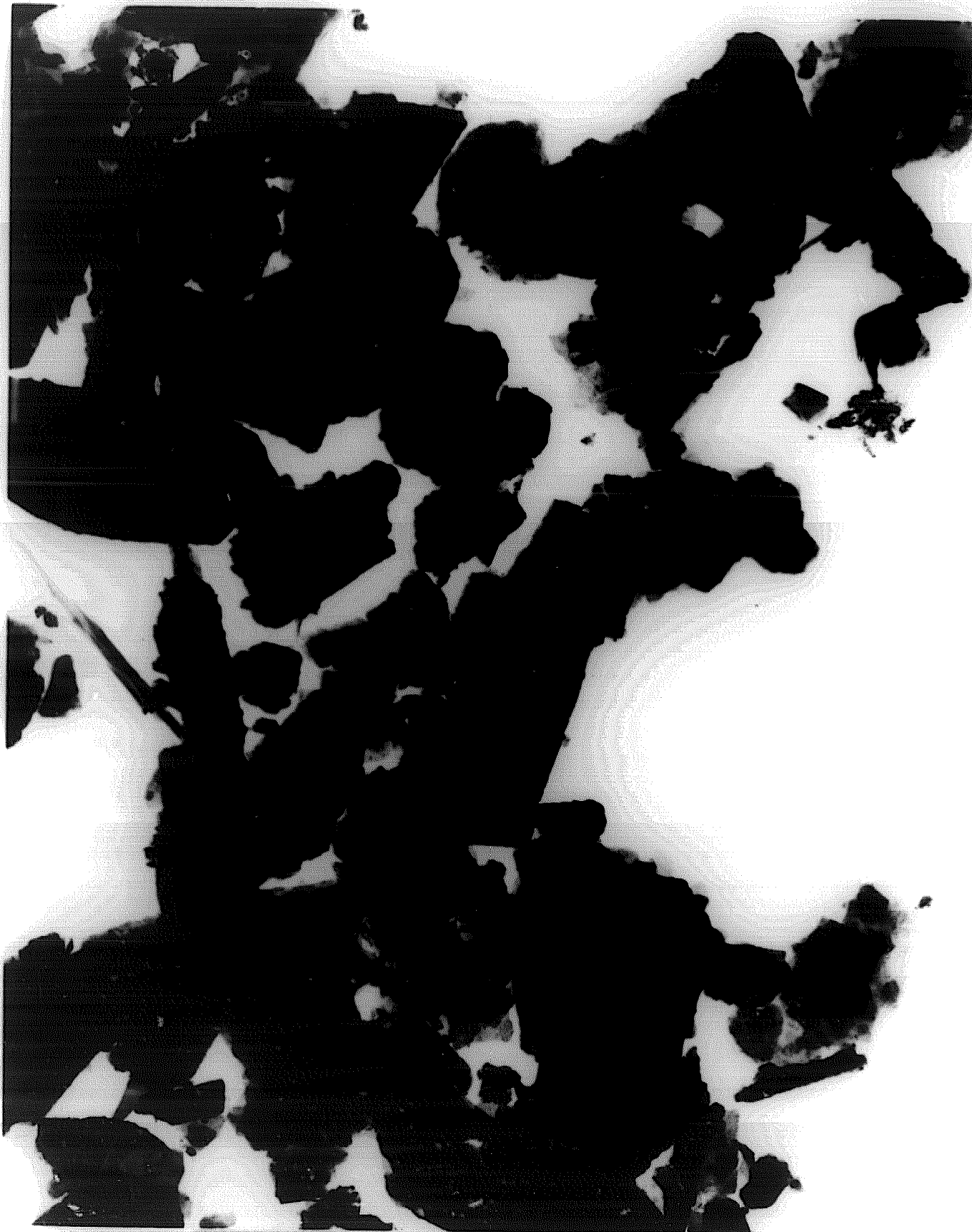
J-M Cyclo-Sorb Talc
EM2156A 20,000 X





J-M Cyclo-Sorb Talc
EM2156B 20,000 X





J-M Cyclo-Sorb Talc
EM2156C 20,000 X



1. and 3. Micro Powder
1/121 7A 2/1/1971



J and J Baby Powder
E12157B



J and J Baby Powder
EM2157C 20,000 X

AFFIDAVIT

I, Margaret J. Baumgardner, being of full age and first duly sworn do hereby state:

1. I am not a party to this action. I have personal knowledge of the facts set forth in this affidavit, and if called as a witness, I could and would competently testify as to the truth of the matters set forth herein.

2. I am the Research Coordinator for the Claims Resolution Management Corporation ("CRMC"), a wholly owned subsidiary of the Manville Personal Injury Settlement Trust ("Trust"). The CRMC was created in December 1998 and is staffed by former Trust employees. On January 1, 1999, CRMC began providing claims resolution facility services to the Trust.

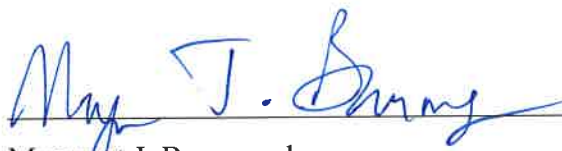
3. In this position, I manage the Asbestos Claims Research Facility ("Facility"), a document and records repository located at 3390 Peoria Street, Suite 304, Aurora, Colorado. The Facility contains the business records including but not limited to correspondence, memoranda, reports, records and data compilations ("record") of Manville Corporation or related entities ("Manville"), generally, as well as Manville records relevant to litigation of asbestos liability. The records found at the Facility were transferred from Manville to the Trust beginning in November 28, 1988, the date on which the Manville bankruptcy plan was consummated. Additional records have been and continue to be transferred directly to the Facility. The Facility's records have been in the custody and control of counsel for the Trust or Trust personnel since the date of consummation.

4. My experience and familiarity with the documents at the Facility began in 1983 while working for Manville. In my work as a paralegal for Manville, I assisted in locating, indexing and packing many of the records which became the foundation documents for the Facility. I continued to work for Manville until September 1987. From March 1988 to September 1988, I was hired to supervise and assist in the indexing of the first 20,000 boxes which were turned over to the Trust in November 1988. From September 1988 to January 1989, I assisted in the privilege review of documents to be given to the Trust. From November 1988 to April 1994, I worked for Freeborn & Peters and was put in charge of the Facility, managing all productions and "new" acquisitions. In September 1995, I was hired by the Trust to manage the Facility. In December 1998, I was hired by

the CRMC to manage the Facility for the Trust. Accordingly, I am personally familiar with many of the records stored at the Facility, as well as how the records have been gathered.

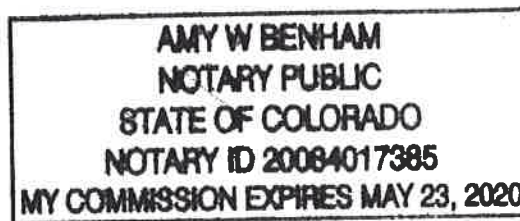
5. To the best of my knowledge, information and belief, or from information transmitted by a person with knowledge, I certify that these records were made at or near the date they are identified, were kept in the course of the regularly conducted business activity of Manville, and it was the regular practice and the business activity of Manville to make the records.

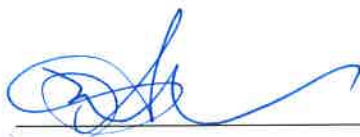
6. Attached are documents found among the microfilm collections at the Facility. These documents, bates labeled CRMC-Talc-Micro-000001 through CRMC-Talc-Micro-005259, are true and correct copies of documents found at the Facility.


Margaret J. Baumgardner

STATE OF COLORADO)
) ss.
COUNTY OF ARAPAHOE)

Subscribed and sworn to before
me this 27th day of January, 2017.




Notary Public