



Dow U.S.A.

The Dow Chemical Company
P O Box 150
Plaquemine, Louisiana 70765-0150

November 18, 1992

Don Denova Environmental Operations Building 8010

Asbestos Monitoring

Enclosed are sample results for potential exposure to asbestos.

The OSHA 8-hour permissible exposure limit for asbestos is 0.2 f/cc >5 microns and the 30-minute short term exposure limit is 1 f/cc >5 microns.

The results displayed are based on sampling duration.

The data sheet shows the results of exposure using two methods, the Limit of Detection (LOD) and the Limit of Quantitation (LOQ). Included on the data sheet is an explanation of the method Limit of Quantitation.

Thank you,

Darlene S. Creel

Darlene S. Creel
Industrial Hygiene
Ext. 6181
Building 3502-W

Attachment

dsc

DO A 115059
CONFIDENTIAL

PRODUCED FOR THE ASBESTOS DATABASE

DATE:

11/18/92

MASTER No.

433871

DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 12651

PLANT/DEPT. ENVIRONMENTAL OPERATIONS
MONITORING FOR: Blank

DATE 10/22/92
OTHER CHEMICALS PRESENT: N/A

SAMPLE COLLECTION MEDIA:
☐ BADGE NO. _____ TYPE _____
TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 25 mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

PUMP SERIAL NO. _____
CALIBRATION DEVICE: ☐ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. _____
2. _____
3. _____

BEGINNING FLOW RATE AVG. _____ ☐ CC/MIN ☐ L/MIN
ENDING: 1. _____
2. _____
3. _____

ENDING FLOW RATE AVG. _____ ☐ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE _____

TIME STARTED _____
TIME STOPPED _____
TOT. RUNNING TIME(MIN) _____

SAMPLE VOLUME (AVG FLOW X RUN TIME) _____

SHIFT: ☐ 8 HR. ☐ 12 HR. ☐ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASK

EMPLOYEE NAME _____
EMPLOYEE I.D.# _____
JOB CLASSIFICATION _____
IH JOB CODE # _____
CONTRACTOR COMPANY _____

RESPIRATOR USED? ☐ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE _____
☐ MOUTH-BIT ☐ DUST ☐ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA
DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING _____

ANALYTICAL REPORT REFERENCE # 20-8126
ANALYTICAL RESULTS: WestPaine Labs 2490

* RESTRICTED FOR USE WITHIN DOW ONLY *

FORM FILLED IN BY: _____

DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE NO 12650

PLANT/DEPT. ENVIRONMENTAL OPERATIONS
MONITORING FOR: Asbestos

DATE 10/22/92
OTHER CHEMICALS PRESENT: N/A

SAMPLE COLLECTION MEDIA:
☐ BADGE NO. _____ TYPE _____
TEMP/HUMIDITY: (REQUIRED FOR BADGES) _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 25 mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

PUMP SERIAL NO. SN 5122
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 1.991
2. 1.992
3. 1.991

BEGINNING FLOW RATE AVG. 1.99 ☐ CC/MIN ☒ L/MIN
ENDING: 1. 1.963
2. 1.963
3. 1.964

ENDING FLOW RATE AVG. 1.96 ☐ CC/MIN ☒ L/MIN

SAMPLE AVERAGE FLOW RATE 1.98

TIME STARTED 0705
TIME STOPPED 0805
TOT. RUNNING TIME(MIN) 480 min

SAMPLE VOLUME (AVG FLOW X RUN TIME) 950

SHIFT: ☒ 8 HR. ☐ 12 HR. ☐ PERSONNEL SAMPLE ☐ AREA SAMPLE
☒ FULL SHIFT TWA
☐ STEL/TASK

EMPLOYEE NAME Larry White
EMPLOYEE I.D.# 748 SSN 436-25-9579
JOB CLASSIFICATION Env. Oper.
IH JOB CODE # _____
CONTRACTOR COMPANY River Valley

RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE Msa/Canister / Combination
☐ MOUTH-BIT ☐ DUST ☐ HALF-FACE GMC-11
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Covering Packaged/Packed Asbestos
MATERIAL IN Solid Waste Landfill with dirt

ANALYTICAL REPORT REFERENCE # 20-8126
ANALYTICAL RESULTS: WestPaine Labs 5395 10.01 10.04

* RESTRICTED FOR USE WITHIN DOW ONLY *

FORM FILLED IN BY: New Orleans

DO A 115060
CONFIDENTIAL

Exposure Guidelines

8-HR. TWA Limit - 0.20 Fib/cc

30-Minute Limit = 1.0 Fib/cc

****LOD** Limit of Detection = 7 Fib/mm2*****LOQ** Limit of Quantitation = 100 Fib/mm2**ASBESTOS MONITORING DATA RESULTS: Environmental Operations 1992**

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
10/22/92	12650	*436-25-9579	Equipment Operator: Covering packaged/bagged asbestos material in solid waste landfill with dirt	480	950	0.01	<0.04
10/22/92	12651	BLANK	BLANK	BLANK	BLANK	BLANK	BLANK

* The proper protective clothing was worn during the job. Half-face MSA Comfo II Respirator with combination cartridges Gmc-H filters were worn during the job.

Note: The Limit of Quantitation has been defined as 100 Fibers/MM2 using the minimum fiber loading criteria specified. In the NIOSH analytical method 7400, the stated range of the method is 100 to 1300 Fibers/MM2 filter area. Although samples below this range can be analyzed, the method has not been validated below 100 Fibers/MM2. However, the NIOSH method 7400 also establishes the estimated Limit of Detection as 7 Fibers/MM2 (Reference OSHA Std. 1910.1001, Appendix B). Based on this information, we will establish 100 Fibers/MM2 filter area as our Limit of Quantitation and 7 Fibers/MM2 filter area as our Limit of Detection (which is more representative of the actual fibers present) for asbestos monitoring. We will report both Limit of Quantitation and Limit of Detection.

If only Limit of Quantitation were expressed, the minimum reportable result would calculate to be 0.04 Fibers per cc for an 8-hr. Time weighted average sample at a flow rate of 2 liters per minute and 0.6 fibers per cc for a 30 minute time weighted average short term sample at a flow rate of 2 liters per minute.

DO A 115061
CONFIDENTIAL



7979 GSRI AVE. • BATON ROUGE, LA 70820

ASBESTOS FIBER COUNT ANALYSIS

FOR

**DOW CHEMICAL
P O BOX 500
Plaquemine, LA 70765-0500
ATTENTION: Darlene S. Creel**

October 29, 1992

ppe

208126

DO A 115062
CONFIDENTIAL



7979 GSRI AVE. • BATON ROUGE, LA 70820

DOW CHEMICAL
Plaquemine, LA

October 29, 1992

Three (3) filter cassette samples were received on October 27, 1992 from Dow Chemical for 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 mm² (Walton Beckett Graticule)

Effective Collecting Area:

385 mm² (25 mm Cassette)

855 mm² (37 mm 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/mm².

Sample I.D.	Fibers (>5um) Observed	No. of Fields Observed	Fibers per Filter	Volume of Air (L)	Fibers (>5um) per c.c. of Air
----------------	------------------------------	------------------------------	-------------------------	-------------------------	--

ENIV. OPRS:

12650	11	100	5,395	-----	-----
12651	0	100	<490	Blank #1	-----
Blank #2	0	100	<490	-----	-----

Philip W. West
Philip W. West, Ph.D.
Laboratory Director

ppe

208126

DO A 115063
CONFIDENTIAL

WEST PAINE
LABORATORIES INC.
7979 GSRI AVE.
BATON ROUGE, LA 70820

PO # 1593935

MSI # 163662

Sample I.D. :

Env Oprs #12650

Blanks #12651 & #2

CHAIN-OF-CUSTODY RECORD

SAMPLE COLLECTION:

Collector's Name: Darlene S. Creel Telephone: (504) 389-6181

Company Name: Dow Chemical (Industrial Hygiene Bldg. 3502W)

Address: P.O. Box 150, Plaquemine, Louisiana 70765-0500

Date Sampled: 10/22/92 Time: _____

Type of Process or Facility Sampled: Fiber count via NIOSH 7400

Field Information: Filter cassettes for fiber per filters

Env. Oprs - #12650

Blanks #12651 / #2

SAMPLE SHIPPING (other than transportation by collector):

Transporter's Name: Chris Keller Date: 10-26-92 Time: 3:30

Company Name: West Paine Courier

Address: 7979 GSRI AVE.

OCT 27 1992

SAMPLE RECEIVING:

Person accepting sample: Robby Cooper Date: 10/27/92 Time: 0815

Company Name: WEST-PAINE LABORATORIES, INC.

Address: 7979 GSRI AVENUE BATON ROUGE, LOUISIANA 70820 PHONE: (504) 769-4900

Sample Disposition _____ Storage _____ Further Transportation _____ Other _____

CHAIN-OF-POSSESSION: (Attach additional sheets as needed to show continuity)

DO A 115064
CONFIDENTIAL

TERMINATION OF CHAIN OF CUSTODY:

Authorized by: _____ Date: _____ Time: _____

Company/Name: _____ Address: _____

462