

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                               |                 |                                                                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|-----------------|-------------------------------------------------------------------------------------|--|
| <b>REPORT DOCUMENTATION PAGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <b>1. REPORT NO.</b><br>IWS-32.44             | <b>2.</b><br>NA |  |  |
| <b>4. Title and Subtitle</b><br>Analysis of Personal Samples at Johns-Manville, Long Beach, California                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                               |                 | <b>5. Report Date</b><br>June, 1971                                                 |  |
| <b>7. Author(s)</b><br>Weidner, R. B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |                 | <b>6.</b><br>NA                                                                     |  |
| <b>9. Performing Organization Name and Address</b><br>NIOSH, Division of Surveillance, Hazard Evaluations, and Field Studies, Industry-wide Studies Branch, U. S. Department of HEW, Cincinnati, Ohio                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |                 | <b>8. Performing Organization Rept. No.</b><br>NA                                   |  |
| <b>12. Sponsoring Organization Name and Address</b><br>Same as Above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                               |                 | <b>10. Project/Task/Work Unit No.</b><br>NA                                         |  |
| <b>15. Supplementary Notes</b><br><br>NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                               |                 | <b>11. Contract(C) or Grant(G) No.</b><br>(C) NA<br>(G)                             |  |
| <b>16. Abstract (Limit: 200 words)</b><br><br>Worker exposures to asbestos (1332214) were surveyed in May and June, 1970, at Johns-Manville Corporation (SIC-3292) in Long Beach, California. In the asbestos cement pipe facility, asbestos concentrations in personal air samples ranged from 0.0 to 2.1 fibers greater than 5 microns per cubic centimeter (f/cc). Asbestos concentrations in personal air samples from the insulation area ranged from 0.1 to 1.9f/cc. All samples were below the 1970 threshold limit value of 5 fibers greater than 5 microns in length per milliliter. |  |                                               |                 | <b>13. Type of Report &amp; Period Covered</b><br>Industry-wide Study               |  |
| <b>17. Document Analysis a. Descriptors</b><br><br>Field-study,<br>Asbestos-dusts, Dust-exposure, Health-survey, Industrial-health,<br>Dust-analysis, Air-sampling, Insulation-workers, Standards                                                                                                                                                                                                                                                                                                                                                                                             |  |                                               |                 | <b>14.</b><br>NA                                                                    |  |
| <b>b. Identifiers/Open-Ended Terms</b><br><br><div style="border: 1px solid black; height: 40px; width: 100%;"></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |                 |                                                                                     |  |
| <b>c. COSATI Field/Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                               |                 |                                                                                     |  |
| <b>18. Availability Statement</b><br>Available to the Public                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <b>19. Security Class (This Report)</b><br>NA |                 | <b>21. No. of Pages</b><br>4                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>20. Security Class (This Page)</b>         |                 | <b>22. Price</b>                                                                    |  |



## **GENERAL DISCLAIMER**

**This document may be affected by one or more of the following statements**

- **This document has been reproduced from the best copy furnished by the sponsoring agency. It is being released in the interest of making available as much information as possible.**
- **This document may contain data which exceeds the sheet parameters. It was furnished in this condition by the sponsoring agency and is the best copy available.**
- **This document may contain tone-on-tone or color graphs, charts and/or pictures which have been reproduced in black and white.**
- **This document is paginated as submitted by the original source.**
- **Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.**



XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
National Institute for Occupational Safety and Health  
1014 Broadway, Cincinnati, Ohio 45202  
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

June 5, 1971

Mr. C. L. Sheckler  
Johns-Manville Corporation  
22 East 40th Street  
New York, New York

Dear Mr. Sheckler:

The analysis of the air samples taken at Stockton and Long Beach in May and June of 1970 has been completed. The analysis was done using the membrane filter method at 430X magnification phase contrast illumination. Tables of the results are enclosed. The 1970 American Conference of Governmental Industrial Hygienists' List of Threshold Limit Values of Airborne Contaminants includes asbestos in section of intended changes. The new TLV is five fibers greater than five microns in length per ml. As you will note all samples taken in these plants were below this value.

If I can be of assistance in the future, please feel free to contact me.

Sincerely yours,

Robert B. Weidner  
Assistant Chief  
Field Studies Branch  
National Institute for Occupational  
Safety and Health

Enclosure

-2-

ANALYSIS OF PERSONAL SAMPLESJOHNS-MANVILLE, LONG BEACH, CALIFORNIA

## ASBESTOS-CEMENT PIPE

| <u>OPERATION</u>       | <u>SAMPLE</u> | <u>CONC. (FIBERS &gt;5<math>\mu</math>/cc)</u> |
|------------------------|---------------|------------------------------------------------|
| Warehousing and Mixing | 130           | 0.8                                            |
|                        | 134           | 3.7                                            |
|                        | 136           | 0.9                                            |
|                        | 162           | 1.3                                            |
|                        | 164           | 1.3                                            |
| Pipe Forming           | 124           | 1.2                                            |
|                        | 125           | 0.7                                            |
|                        | 126           | 0.8                                            |
|                        | 133           | 1.1                                            |
|                        | 139           | 0.9                                            |
|                        | 143           | 0.5                                            |
|                        | 158           | 0.3                                            |
|                        | 161           | 0.4                                            |
|                        | 163           | 1.4                                            |
| Curing                 | 170           | 1.2                                            |
|                        | 103           | 1.5                                            |
|                        | 108           | 0.7                                            |
|                        | 116           | 1.9                                            |
|                        | 122           | 2.1                                            |
|                        | 129           | 0.8                                            |
|                        | 135           | 0.5                                            |
|                        | 141           | 0.6                                            |
|                        | 142           | 0.5                                            |
|                        | 144           | 1.2                                            |
|                        | 146           | 0.7                                            |
|                        | 147           | 0.9                                            |
|                        | 155           | 0.3                                            |
|                        | 157           | 0.5                                            |
|                        | 165           | 0.7                                            |
|                        | 166           | 0.3                                            |
| Pipe Finishing         | 100           | 1.9                                            |
|                        | 101           | 1.0                                            |
|                        | 105           | 0.6                                            |
|                        | 112           | 0.4                                            |
|                        | 113           | 0.8                                            |
|                        | 115           | 0.8                                            |
|                        | 118           | 0.6                                            |
|                        | 121           | 1.8                                            |
|                        | 123           | 1.2                                            |

| <u>OPERATION</u>            | <u>SAMPLE</u> | <u>CONC. (FIBERS &gt;5μ/cc)</u> |
|-----------------------------|---------------|---------------------------------|
| Coupling Finishing (Cont'd) | 164           | 0.0                             |
|                             | 165           | 0.8                             |
|                             | 166           | 0.4                             |
|                             | 170           | 1.1                             |
|                             | 171           | 0.5                             |
|                             | 172           | 0.7                             |
|                             | 173           | 0.2                             |
| Epoxy                       | 167           | 0.3                             |
| Packing                     | 127           | 0.6                             |
|                             | 129           | 0.2                             |
|                             | 131           | 0.5                             |
|                             | 132           | 0.6                             |
|                             | 134           | 0.5                             |
|                             | 139           | 0.2                             |
|                             | 140           | 0.2                             |
|                             | 141           | 0.2                             |
|                             | 144           | 0.4                             |
|                             | 145           | 0.9                             |
|                             | 146           | 0.6                             |
|                             | 147           | 0.1                             |
|                             | 148           | 0.0                             |
| Miscellaneous               | 101           | 0.4                             |
|                             | 102           | 0.4                             |
|                             | 107           | 1.1                             |
|                             | 109           | 0.2                             |
|                             | 110           | 0.3                             |
|                             | 115           | 0.2                             |
|                             | 119           | 0.4                             |
|                             | 124           | 0.2                             |

4  
ANALYSIS OF PERSONAL SAMPLESJOHNS-MANVILLE, LONG BEACH, CALIFORNIA

34

## INSULATION

| <u>OPERATION</u>       | <u>SAMPLE</u> | <u>CONC. (FIBERS &gt;5<math>\mu</math>/cc)</u> |
|------------------------|---------------|------------------------------------------------|
| Mixing                 | 101           | 1.4                                            |
|                        | 128           | 1.9                                            |
| Forming                | 100           | 0.1                                            |
|                        | 107           | 0.0                                            |
|                        | 108           | 0.0                                            |
|                        | 109           | 0.1                                            |
|                        | 116           | 0.6                                            |
|                        | 126           | 0.2                                            |
|                        | 129           | 0.1                                            |
| Curing                 | 111           | 0.1                                            |
| Finishing              | 119           | 0.1                                            |
|                        | 122           | 0.7                                            |
|                        | 124           | 1.5                                            |
|                        | 127           | 1.4                                            |
| Inspection and Packing | 103           | 0.5                                            |
|                        | 104           | 0.8                                            |
|                        | 105           | 0.2                                            |
|                        | 106           | 0.5                                            |
|                        | 114           | 0.1                                            |
|                        | 115           | 0.1                                            |
|                        | 118           | 0.2                                            |
|                        | 120           | 1.0                                            |
|                        | 123           | 0.1                                            |
|                        | 125           | 0.2                                            |
|                        | 131           | 0.0                                            |
| Miscellaneous          | 102           | 0.1                                            |
|                        | 110           | 0.1                                            |
|                        | 113           | 0.4                                            |
|                        | 117           | 0.1                                            |