



Dow U.S.A.

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

October 7, 1992

Daniel Cortez Petrin Building 4106
Eddie Guillory Petrin

cc: Marty Morrison Power I/Utilities Building 1801

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
Industrial Hygiene
Ext. 6181
Building 3502-W

Attachment

dsc

DO A 115029
CONFIDENTIAL

PRODUCED FOR THE ASBESTOS DATABASE

DATE: 10/07/92

MASTER No. 1433871 NAC

DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 15283

PLANT/DEPT. Pavement
MONITORING FOR: Asbestos Fibers

DATE 9-26-92
OTHER CHEMICALS PRESENT: _____

TEMP. _____ DEGREE F HUMIDITY _____
SAMPLE COLLECTION MEDIA:
☐ BADGE NO. _____ TYPE _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 25 mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

PUMP SERIAL NO. 17072
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:
BEGIN: 1. 2491 2494
2. 2491
3. 2489
BEGINNING FLOW RATE AVG. 2491 ☒ CC/MIN ☐ L/MIN
ENDING: 1. 2471
2. 2413 2409
3. 2415
ENDING FLOW RATE AVG. 2412 ☐ CC/MIN ☐ L/MIN

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

SAMPLE AVERAGE FLOW RATE 2451

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

TIME STARTED 6:30 AM
TIME STOPPED 12:30 PM
TOT. RUNNING TIME(MIN) 360 900

RESPIRATOR USED? ☐ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE _____
☐ MOUTH-BIT ☐ DUST ☐ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

SAMPLE VOLUME (AVG FLOW X RUN TIME) 882.6

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING inside of wind test on Mark #1
ground level - approx. 2' off floor.

ANALYTICAL REPORT REFERENCE # 20-7242
ANALYTICAL RESULTS: 490 0.01
LOQ

FORM FILLED IN BY: Eddie Guilley

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VP-124

DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 15282

PLANT/DEPT. Pavement
MONITORING FOR: Asbestos Fibers

DATE 9-26-92
OTHER CHEMICALS PRESENT: _____

TEMP. _____ DEGREE F HUMIDITY _____
SAMPLE COLLECTION MEDIA:
☐ BADGE NO. _____ TYPE _____
☐ CHARCOAL TUBE SIZE _____
☒ FILTER CASSETTE SIZE 25 mm
☐ SILICA TUBE SIZE _____
☐ DRAGER TUBE TYPE _____
☐ OTHER _____

PUMP SERIAL NO. 9796
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:
BEGIN: 1. 2500 2497
2. 2500
3. 2498
BEGINNING FLOW RATE AVG. 2499 ☒ CC/MIN ☐ L/MIN
ENDING: 1. 2456 2456
2. 2456
3. 2454
ENDING FLOW RATE AVG. 2456 ☐ CC/MIN ☐ L/MIN

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

SAMPLE AVERAGE FLOW RATE 2477

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

TIME STARTED 6:30 AM
TIME STOPPED 12:30 PM
TOT. RUNNING TIME(MIN) 360 900

RESPIRATOR USED? ☐ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE _____
☐ MOUTH-BIT ☐ DUST ☐ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

SAMPLE VOLUME (AVG FLOW X RUN TIME) 891.1

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Inside wind test on Mark #1
ground level - approx. 2' off floor.

ANALYTICAL REPORT REFERENCE # 20-7242
ANALYTICAL RESULTS: 1470 0.01
LOQ

FORM FILLED IN BY: Eddie Guilley

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VP-124

DO A 115030
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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: POWER I 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
9/26/92	15282	Area Sample	Sample taken inside wind box on boiler #1 Ground Level-approx. 2' off floor	360	900	0.01	<0.04
9/26/92	15283	Area Sample	Sample taken inside wind box on boiler #1 Ground Level-approx. 2' off floor	360	900	0.01	<0.04

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.

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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

September 28, 1992

received
10-06-92
D. Creel

ppe

207242

DO A 115032
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7979 GSRI AVE. • BATON ROUGE, LA 70820

DOW CHEMICAL
Plaquemine, LA

September 28, 1992

Four (4) filter cassette samples were received on September 26, 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
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POWER I:

15282	3	100	1,470	891.72	<0.003*
15283	1	100	490	882.36	<0.003*
Blank I	0	100	<490	-----	-----
Blank II	0	100	<490	-----	-----

*Less than the Limit of Quantitation.

for Carolyn Anthony
Philip W. West, Ph.D.
Laboratory Director

ppe

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PO#
MSI# 0298

4-films processed

Power II:
1582, 15283, Blanks

CHAIN-OF-CUSTODY RECORD

SAMPLE COLLECTION:

Location of Sampling: _____

Facility Type: Producer Hauler Disposal Site Other

Collector's Name: Darlene Creel Telephone: (504) 389-618

Company Name: Dow Chemical

Address: Flaguine, LA

Date Sampled: _____ Time: _____

Type of Process ^{Analysed} or Facility Sampled: Fiber Count via NIOSH 7400A

Field Information: _____

SAMPLE SHIPPING (other than transportation by collector):

Transporter's Name: Eddie Guillory Date: 09/26/92 Time: 1430

Company Name: Dow Chemical

Address: _____

SEP 26 1992

SAMPLE RECEIVING:

Person accepting sample: Patty Cooper Date: 09/26/92 Time: 1430

Company Name: WEST-PAINE LABORATORIES, INC.

Address: 7979 GSRI Avenue, Baton Rouge, LA 70820

Sample Disposition _____ Storage _____ Further Transportation _____ Other _____

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

TERMINATION OF CHAIN-OF CUSTODY:

Authorized by: _____ Date: _____ Time: _____

Company/Name: _____ Address: _____

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(Darlene Cray)
Vow Chemical

Dow Chemical

DO A 115035
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09/26/92

FSC

09/26/92

— Call-in —

PO#
MSI# 0298

4-11-81

River I:

1502, 1503, 1504

CHAIN-OF-CUSTODY RECORD

SAMPLE COLLECTION:

Location of Sampling: _____

Facility Type: _____ Producer _____ Harver _____ Disposal Site _____ Other _____

Collector's Name: Darlene Paul Telephone: 404-380-

Company Name: Dave Chemical

Address: Laqueune, LA

Date: _____ Time: _____

Type of Sample: Water Sampled: Fiberboard via M-1251/100

Field Information: _____

SAMPLE SHIPPING (When ship transportation by collector):

Transporter's Name: Elder & Smith Date: 4/21/81

Company Name: Dave Chemical

Address: _____

SAMPLE RECEIVING:

Person accepting sample: Vally Carson Date: 4/21/81

Company Name: WEST-PAINE LABORATORIES, INC.

Address: 7079 GSR Avenue, Baton Rouge, LA 70820

Sample Disposition _____ Storage _____ Further Transportation _____ Other _____

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

TERMINATION OF CHAIN-OF CUSTODY:

Authorized by: _____ Date: _____ Time _____

Company/Name: _____ Address: _____