Industrial Hygiene Department PRELIMINARY REPORT	Plant: 515 Date: 11/14/73	DISTRIBUTION: TO: COPIES: Mr. J. H. Rapp Mr. T. L. Rapp I. H. File D. H. Glenn, M.D.

PROBLEM:

To monitor for maintenance of optimum conditions in Asbestos Gasket Cutting Operations in Salvage Stores, Bldg. 281.

PLAINTIFF'S EXHIBIT
UC-1111

PROCEDURE:

Samples run by UCC Method 38C-29X4-R1a

Membrane Filter Technique Using Phase Contrast Microscopy

RESULTS:

Personnel and general area samples were all less than one fiber per cubic centimeter greater than five microns in length.

Threshold Limit Value for Asbestos 5 Fibers/cc > 5μ

RECOMMENDATIONS:

Clean-up and proper handling of scrap should be maintained to keep personnel exposure below the Threshold Limit Value.

REMARKS:

Refer to Attachments.

UCTC 09156

Surveyed By: O. K. Austin E. Berry

Approved By:

D. E. Deese
Senior Industrial Hygienist
Gulf Coast Area

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department STORES (SALVAGE) Bldg. 281 Date 6-25-73 Time 10 13 AM

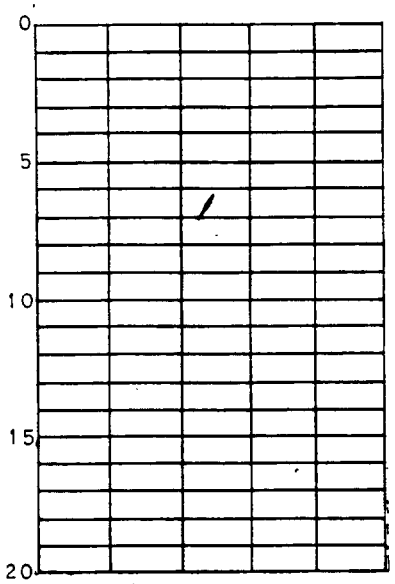
Sampled By: PERRY Analyzed By: PERRY/WESTON Method: 38C-29X4-R1a

General Conditions: R. L EVANS CUTTING RM #680 ASBESTOS GASKETS
NORTH WIND - DOORS OPEN - TWO STAND UP FLOOR FANS OPERATING

SAMPLE #2

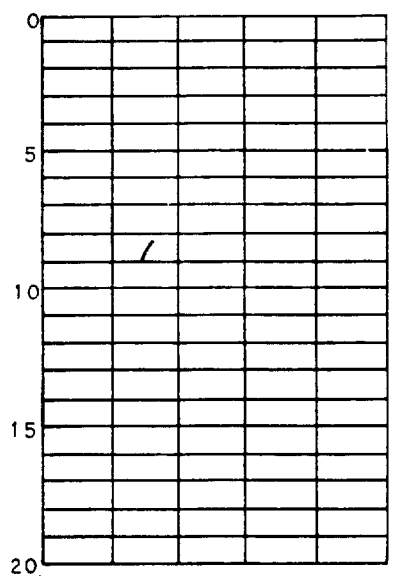
FIBER COUNT (Fibers > 5μ in Length)

Slide 1



Total 1 Avg. 0.01

Slide 2



Total 1 Avg. 0.01

CALCULATIONS

SAMPLE VOLUME: 22 Min. @ 2.0 LPM = 44 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers/cc} > 5\mu$$

1. $\frac{(0.01 - 0)(855)}{(0.01496)(44)(1000)} = 0.013$ Fibers/ cc > 5μ

2. $\frac{(0.01 - 0)(855)}{(0.01496)(44)(1000)} = 0.013$ Fibers / cc > 5μ

avg. 0.013

Special Conditions:

Remarks:

UCTC 09157

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department STORES (SALVAGE) Bldg. 281 Date 6-25-43 Time 10 30/AM

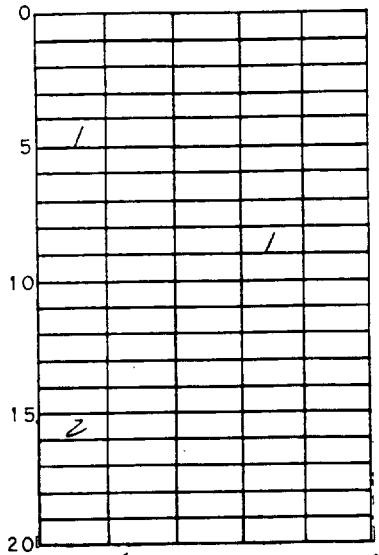
Sampled By: PERRY Analyzed By: PERRY / HOSTER Method: 38C-29X4-R1a

General Conditions: R-L EVANS - SAME CONDITIONS AS #2 SAMPLE

SAMPLE #3

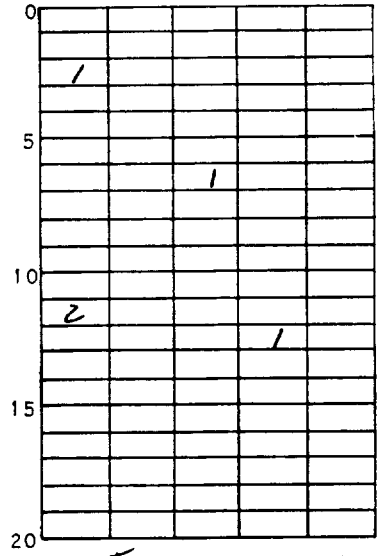
FIBER COUNT (Fibers > 5Å in Length)

Slide 1



Total 4 Avg. 0.04

Slide 2



Total 5 Avg. 0.05

CALCULATIONS

SAMPLE VOLUME: 20 Min. @ 2.0 LPM = 40 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers/cc} > 5Å$$

1. $\frac{(.04 - 0)(855)}{(.01496)(40)(1000)} =$ 0.057 Fibers/ cc > 5Å

2. $\frac{(.05 - 0)(855)}{(.01496)(40)(1000)} =$ Fibers / cc > 5Å

Avg. - 0.06

Special Conditions:

Remarks:

UCTC 09158

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department STORES (SALVAGE) Bldg. 281 Date 6-25-73 Time 10 54 / 11 13

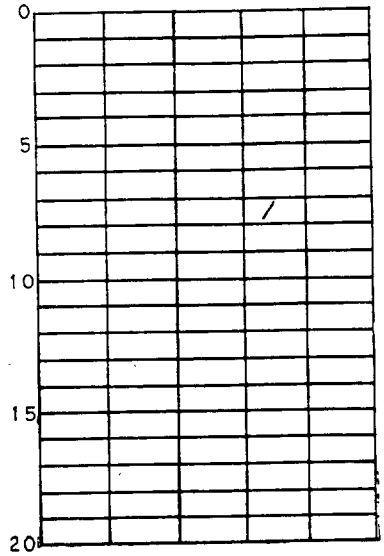
Sampled By: PERRY Analyzed By: PERRY / HESTER Method: 38-C-29X4-R1a

General Conditions: R. L EVANS SAME CONDITIONS AS SAMPLE #2

SAMPLE #4

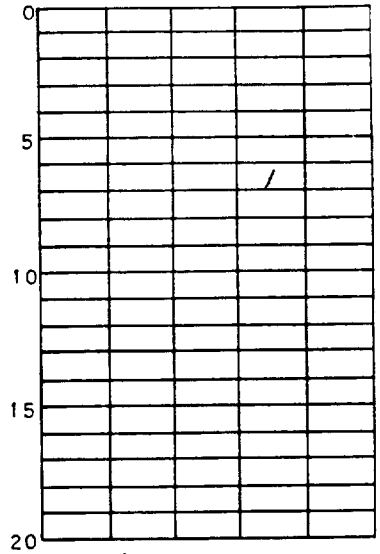
FIBER COUNT (Fibers > 5Å in Length)

Slide 1



Total 1 Avg. 0.01

Slide 2



Total 1 Avg. 0.01

CALCULATIONS

SAMPLE VOLUME: 18 Min. @ 2 LPM = 36 LITERS

$$\frac{(\text{Avg.Fiber Count} - \text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers/cc} > 5Å$$

1. $\frac{(.01 - \quad)(855)}{(0.01496)(36)(1000)} = 0.015$ Fibers/ cc > 5Å

AVG. = 0.015

2. $\frac{(.01 - \quad)(855)}{(0.01496)(36)(1000)} = 0.015$ Fibers / cc > 5Å

Special Conditions:

Remarks:

UCTC 09159

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

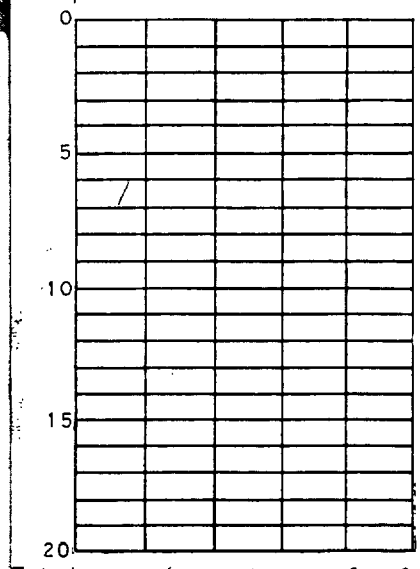
Department STORES Bldg. 281 Date 6-25-43 Time 11⁰¹ – 11¹⁴

Sampled By: PERRY Analyzed By: PERRY / HESTER Method: SBC 29X4 - R/a

General Conditions: AREA SAMPLE - WINDS - NORTH - DOORS OPEN 2 29" STAND UP FANS USED FOR AIR CIRCULATION. WITH DOORS OPEN AND NORTH WINDS A CONSIDERABLE AMOUNT OF DUST COMES INTO THE SHOP FROM THE SANDBLAST AREA SAMPL # 6

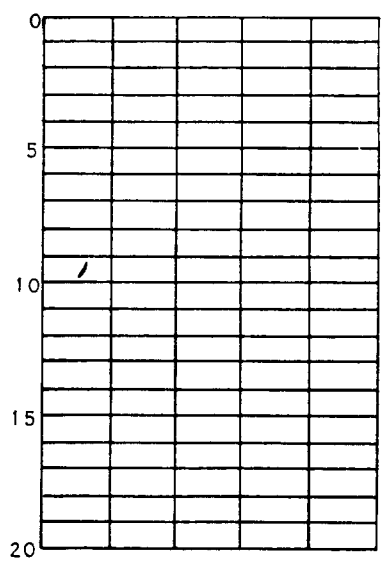
FIBER COUNT (Fibers > 5μ in Length)

Slide 1



Total 1 Avg. 0.01

Slide 2



Total 1 Avg. 0.01

CALCULATIONS

SAMPLE VOLUME: 13 Min. @ 2 LPM = 26 LITERS

$$\frac{(\text{Avg.Fiber Count} - \text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers/cc} > 5\mu$$

1. $\frac{(0.01 - 0)(855)}{(0.01496)(26)(1000)} =$ [illegible] Fibers/ cc > 5μ

avg. — 0.05

2. $\frac{(0.01 - 0)(855)}{(0.01496)(26)(1000)} = 0.05$ Fibers / cc > 5μ

Special Conditions:

Remarks:

UCTC 09160

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department STORES Bldg. 281 Date 6-25-93 Time 10:26 AM

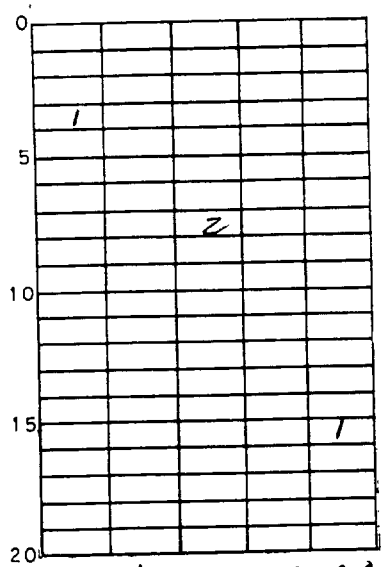
Sampled By: PERRY Analyzed By: PERRY / HESTER Method: 38C-29X4-R1a

General Conditions: HIGH SAMPLE
SAME CONDITIONS AS SAMPLE #6

SAMPLE #7

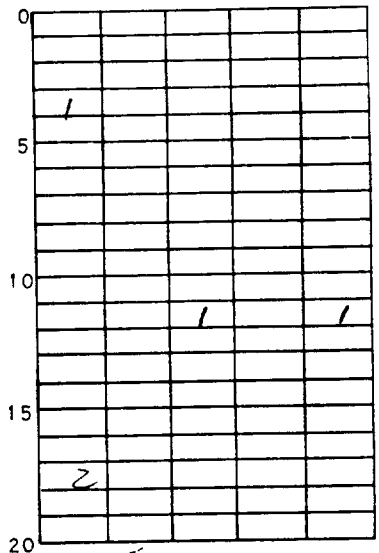
FIBER COUNT (Fibers > 5μ in Length)

Slide 1



Total 4 Avg. 0.04

Slide 2



Total 5 Avg. 0.05

CALCULATIONS

SAMPLE VOLUME: 25 Min. @ 2.0 LPM = 50 LITERS

$$\frac{(\text{Avg.Fiber Count}-\text{Avg.Blank Count})(\text{Total Filter Area})}{(\text{Counting Area})(\text{Vol.Air-Liters})(1000)} = \text{Concentration, Fibers/cc} > 5\mu$$

1. $\frac{(0.04 - 0)(855)}{(0.01996)(50)(1000)} = 0.042$ Fibers/ cc > 5μ

Avg. - 0.05

2. $\frac{(0.05 - 0)(855)}{(0.01996)(50)(1000)} = 0.053$ Fibers / cc > 5μ

Special Conditions:

Remarks:

UCTC 09161