WV-0218434

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

#1

Department SISTERSVILLE Bldg. ____ Date 3-30-72 Time ____

Sampled By: ____ Analyzed By: C E Hyde Method: 38C-29x4-R1

General Conditions: 15 min of changing filter and to bottle in poly A

PLAINTIFF'S EXHIBIT
UC-2658

FIBER COUNT (Fibers > 5μ in Length)

Slide 1				Slide 2			
1	0	11	0	1	0	11	1
2	0	12	0	2	0	12	0
3	1	13	0	3	0	13	2
4	0	14	0	4	0	14	0
5	0	15	2	5	0	15	1
6	1	16	0	6	0	16	0
7	0	17	0	7	0	17	0
8	1	18	1	8	0	18	0
9	0	19	0	9	0	19	0
10	0	20	0	10	0	20	0
Total	6	Avg	.3	Total	4	Avg	.2

CALCULATIONS

SAMPLE VOLUME: 15 Min. @ 2 LPM = ____ LITERS

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

1. $\frac{(0.3 - 0)(855)}{(.00792)(30)(1000)} = 1.0$ Fibers per Milliliter > 5μ

2. $\frac{(0.2 - 0)(855)}{(.00792)(30)(1000)} = 0.7$ Fibers per Milliliter > 5μ

2376

Special Conditions: ____

Remarks: ____

Union Carbide trial exhibit UC-2658: Industrial Hygiene Department Asbestos Dust Study Sheets, Sistersville Plant... Published by AsbestosClaims.Law
ACL Doc 17606 · Page 1 of 9 asbestosclaims.law/library/17606/1

WV-0218 #35

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department SISTERSVILLE Bldg. _____ Date 3 30 72 Time _____

Sampled By: _____ Analyzed By: _____ Method: _____

General Conditions: _____

FIBER COUNT (Fibers > 5μ in Length)

Slide 1			Slide 2		
1		11	1	0	11	0
2		12	2	0	12	0
3		13	3	0	13	0
4		14	4	0	14	0
5		15	5	0	15	0
6		16	6	0	16	0
7		17	7	0	17	0
8		18	8	0	18	0
9		19	9	0	19	0
10		20	10	0	20	0
Total		Avg.	Total	0	Avg.	

CALCULATIONS

SAMPLE VOLUME: _____ Min. @ _____ LPM = _____ LITERS

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

1. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5μ

2. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5μ

Special Conditions: _____

Remarks: _____

UCC 005441

asbestos sampling
Poly A Kettle House - operator: Snider

3-30-72

Sample #1

Sampled 15 min. at 2 lpm.

actually only two minute involved asbestos handling
other 13 min. involved other types of filter aids
containing diatomaceous earth and crystalline silica.
Sampled near the breathing zone of the operator.
Most of fugitive dust could be picked up by exhaust
hose if it were mounted so as to clear opening of
the kettle by ayes 6".

UCC 005442

WV-0218 #56
filter #2

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department Poly A Bldg. _____ Date 4-12-5-31-22 Time _____

Sampled By: Dick Coy Analyzed By: _____ Method: _____

General Conditions: Because operator only handled material containing asbestos for 2-3 minutes during charging of filter-aid to kettle in Poly A, (2) ea. two min. samples and 1 ea. three min. sample was taken with the same filter. Total sampling time was 15 min.

FIBER COUNT (Fibers > 5A in Length)

Slide 1		Slide 2	
1 _____	11 _____	1 _____	11 _____
2 _____	12 _____	2 _____	12 _____
3 _____	13 _____	3 _____	13 _____
4 _____	14 _____	4 _____	14 _____
5 _____	15 _____	5 _____	15 _____
6 _____	16 _____	6 _____	16 _____
7 _____	17 _____	7 _____	17 _____
8 _____	18 _____	8 _____	18 _____
9 _____	19 _____	9 _____	19 _____
10 _____	20 _____	10 _____	20 _____
otal _____	Avg. _____	Total _____	Avg. _____

last date

CALCULATIONS

SAMPLE VOLUME: _____ Min. @ _____ LPM = _____ LITERS

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

1. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5A

2. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5A

Special Conditions: _____

Remarks: _____

UCC 005443

WV-0218 #37
filter #3

INDUSTRIAL HYGIENE DEPARTMENT

ASBESTOS DUST STUDY

Department Insulators - Maint Bldg. _____ Date 4-12-72 Time _____

Sampled By: Jim Heilman Analyzed By: _____ Method: _____

General Conditions: 1 hour sample, inside a building on a tank under normal conditions. Samples were taken by insulator Steve Morris while installing a tank located inside a building Poly II. Nothing unusual about sampling method or work performed

FIBER COUNT (Fibers > 5Å in Length)

Slide 1				Slide 2			
1		11		1		11	
2		12		2		12	
3		13		3		13	
4		14		4		14	
5		15		5		15	
6		16		6		16	
7		17		7		17	
8		18		8		18	
9		19		9		19	
10		20		10		20	
Total		Avg.		Total		Avg.	

last slide

CALCULATIONS

SAMPLE VOLUME: _____ Min. @ _____ LPM = _____ LITERS

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

1. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5Å

2. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5Å

Special Conditions: _____

Remarks: _____

UCC 005444

#3 WV-0218 #38

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department SISTERSVILLE Bldg. _____ Date 4-12-72 Time _____

Sampled By: _____ Analyzed By: C.E.Nagy Method: 38C-2944-R1

General Conditions: 1 hour sample inside building on a tank under normal conditions on main insulator

FIBER COUNT (Fibers > 5μ in Length)

Slide 1				Slide 2			
1	1	11	0	1	3	11	1
2	1	12	3	2	2	12	3
3	2	13	6	3	3	13	2
4	2	14	2	4	4	14	2
5	1	15	2	5	2	15	1
6	0	16	1	6	1	16	0
7	2	17	2	7	4	17	2
8	1	18	4	8	1	18	0
9	3	19	3	9	3	19	1
10	3	20	1	10	2	20	1
Total	40	Avg.	2.0	Total	38	Avg.	1.9

CALCULATIONS

SAMPLE VOLUME: 60 Min. @ 2 LPM = 120 LITERS

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

1. $\frac{(2.0-0)(855)}{(.00792)(120)(1000)} = 1.8$ Fibers per Milliliter > 5μ

2. $\frac{(1.9-0)(855)}{(.00792)(120)(1000)} = 1.7$ Fibers per Milliliter > 5μ

950.4

Special Conditions: LOOSE DUST ON FILTER DISC. BEFORE MOUNTING

Remarks: _____

UCC 005445

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asbestosclaims.law/library/17606/6

WV-0218 #39

T2

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department SISTERSVILLE Bldg. _____ Date 5-31-72 Time _____

Sampled By: _____ Analyzed By: C. Mayle Method: 38C-2-7X4-R1

General Conditions: Poly A. asbestos sample
15 min Total sample time
6 ea two minute samples
1 ea three minute samples 4-12 5-31-72

FIBER COUNT (Fibers > 5A in Length)

Slide 1				Slide 2			
1	0	11	1	1	0	11	0
2	0	12	0	2	0	12	0
3	0	13	0	3	0	13	0
4	0	14	0	4	0	14	0
5	0	15	0	5	0	15	1
6	0	16	0	6	0	16	1
7	0	17	0	7	0	17	0
8	0	18	1	8	0	18	0
9	0	19	0	9	0	19	0
10	0	20	1	10	0	20	0
Total	3	Avg.	.15	Total	2	Avg.	0.10

CALCULATIONS

SAMPLE VOLUME: 15 Min. @ 2 LPM = 30 LITERS

(Avg.Fiber Count-Avg.Blank Count)(Total Filter Area) / (Counting Area)(Vol.Air-Liters)(1000) = Concentration, Fibers per Milliliter > 5A

1. $\frac{(.15 - 0)(855)}{(.00792)(30)(1000)} = 0.5$ Fibers per Milliliter > 5A

2. $\frac{(.10 - \quad)(855)}{(.00792)(30)(1000)} = 0.4$ Fibers per Milliliter > 5A

Special Conditions: _____

Remarks: _____

UCC 005446

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WV-0218#40
Filter #4

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department Insulators - Maint Bldg. _____ Date 6-2-72 Time _____

Sampled By: Jim Neilsman Analyzed By: _____ Method: _____

General Conditions: Sample was worn by insulator for 1 hour sample of stripping Keyle from a tank.

FIBER COUNT (Fibers > 5μ in Length)

Slide 1				Slide 2			
1		11		1		11	
2		12		2		12	
3		13		3		13	
4		14		4		14	
5		15		5		15	
6		16		6		16	
7		17		7		17	
8		18		8		18	
9		19		9		19	
10		20		10		20	
otal		Avg.		Total		Avg.	

Total Count

CALCULATIONS

SAMPLE VOLUME: _____ Min. @ _____ LPM = _____ LITERS

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

1. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5μ

2. $\frac{(\quad - \quad)(\quad)}{(\quad)(\quad)(1000)} =$ Fibers per Milliliter > 5μ

Special Conditions: _____

Remarks: _____

UCC 005447

WV-0218 # 41

INDUSTRIAL HYGIENE DEPARTMENT
ASBESTOS DUST STUDY

Department _____ Bldg. _____ Date 6-2-72 Time _____

Sampled By: _____ Analyzed By: _____ Method: 38C-29X4-K1

General Conditions: 1 Two sample of insulation stripping KAYLO insulation from a tank

FIBER COUNT (Fibers > 5μ in Length)

	Slide 1		Slide 2	
1	0	11	0	0
2	0	12	0	0
3	0	13	0	0
4	0	14	1	0
5	0	15	0	0
6	0	16	0	0
7	0	17	0	0
8	0	18	0	0
9	0	19	0	0
10	0	20	0	0
Total	0	Avg.	1	Avg. 0.05

365

CALCULATIONS

SAMPLE VOLUME: 60 Min. @ 2 LPM = 120 LITERS

(Avg.Fiber Count-Avg.Blank Count)(Total Filter Area) / (Counting Area)(Vol.Air-Liters)(1000) = Concentration, Fibers per Milliliter > 5μ

1. (0 - 0)( ) / (.00792)( )(1000) = 0 Fibers per Milliliter > 5μ

2. (0.05 - 0)(855) / (.00792)(120)(1000) = 0.05 Fibers per Milliliter > 5μ

Special Conditions: _____

Remarks: NOTE: This sample has very little dust on it. Suspect malfunction in the sampling or handling procedure.

UCC 005448