



Dow U.S.A.

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

April 8, 1992

Daniel Cortez Petrin Building 4106
Eddie Guillory Petrin

cc: Dane D'Armond LHC III Building 6801

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-E

Attachment

dsc

DO A 114962
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PRODUCED FOR THE ASBESTOS DATABASE

DATE: 4-9-92
MASTER No. 433871 P8C



LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 13476

PLANT/DEPT. 1-HC TIL
MONITORING FOR: Asbestos Fibers

SAMPLE COLLECTION MEDIA:

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

SHIFT: ☒ 8 HR. ☐ 12 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASKEMPLOYEE NAME Harold Fallow
EMPLOYEE I.D.# 434-90-8022
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petric Corp.RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/keps
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBADESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Removing 4" transit panels from floor
about office in warehouse. Wet methodANALYTICAL REPORT REFERENCE # _____
ANALYTICAL RESULTS: 6.866

* RESTRICTED FOR USE WITHIN DOW ONLY *

LOD
VP-124DATE 3-28-92
OTHER CHEMICALS PRESENT: _____PUMP SERIAL NO. 5122
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2588 2584
2. 2590
3. 2586BEGINNING FLOW RATE AVG. 2587 ☒ CC/MIN ☐ L/MINENDING: 1. 2518
2. 2514 2500
3. 2502ENDING FLOW RATE AVG. 2504 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2548TIME STARTED 8:00 AM
TIME STOPPED 8:30 AM
TOT. RUNNING TIME(MIN) 30 minSAMPLE VOLUME (AVG FLOW X RUN TIME) 76FORM FILLED IN BY: Goldie KilbeyDO A 114963
CONFIDENTIAL



LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 13477

PLANT/DEPT. CHC T11
MONITORING FOR: Asbestos FibersDATE 3-28-92
OTHER CHEMICALS PRESENT: _____

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. 9796
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2582 2573
2. 2549
3. 2575BEGINNING FLOW RATE AVG. 2582 ☒ CC/MIN ☐ L/MIN
ENDING: 1. 24642. 2450 2465
3. 2456ENDING FLOW RATE AVG. 2460 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2521TIME STARTED 12:30 PM
TIME STOPPED 1:00 PM
TOT. RUNNING TIME(MIN) 30 minSAMPLE VOLUME (AVG FLOW X RUN TIME) 76EMPLOYEE NAME Wes Howard
EMPLOYEE I.D.# 439-31-5889
JOB CLASSIFICATION Insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petrin CorpRESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 700 w/hepa
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING

Removal of transit panels from floor above office in warehouse. Wet Method

ANALYTICAL REPORT REFERENCE # _____

ANALYTICAL RESULTS: 4.414
West Point Sal
* RESTRICTED FOR USE WITHIN DOW ONLY *0.06
LOD
VP-1246.51
LOD
FORM FILLED IN BY: Eddie GuilloryDO A 114964
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LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE No 13478

PLANT/DEPT. LHC III
MONITORING FOR: Asbestos FibersDATE 3-28-92
OTHER CHEMICALS PRESENT: _____

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. 073191B04
CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2566 2599
2. 2582
3. 2577BEGINNING FLOW RATE AVG. 2576 ☒ CC/MIN ☐ L/MINENDING: 1. 2465 2462
2. 2465
3. 2467ENDING FLOW RATE AVG. 2465 ☒ CC/MIN ☐ L/MINSAMPLE AVERAGE FLOW RATE 2520TIME STARTED 8:30 AM
TIME STOPPED 9:00 AM
TOT. RUNNING TIME(MIN) 30 minSAMPLE VOLUME (AVG FLOW X RUN TIME) 75SHIFT: ☒ 8 HR. ☐ 12 HR. ☒ PERSONNEL SAMPLE ☐ AREA SAMPLE
☐ FULL SHIFT TWA
☐ STEL/TASKEMPLOYEE NAME Goran Gargano
EMPLOYEE I.D.# 595-38-3488
JOB CLASSIFICATION insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Petrica corpRESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 700 w/lyper
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING

Removing 4" transit panels from floor above office in warehouse. Wet method.

ANALYTICAL REPORT REFERENCE # _____

ANALYTICAL RESULTS: 6866
West Lane Rd
* RESTRICTED FOR USE WITHIN DOW ONLY *0.09
LOD
VP-12440.51
LOQ
FORM FILLED IN BY: Eddie GrubbsDO A 114965
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EXPOSURE GUIDELINES

8-HR. TWA LIMIT - 0.20 FIB/CC

30-MINUTE LIMIT = 1.0 FIB/CC

LIMIT OF DETECTION = 7 FIB/MM2

LIMIT OF QUANTITATION = 100 FIB/MM2

**LOD

***LOQ

ASBESTOS MONITORING DATA RESULTS: LHC III 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
3/28/92	13476	*439-90-8022	Insulator: Removing 1/4" transite panels from floor above offices in warehouse. WET METHOD USED	30	76	0.09	<0.51
3/28/92	13477	*439-31-5889	Insulator: Removing 1/4" transite panels from floor above offices in warehouse. WET METHOD USED	30	76	0.06	<0.51
3/28/92	13478	*595-38-3488	Insulator: Removing 1/4" transite panels from floor above offices in warehouse. WET METHOD USED.	30	75	0.09	<0.51

* The proper protective clothing was worn during the job. North 7700 Respirator with HEPA 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.

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DOW LOUISIANA DIVISION INDUSTRIAL HYGIENE SAMPLE RECORD

SAMPLE N^o 13550

PLANT/DEPT. Block 110 New Tank Farm
MONITORING FOR: Asbestos Fibers

DATE 4-4-92

OTHER CHEMICALS PRESENT: _____

SAMPLE COLLECTION MEDIA:

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

PUMP SERIAL NO. 9796

CALIBRATION DEVICE: ☒ BUBBLEMETER ☐ ROTAMETER
☐ OTHER _____

PUMP FLOW RATE CALIBRATION:

BEGIN: 1. 2547 2541
2. 2539
3. 2575

BEGINNING FLOW RATE AVG. 2551 ☐ CC/MIN ☐ L/MIN

ENDING: 1. 2409
2. 2400 2467
3. 2400

ENDING FLOW RATE AVG. 2415 ☐ CC/MIN ☐ L/MIN

SAMPLE AVERAGE FLOW RATE 2483

TIME STARTED 8:20 AM
TIME STOPPED 8:50 AM
TOT. RUNNING TIME(MIN) 30 min

SAMPLE VOLUME (AVG FLOW X RUN TIME) 74

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

EMPLOYEE NAME Wardell Hcosta
EMPLOYEE I.D.# 433-23-2653
JOB CLASSIFICATION insulator
IH JOB CODE # _____
CONTRACTOR COMPANY Retriev Corp.

RESPIRATOR USED? ☒ YES ☐ NO
RESPIRATOR MODEL / CANISTER TYPE North 7700 w/kepa
☐ MOUTH-BIT ☐ DUST ☒ HALF-FACE
☐ FULL-FACE ☐ AIR-LINE ☐ SCBA

DESCRIPTION OF AREA SAMPLED/JOB PERFORMED DURING MONITORING Inside maintenance shop - removing transit panels from top of offices; wet method

ANALYTICAL REPORT REFERENCE # _____

ANALYTICAL RESULTS: 15.204

West Pine Lab
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0.21
LOD
VP-124

10.52
LOD
FORM FILLED IN BY: Eddie Guillory

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EXPOSURE GUIDELINES

8-HR. TWA LIMIT - 0.20 FIB/CC

30-MINUTE LIMIT = 1.0 FIB/CC

LIMIT OF DETECTION = 7 FIB/MM2

**LOD

***LOQ

LIMIT OF QUANTITATION = 100 FIB/MM2

ASBESTOS MONITORING DATA RESULTS: BLOCK 110/LHC III 1992

DATE	SAMPLE #	PERSONNEL	DESCRIPTION	DUR(MIN)	VOL(L)	** LOD FIB/CC	***LOQ FIB/CC
4/4/92	13550	*433-23-2653	Insulator: Inside maintance shop-removing transite panels from top of offices. WET METHOD.	30	74	0.21	<0.52

* The proper protective clothing was worn during the job. North 7700 Respirator with HEPA 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 th 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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