



7979 GSRI AVE • BATON ROUGE LA 70820

ASBESTOS FIBER COUNT ANALYSIS

for

DOW CHEMICAL COMPANY  
Louisiana Hwy 1  
Plaquemine, Louisiana 70764

ATTENTION: Jackie Paul

August 3, 1988

lab

88-5070

DO A 116546  
CONFIDENTIAL



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Fourteen (14) filter cassette samples were received on August 1, 1988, from Dow Chemical Company for asbestos fiber count. Fibers larger than 5 microns in length were counted by means of phase-contrast microscopy at a magnification of 400X. The procedure recommended by NIOSH Method 7400A was followed.

Pertinent information regarding fiber counts is as follows:

Field Area: 0.00785 mm<sup>2</sup> (Walton Beckett Graticule)

Effective Collecting Area:

385 mm<sup>2</sup> (25mm Cassette)

855 mm<sup>2</sup> (37mm Cassette)

Limit of Quantitation: 10 fibers/100 fields

Limit of Detection: > Average Blank Count

\* Detection limits are based upon a minimal concentration of 7 fibers/mm<sup>2</sup>.

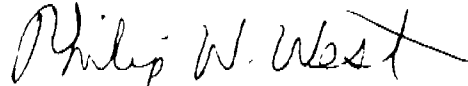
| <u>Sample ID.</u> | <u>Fibers</u><br><u>(&gt;5um)</u><br><u>Observed</u> | <u>No. of</u><br><u>Fields</u><br><u>Observed</u> | <u>Fibers</u><br><u>per</u><br><u>Filter</u> | <u>Volume</u><br><u>of</u><br><u>Air (L)</u> | <u>Fibers</u><br><u>(&gt;5um)</u><br><u>per c.c.</u><br><u>of Air</u> |
|-------------------|------------------------------------------------------|---------------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------|
| 09038             | 75 - 2 = 73                                          | 100                                               | 35,803                                       | -----                                        | -----                                                                 |
| 09039             | 25 - 2 = 23                                          | 100                                               | 11,280                                       | -----                                        | -----                                                                 |
| 09040             | 22 - 2 = 20                                          | 100                                               | 9,809                                        | -----                                        | -----                                                                 |
| 09041             | 21 - 2 = 19                                          | 100                                               | 9,319                                        | -----                                        | -----                                                                 |
| 09042             | 17 - 2 = 15                                          | 100                                               | 7,357                                        | -----                                        | -----                                                                 |
| 09043             | 8 - 2 = 6                                            | 100                                               | 2,943                                        | -----                                        | -----                                                                 |
| 09044             | 12 - 2 = 10                                          | 100                                               | 4,905                                        | -----                                        | -----                                                                 |
| 09045             | 280                                                  | 20                                                | 685,643                                      | -----                                        | -----                                                                 |
| 09046             | 13 - 2 = 11                                          | 100                                               | 5,395                                        | -----                                        | -----                                                                 |

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|-------------------|------------------------------------------------------|---------------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------|
| 09047             | 15 - 2 = 13                                          | 100                                               | 6,376                                        | -----                                        | -----                                                                 |
| 09048             | 94 - 2 = 92                                          | 100                                               | 45,122                                       | -----                                        | -----                                                                 |
| 09049             | 100                                                  | 30                                                | 162,501                                      | -----                                        | -----                                                                 |
| Blank             | 4                                                    | 100                                               | 1,962                                        | -----                                        | -----                                                                 |
| Blank             | 0                                                    | 100                                               | <490                                         | -----                                        | -----                                                                 |

  
Philip W. West, Ph.D.  
Laboratory Director

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