PLAINTIFF'S EXHIBIT

CT-497

CertainTeed Industrial Hygiene

PUMP CALIBRATION

Precalibration

Location: St. Louis

Date: 7/18/79 Time: 8:00 am

Stopwatch used Meylan 100

J. Woodson

(Signatures)

Postcalibration

Location: U.F. Corp

Date: 7/18/79 Time: 10:00 am

Stopwatch used Meylan 100

J. Woodson

(Signatures)

Collection Medium Lot No.	Sampling Device & No.	Rotameter Setting	Time in Minutes For Bubble To Displace ~~1.0~~ 500 Or 0.1 Liter		Flow Rate cc/min or l/min		Sampling Rate
			PRE	POST	PRE	POST	
Millipore	4976		.23	.23	2.18	2.18	2.18 ✓
Cellulose			.23	.23	2.18	2.18	
Ester	4973		.25	.25	2.0	2.0	2.0 ✓
			.25	.25	2.0	2.0	
	4978		.23	.22	2.18	2.28	2.21 ✓
			.23	.23	2.18	2.18	
	5244		.25	.25	2.0	2.0	2.0 ✓
			.25	.25	2.0	2.0	
	4979		Stops	—			—

SL9 Blank
SL7 void

CTD017533

CertainTeed Industrial Hygiene

PUMP CALIBRATION

Precalibration

Location: St. Louis

Date: 7/16 Time: 9:00am

Stopwatch used Meylan 00

(Signatures) Woodson

Postcalibration

Location: Same

Date: 7/17 Time: 800 am

Stopwatch used Same

(Signatures)

Collection Medium Lot No.	Sampling Device & No.	Rotameter Setting	Time in Minutes For Bubble To Displace ~~1.0~~ 500cc Or 0.1 Liter		Flow Rate cc/min or l/min		Sampling Rate
			PRE	POST	PRE	POST	
Millipore Cellulose	4976		.22	.23	2.28	2.18	2.21 ✓
			.23	.23	2.18	2.18	
Lots	4973		.25	.25	2.0	2.0	2.0 ✓
			.25	.25	2.0	2.0	
	4978		.23	.23	2.18	2.18	2.18
			.23	.23	2.18	2.18	
	5244		.25	.25	2.0	2.0	2.0 ✓
			.25	.26	2.0	2.0	
	4979		.26	—	1.92	—	1.92 ✓
			.26	—	1.92	—	

CTD017534

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION St Louis 59

1. CONTAMINANT:
- ☐ Fibrous Glass
- ☑ Asbestos
- ☑ Silica Dust
- ☐ Asphalt Fumes
- ☐ Other: _____

current

2. SAMPLING METHOD:
- ☑ Total Dust, Open Face
- ☐ Total Dust, Closed Face
- ☐ Respirable Dust (Cyclone, 1.7 LPM)
- ☐ Impinger
- ☐ Other: _____

3. SAMPLING MATERIAL:
- ☐ Charcoal Tubes...(Lot # _____)
- ☐ Silica Gel Tube
- ☑ 0.8 μ CEF (Millipore) 8564314
- ☐ PVC Filter (FWS-8)
- ☐ Impinger Solution _____
- ☐ Other: _____

4. TYPE OF SAMPLE:
- ☐ Personnel
- ☑ Area Location

5. PUMP OR EQUIPMENT MANUFACTURER:
- ☐ Sipin
- ☐ MSA
- ☐ Bendix
- ☑ DuPont — P4000 (Model No.)
- Other _____

6. WEATHER CONDITIONS:
- Outside Temp. 85°
- Wind Direction _____
- Wind Velocity _____
- humid

- ☐ Sunny
- ☐ Partly Cloud
- ☐ Cloudy
- ☐ Fog
- ☐ Rain
- ☐ Snow

7. DEPARTMENT: M/g

8. MACHINE LOCATION & NUMBER: Fiber dump

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

Name	Employee Number	Job Title
Fibers whiteroom		

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?):
None - Plant shut down 5/11/79

11.

	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min.)	Sampling Pump Rotameter	Sampling Pump LPM	Volume Liters	Dust Weight or Total Fibers	Airborne Concentration
A.	4976	SL1	9:60	1:40	230		2.21	SL1	.075 f/ml/field	.014 f/cc
B.		SL10	1:40	4:15	155					
C.								SL1	.235 f/ml/field	.030 f/cc
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)
SL10 $\frac{.075(855)}{.013(2.21)(155)1.00} = \frac{64.13}{4453.15} = .014$

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- ☐ OSHA
- ☐ ACGIH
- ☐ NIOSH
- ☐ Other: _____

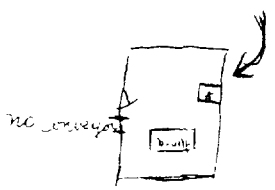
15. VENTILATION:
- ☐ Local Exhaust On? (Check if present and on)
- ☐ General: roof ventilators, doors & windows. Describe:

(Please sketch on back)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- ☐ No
- ☐ Some of the time...when: _____
- ☐ Yes: _____
(Manufacturer, Model, Cartridge)

17. COMMENTS: fiber room

Setting on desk in white room



Maintenance repairing & shipping old Equip
8 hourly
4 salaried

no fiber in area
area cleaned

SL1 $\frac{.235(855)}{.013(230)(2.21)1000} = \frac{200.93}{6607.9} = .030$

18. DATE OF SAMPLING: 7/16/79
Janis Woodson
(Signature and Title)

CTD017535

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: St Louis 259

1. CONTAMINANT:
- [x] Asbestos
- [x] Silica Dust
- [ ] Asphalt Fumes
- [ ] Other: cement

2. SAMPLING METHOD:
- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Impinger
- [ ] Other:

3. SAMPLING MATERIAL:
- [ ] Charcoal Tubes...(Lot #_____)
- [ ] Silica Gel Tube
- [x] 0.8 μ CEF (Millipore) C8564311A
- [ ] PVC Filter (FWS-8
- [ ] Impinger Solution
- [ ] Other:

4. TYPE OF SAMPLE:
- [ ] Personnel
- [x] Area Location

5. PUMP OR EQUIPMENT MANUFACTURER:
- [ ] Sipin
- [ ] MSA
- [ ] Bendix
- [x] DuPont — P4000 (Model No.)
- Other:

6. WEATHER CONDITIONS:
Outside Temp. 85°
Wind Direction
Wind Velocity humid
- [ ] Sunny
- [ ] Partly Cloud
- [ ] Cloudy
- [ ] Fog
- [ ] Rain
- [ ] Snow

7. DEPARTMENT: Mfg

8. MACHINE LOCATION & NUMBER: second floor mixers area

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

	Name	Employee Number	Job Title
(A)	Meyers		
(B)			
(C)			

10. PRODUCTS, PRODUCTION RATE (What was going on this day?):
none - plant shut down 5/11/79

11.

	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min.)	Sampling Pump Rotameter	Sampling Pump LPM	Volume Liters	Dust Weight or Total Fibers	Airborne Concentration
A.	5244	SL2	9:50	1:40	230		2.0		.175 f/ml/field	.025 f/cc
B.		SL12	12/6	4:15	155		5		.035 f/ml/field	.007 f/cc
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (Show calculations on back)
SL12 $\frac{.035(855)}{(.013)(2.0)(155)(1030)} \frac{29.93}{4030} = .007$

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- [ ] OSHA
- [ ] ACGIH
- [ ] NIOSH
- [ ] Other:

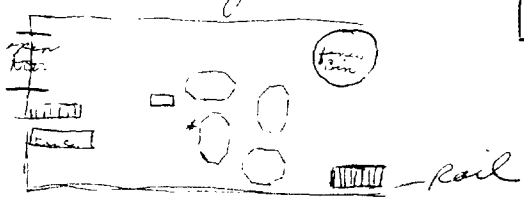
15. VENTILATION:
- [ ] Local Exhaust on? (Check if present and on)
- [ ] General: roof ventilators, doors & windows. Describe:

(Please sketch on back)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- [ ] No
- [ ] Some of the time...when:
- [ ] Yes:

(Manufacturer, Model, Cartridge)

17. COMMENTS:
second floor



Maintenance shipping preparing Equipment

SL2 $\frac{.175(855)}{.013(2.0)(230)(1030)} \frac{149.63}{5980.0} = .025$

18. DATE OF SAMPLING: 7/16/79

Jamie Madison
(Signature and Title)

CTD017536

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: Ft Dodge 259

1. CONTAMINANT:
- [x] Asbestos
- [x] Silica Dust
- [ ] Asphalt Fumes
- [ ] Other: cement

2. SAMPLING METHOD:
- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Impinger
- [ ] Other:

3. SAMPLING MATERIAL:
- [ ] Charcoal Tubes...(Lot #_____)
- [ ] Silica Gel Tube
- [x] 0.8 μ CEF (Millipore) CP8J6 431A
- [ ] PVC Filter (FWS-B
- [ ] Impinger Solution
- [ ] Other:

4. TYPE OF SAMPLE:
- [ ] Personnel
- [x] Area Location

5. PUMP OR EQUIPMENT MANUFACTURER:
- [ ] Sipin
- [ ] MSA
- [ ] Bendix — P4000 (Model No.)
- [x] DuPont — Other

6. WEATHER CONDITIONS:
- Outside Temp. 85°
- Wind Direction
- Wind Velocity
- [ ] Sunny
- [ ] Partly Cloud
- [ ] Cloudy
- [ ] Fog
- [ ] Rain
- [ ] Snow

7. DEPARTMENT: dump pile

8. MACHINE LOCATION & NUMBER: large pile by fiberwarehouse

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

	Name	Employee Number	Job Title
(A)	AW pile		
(B)			
(C)			

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?):
none - plant shut down on 5/11/79

11.

	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min.)	Sampling Pump Rota-meter	Sampling Pump LPM	Volume Liters	Dust Weight or Total Fibers	Airborne Concentration
A.	4978	SL3	10:10	4:15	375		2.18		.44 fib/cc	.035 f/cc
B.										
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)
SL3 $\frac{.44(855)}{.013(2.18)(375)(1000)}$ $\frac{3762}{10627.5} = .035$

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- [ ] OSHA
- [ ] ACGIH
- [ ] NIOSH
- [ ] Other:

15. VENTILATION:
- [ ] Local Exhaust On? (Check if present and on)
- [ ] General: Roof Ventilators, Doors & Windows. Describe:

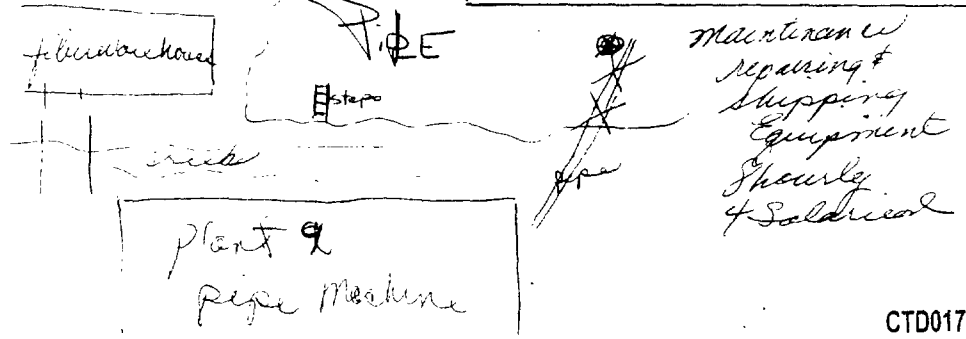
(Please sketch on back)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- [ ] No
- [ ] Some of the time...when:
- [ ] Yes:

(Manufacturer, Model, Cartridge)

17. COMMENTS:
in Asbestos finishings pile

18. DATE OF SAMPLING: 7/16/79
J. Hodson
(Signature and Title)



CTD017537

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: St. Louis 259

1. CONTAMINANT:
- [x] ASBESTOS
- [x] SILICA DUST
- [ ] ASPHALT FUMES
- [ ] OTHER: cement

2. SAMPLING METHOD:
- [x] TOTAL DUST, OPEN FACE
- [ ] TOTAL DUST, CLOSED FACE
- [ ] RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- [ ] IMPINGER
- [ ] OTHER:

3. SAMPLING MATERIAL:
- [ ] CHARCOAL TUBES...(LOT #_____)
- [ ] SILICA GEL TUBE
- [x] 0.8 μ CEF (MILLIPORE) CYJ 64311A
- [ ] PVC FILTER (FWS-B
- [ ] IMPINGER SOLUTION
- [ ] OTHER:

4. TYPE OF SAMPLE:
- [ ] PERSONNEL
- [x] AREA LOCATION

5. PUMP OR EQUIPMENT MANUFACTURER:
- [ ] SIPIN
- [ ] MSA
- [ ] BENDIX
- [x] DUPONT

P4000 (MODEL NO.)
OTHER

6. WEATHER CONDITIONS:
OUTSIDE TEMP. 85°
WIND DIRECTION
WIND VELOCITY
humid
- [ ] SUNNY
- [ ] PARTLY CLOUD
- [ ] CLOUDY
- [ ] FOG
- [ ] RAIN
- [ ] SNOW

7. DEPARTMENT: Shipping

8. ~~MACHINE~~ LOCATION & NUMBER: pipe storage yard

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

	NAME	EMPLOYEE NUMBER	JOB TITLE
(A)	yard		
(B)			
(C)			

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?): none-plant shut down on 5/11/79 Shipping approx 4 trucks a day

11.

	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN.)	SAMPLING PUMP ROTA-METER	SAMPLING PUMP LPM	VOLUME LITERS	DUST WEIGHT OR TOTAL FIBERS	AIRBORNE CONCENTRATION
A.	4973	SL4	9.55	1.25	210		2.0		.19 fib/field	.029 f/cc
B.		SL6	1.25	4.15	170				.08 fib/field	.015 f/cc
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)
SL6 $\frac{.08\ (855)}{(.013)(2.0)(170)(1000)}$ $\frac{68.4}{4420}$ = .015

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- [ ] OSHA
- [ ] ACGIH
- [ ] NIOSH
- [ ] OTHER:

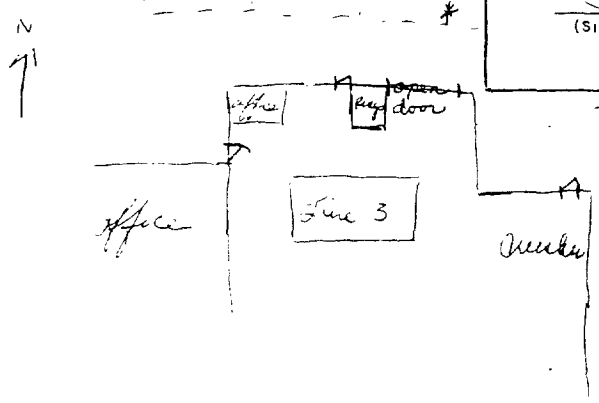
15. VENTILATION:
- [ ] LOCAL EXHAUST ON? (CHECK IF PRESENT AND ON)
- [ ] GENERAL: ROOF VENTILATORS, DOORS & WINDOWS. DESCRIBE:

(PLEASE SKETCH ON BACK)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- [ ] NO
- [ ] SOME OF THE TIME...WHEN:
- [ ] YES:

(MANUFACTURER, MODEL, CARTRIDGE)

17. COMMENTS: yard



18. DATE OF SAMPLING: 7/16/79

Janis Woodson
(SIGNATURE AND TITLE)

maintenance repairing & shipping Equip

SL4 $\frac{.19\ (855)}{(.013)(210)(2.0)(1000)}$

$\frac{162.45}{5460.0}$ = 029

CTD017538

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: H Rivers

1. CONTAMINANT:
- [ ] Fibrous Glass
- [x] Asbestos
- [x] Silica Dust
- [ ] Asphalt Fumes
- [x] Other: cement

2. SAMPLING METHOD:
- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 lpm)
- [ ] Impinger
- [ ] Other:

3. SAMPLING MATERIAL:
- [ ] Charcoal Tubes...(lot #_____)
- [ ] Silica Gel Tube
- [x] 0.8 μ CEF (Millipore) CSJ6431A
- [x] PVC Filter (FWS-B)
- [ ] Impinger Solution
- [ ] Other:

4. TYPE OF SAMPLE:
- [ ] Personnel
- [x] Area Location

5. PUMP OR EQUIPMENT MANUFACTURER:
- [ ] Sipin
- [ ] MSA
- [ ] Bendix
- [x] DuPont

P4000 (Model No.)

Other

6. WEATHER CONDITIONS:
- Outside Temp. 85°
- Wind Direction
- Wind Velocity humid
- [ ] Sunny
- [ ] Partly Cloud
- [ ] Cloudy
- [ ] Fog
- [ ] Rain
- [x] Snow

7. DEPARTMENT: Mfg

8. MACHINE LOCATION & NUMBER: Pipe machine

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

Name	Employee Number	Job Title
wetting Screw	area	

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?):

none — plant shut down on 5/11/79

11.

	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min.)	Sampling Pump Rota-Meter	Sampling Pump LPM	Volume Liters	Dust Weight or Total Fibers	Airborne Concentration
A.	4479	SL5	9 50	1:30	2.20		1.92		.265 fib/field	.039 f/cc
B.										
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)

SL5 $\frac{.265(865)}{.013)(220)(192)1000} = \frac{218.03}{5491.2} = .039$

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- [ ] OSHA
- [ ] ACGIH
- [ ] NIOSH
- [ ] Other:

15. VENTILATION:
- [ ] Local exhaust on? (Check if present and on)
- [ ] General: roof ventilators, doors & windows. Describe:

(Please sketch on back)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- [ ] No
- [ ] Some of the time...when:
- [ ] Yes:

(Manufacturer, Model, Cartridge)

17. COMMENTS:

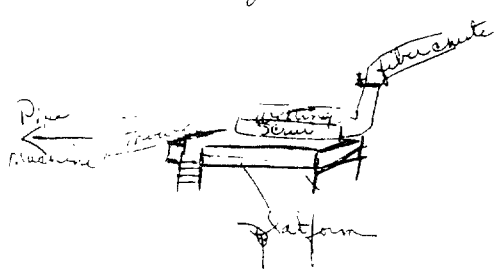
setting in area of wetting screw at fiber chute

18. DATE OF SAMPLING: 7/16/79

Janis Hardson

(Signature and Title)

Maintenance shipping out & repairing Equip



CTD017539

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: _____

1. CONTAMINANT:
- ☐ ASBESTOS
- ☐ SILICA DUST
- ☐ ASPHALT FUMES
- ☐ OTHER: _____

2. SAMPLING METHOD:
- ☐ TOTAL DUST, OPEN FACE
- ☐ TOTAL DUST, CLOSED FACE
- ☐ RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- ☐ IMPINGER
- ☐ OTHER: _____

3. SAMPLING MATERIAL:
- ☐ CHARCOAL TUBES...(LOT # _____)
- ☐ SILICA GEL TUBE
- ☐ 0.8 μ CEF (MILLIPORE)
- ☐ PVC FILTER (FWS-8
- ☐ IMPINGER SOLUTION _____
- ☐ OTHER: _____

4. TYPE OF SAMPLE:
- ☐ PERSONNEL
- ☐ AREA LOCATION

5. PUMP OR EQUIPMENT MANUFACTURER:
- ☐ SIPIN
- ☐ MSA _____
- ☐ BENDIX (MODEL NO.)
- ☐ DUPONT OTHER _____

6. WEATHER CONDITIONS:
- OUTSIDE TEMP. _____
- WIND DIRECTION _____
- WIND VELOCITY _____
- ☐ SUNNY
- ☐ PARTLY CLOUDY
- ☐ CLOUDY
- ☐ FOG
- ☐ RAIN
- ☐ SNOW

7. DEPARTMENT: yard

8. MACHINE LOCATION & NUMBER: at guard gate

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

	NAME	EMPLOYEE NUMBER	JOB TITLE
(A)	yard		
(B)			
(C)			

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?):

11.

	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN.)	SAMPLING PUMP ROTA-METER	SAMPLING PUMP LPM	VOLUME LITERS	DUST WEIGHT OR TOTAL FIBERS	AIRBORNE CONCENTRATION
A.	3244	SL13	8:20	4:20	420		20		.02 fib/field	.002/hr
B.										
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)

SL13 $\frac{.02(855)}{(.013)(2.0)(420)(.000)} = \frac{17.10}{10920} = .002$

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- ☐ OSHA
- ☐ ACGIH
- ☐ NIOSH
- ☐ OTHER: _____

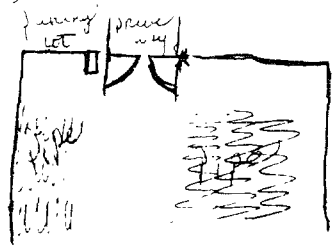
15. VENTILATION:
- ☐ LOCAL EXHAUST ON? (CHECK IF PRESENT AND ON)
- ☐ GENERAL: ROOF VENTILATORS, DOORS & WINDOWS. DESCRIBE:

(PLEASE SKETCH ON BACK)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- ☐ NO
- ☐ SOME OF THE TIME...WHEN: _____
- ☐ YES: _____ (MANUFACTURER, MODEL, CARTRIDGE)

17. COMMENTS:

sampling at gate 5' from guard at exit gate.



18. DATE OF SAMPLING: 7/12/79

J. Woodland Dept
(SIGNATURE AND TITLE)

CTD017540

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: _____

1. CONTAMINANT:
- ☑ ASBESTOS
- ☑ SILICA DUST
- ☐ ASPHALT FUMES
- ☐ OTHER: _____

Irrint

2. SAMPLING METHOD:
- ☑ TOTAL DUST, OPEN FACE
- ☐ TOTAL DUST, CLOSED FACE
- ☐ RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- ☐ IMPINGER
- ☐ OTHER: _____

3. SAMPLING MATERIAL:
- ☐ CHARCOAL TUBES...(LOT # _____)
- ☐ SILICA GEL TUBE
- ☑ 0.8 μ CEF (MILLIPORE)
- ☐ PVC FILTER (FWS-B
- ☐ IMPINGER SOLUTION _____
- ☐ OTHER: _____

4. TYPE OF SAMPLE:
- ☐ PERSONNEL
- ☑ AREA LOCATION

5. PUMP OR EQUIPMENT MANUFACTURER:
- ☐ SIPIN
- ☐ MSA — 74000 (MODEL NO.)
- ☐ BENDIX
- ☑ DUPONT — OTHER _____

6. WEATHER CONDITIONS:
- OUTSIDE TEMP. 70°
- WIND DIRECTION _____
- WIND VELOCITY _____
- ☑ SUNNY
- ☐ PARTLY CLOUDY
- ☐ CLOUDY
- ☐ FOG
- ☐ RAIN
- ☐ SNOW

7. DEPARTMENT: Office

8. MACHINE LOCATION & NUMBER: on files

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

	NAME	EMPLOYEE NUMBER	JOB TITLE
(A)	Office		
(B)			
(C)			

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?):

11.

	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN.)	SAMPLING PUMP ROTAMETER	SAMPLING PUMP LPM	VOLUME LITERS	DUST WEIGHT OR TOTAL FIBERS	AIRBORNE CONCENTRATION
A.	4973	SL7	9:30	4:20	470		20		Void no filter in cassette 7/19/79	
B.										
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)

13. % SILICA:

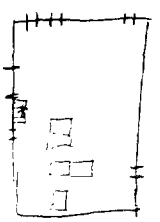
14. ACCEPTABLE LEVEL (TLV):
- ☐ OSHA
- ☐ ACGIH
- ☐ NIOSH
- ☐ OTHER: _____

15. VENTILATION:
- ☐ LOCAL EXHAUST ON? (CHECK IF PRESENT AND ON)
- ☐ GENERAL: ROOF VENTILATORS, DOORS & WINDOWS. DESCRIBE:

(PLEASE SKETCH ON BACK)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- ☐ NO
- ☐ SOME OF THE TIME...WHEN: _____
- ☐ YES: _____ (MANUFACTURER, MODEL, CARTRIDGE)

17. COMMENTS:



Void 7/19/79

18. DATE OF SAMPLING: 7/17/79

J. Woodson SHE
(SIGNATURE AND TITLE)

CTD017541

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: _____

1. CONTAMINANT:
- ☐ ASBESTOS
- ☐ SILICA DUST
- ☐ ASPHALT FUMES
- ☐ OTHER: _____

2. SAMPLING METHOD:
- ☐ TOTAL DUST, OPEN FACE
- ☐ TOTAL DUST, CLOSED FACE
- ☐ RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- ☐ IMPINGER
- ☐ OTHER: _____

3. SAMPLING MATERIAL:
- ☐ CHARCOAL TUBES...(LOT # _____)
- ☐ SILICA GEL TUBE
- ☐ 0.8 μ CEF (MILLIPORE)
- ☐ PVC FILTER (FWS-B
- ☐ IMPINGER SOLUTION _____
- ☐ OTHER: _____

4. TYPE OF SAMPLE:
- ☐ PERSONNEL
- ☐ AREA LOCATION

5. PUMP OR EQUIPMENT MANUFACTURER:
- ☐ SIPIN
- ☐ MSA _____
- ☐ BENDIX (MODEL NO.)
- ☐ DUPONT OTHER _____

6. WEATHER CONDITIONS:
OUTSIDE TEMP. _____
WIND DIRECTION _____
WIND VELOCITY _____
- ☐ SUNNY
- ☐ PARTLY CLOUDY
- ☐ CLOUDY
- ☐ FOG
- ☐ RAIN
- ☐ SNOW

7. DEPARTMENT: Finish

8. MACHINE LOCATION & NUMBER: Line B Lathe

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

	NAME	EMPLOYEE NUMBER	JOB TITLE
(A)	Finish		
(B)			
(C)			

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?):

11.

	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN.)	SAMPLING PUMP ROTA-METER	SAMPLING PUMP LPM	VOLUME LITERS	DUST WEIGHT OR TOTAL FIBERS	AIRBORNE CONCENTRATION
A.	4976	SL8	8:30	4:20	470		2.18		.085 f/cc	.005 f/cc
B.										
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)

SL-8 $\frac{.085(866)}{.013(2.18)(470)(1000)} = \frac{72.67}{13319.8} = .005$

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- ☐ OSHA
- ☐ ACGIH
- ☐ NIOSH
- ☐ OTHER: _____

15. VENTILATION:
- ☐ LOCAL EXHAUST ON? (CHECK IF PRESENT AND ON)
- ☐ GENERAL: ROOF VENTILATORS, DOORS & WINDOWS. DESCRIBE:

(PLEASE SKETCH ON BACK)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- ☐ NO
- ☐ SOME OF THE TIME...WHEN: _____
- ☐ YES: _____ (MANUFACTURER, MODEL, CARTRIDGE)

17. COMMENTS:
Setting on Line 2 Lathe

18. DATE OF SAMPLING: 9/17/79

J. Woodson IHT
(SIGNATURE AND TITLE)

3 2 1

CTD017542

CERTAINTEED INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION: _____

1. CONTAMINANT:
- ☐ ASBESTOS
- ☐ SILICA DUST
- ☐ ASPHALT FUMES
- ☐ OTHER: _____

2. SAMPLING METHOD:
- ☐ TOTAL DUST, OPEN FACE
- ☐ TOTAL DUST, CLOSED FACE
- ☐ RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- ☐ IMPINGER
- ☐ OTHER: _____

3. SAMPLING MATERIAL:
- ☐ CHARCOAL TUBES...(LOT # _____)
- ☐ SILICA GEL TUBE
- ☐ 0.8 μ CEF (MILLIPORE)
- ☐ PVC FILTER (FWS-8
- ☐ IMPINGER SOLUTION _____
- ☐ OTHER: _____

4. TYPE OF SAMPLE:
- ☐ PERSONNEL
- ☐ AREA LOCATION

5. PUMP OR EQUIPMENT MANUFACTURER:
- ☐ SIPIN
- ☐ MSA _____
- ☐ BENDIX (MODEL NO.)
- ☐ DUPONT OTHER _____

6. WEATHER CONDITIONS:
- ☐ SUNNY
- ☐ PARTLY CLOUDY
- ☐ CLOUDY
- ☐ FOG
- ☐ RAIN
- ☐ SNOW

OUTSIDE TEMP. _____
WIND DIRECTION _____
WIND VELOCITY _____

7. DEPARTMENT: Plant 3

8. MACHINE LOCATION & NUMBER: Plant 3 Finish warehouse

9. PRINCIPLE EMPLOYEE AND OTHER EMPLOYEES WORKING IN THE AREA:

	NAME	EMPLOYEE NUMBER	JOB TITLE
(A)	Warehouse		
(B)			
(C)			

10. PRODUCTS, PRODUCTION RATE (WHAT WAS GOING ON THIS DAY?):

11.

	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN.)	SAMPLING PUMP ROTA-METER	SAMPLING PUMP LPM	VOLUME LITERS	DUST WEIGHT OR TOTAL FIBERS	AIRBORNE CONCENTRATION
A.	4978	SL11	9:30	4:20	410		2.2		.035 fib/fld	.002 f/cc
B.										
C.										
D.										

12. TIME WEIGHTED AVERAGE (TWA): (SHOW CALCULATIONS ON BACK)

SL11 $\frac{.035(955)}{.013(2.2)(410)/1000} = \frac{2993}{117.93} = .002$

13. % SILICA:

14. ACCEPTABLE LEVEL (TLV):
- ☐ OSHA
- ☐ ACGIH
- ☐ NIOSH
- ☐ OTHER: _____

15. VENTILATION:
- ☐ LOCAL EXHAUST ON? (CHECK IF PRESENT AND ON)
- ☐ GENERAL: ROOF VENTILATORS, DOORS & WINDOWS. DESCRIBE:

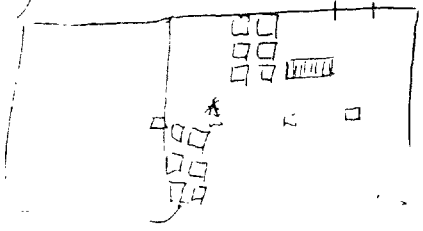
(PLEASE SKETCH ON BACK)

16. DID THE EMPLOYEE WEAR A RESPIRATOR?
- ☐ NO
- ☐ SOME OF THE TIME...WHEN: _____
- ☐ YES: _____ (MANUFACTURER, MODEL, CARTRIDGE)

17. COMMENTS.

in warehouse on pole 6' from floor

P.S storage maybe 20 pallets



18. DATE OF SAMPLING: 2/17/79

J. Hoodson SHT
(SIGNATURE AND TITLE)

CTD017543

CertainTeed Industrial Hygiene

PUMP CALIBRATION

for 10/22

Precalibration

Location: ~~St. Louis~~ A/C

Date: 10/22/79 Time: 9:00a

Stopwatch used Timex 100

Woodson
(Signatures)

Postcalibration

Location:

Date: 10/22/79 Time: 4:00p

Stopwatch used

(Signatures)

Collection Medium Lot No.	Sampling Device & No.	Rotameter Setting	Time in Minutes For Bubble To Displace ~~1.0~~ Or 0.1 Liter		Flow Rate cc/min or l/min		Sampling Rate
			PRE	POST	PRE	POST	
Millipore	5554		.25	.24	2.0	2.08	2.02
AE. filters			.25	.24	2.0	2.08	
Preloaded	6595		.25	.25	2.0	2.0	1.98
Cassettes			.26	.25	1.92	2.0	
Lot #	4974		.25	1.0	2.0	.50	1.23
C9H06064			.26	1.0	1.92	.50	
#M218 - $225	4973		.25	quit	2.0	-	-
Pressure.			.25	—	2.0	-	-
M203 Calibration	4978		.24	.24	2.08	2.08	2.06
			.24	.25	2.08	2.0	
	8DX-44		.26	.32	1.92	1.56	1.63
			.26	.24	1.92	1.14	

CTD017544

CertainTeed Industrial Hygiene

PUMP CALIBRATION

for 10/23

Precalibration

Location: St. Louis A/C

Date: 10/23/79 Time: 9:00a

Stopwatch used Heyden 100

J Woodson

(Signatures)

Postcalibration

Location:

Date: 10/23/79 Time: 4:60p

Stopwatch used

(Signatures)

Collection Medium Lot No.	Sampling Device & No.	Rotameter Setting	Time in Minutes For Bubble To Displace ~~1.0~~ 500 Or 0.1 Liter		Flow Rate cc/min or l/min		Sampling Rate
			PRE	POST	PRE	POST	
Millipore	5554		.24	.25	2.08	2.0	2.02 ✓
CEF filters	~~6595~~		.25	.25	2.0	2.0	
Preloaded	6595		.24	.25	2.08	2.0	2.02 ✓
Cassettes			.25	.25	2.0	2.0	
Lot H	4974		.24	.23	2.08	2.18	2.13 ✓
C9H06064			.24	.23	2.08	2.18	
	4973		.28	.26	1.79	1.92	1.85 ✓
			.28	.26	1.79	1.92	
	4978		.25	.28	2.0	1.79	1.91 ✓
			.24	.28	2.08	1.79	
	BDX-44		.25	.90	2.0	.56	1.28 ✓
			.25	.90	2.0	.56	

CTD017545

CertainTeed Industrial Hygiene

PUMP CALIBRATION

for 10/24

Precalibration

Location: St. Louis A/C

Date: 10/23/79 Time: 4:00p

Stopwatch used Timeflex 100

J. Woodson
(Signatures)

Postcalibration

Location: _____

Date: 10/24/79 Time: 4:15p

Stopwatch used _____

JW
(Signatures)

Collection Medium Lot No.	Sampling Device & No.	Rotameter Setting	Time in Minutes For Bubble To Displace 1.0 Or 0.1 Liter		Flow Rate cc/min or l/min		Sampling Rate
			PRE	POST	PRE	POST	
Millipore	5554		.25	.25	2.0	2.0	2.0 ✓
CEF Filter			.25	.25	2.0	2.0	
Preloaded	6595		.25	.25	2.0	2.0	2.0 ✓
Cassette			.25	.25	2.0	.20	
Lot #	4974		.23	.24	2.18	2.08	2.11
C9H06064			.23	.25	2.18	2.0	
	4973		.26	.25	1.92	2.0	1.96
			.26	.25	1.92	2.0	
	4978		.28	.28	1.72	1.72	1.72
			.28	.28	1.72	1.72	
	BDX-44		.25	.23/100cc	2.0	X	—
			.25	.23/100cc	2.0	X	—

CTD017546

[illegible] LOCATION St Louis

CONTAMINANT
- [ ] FIBERGLASS
- [x] ASBESTOS
- [ ] SILICA DUST
- [ ] ASPHALT FUMES
- [ ] TOTAL DUST
- [ ] OTHER:

SAMPLING METHOD
- [x] TOTAL DUST, OPEN FACE
- [ ] TOTAL DUST, CLOSED FACE
- [ ] RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- [ ] FIBERGLASS #
- [x] .8 μ CEF MILLIP #
- [ ] PVC FWS-B #
- [ ] OTHER

- [ ] ORGANICS [ ] CI [ ] SILICA GEL
- [ ] IMPINGER, SOLUTION...
- [ ] OTHER

DOES EMPLOYEE SMOKE? [ ] NO [ ] YES
CIGARETTES [ ] PIPE [ ] CIGARS [ ]
PER DAY _____

PRODUCTS, PRODUCTION RATE:
- [ ] NORMAL OPERATIONS Plant not in operation
- [ ] DOWNTIME _____

PUMP OR EQUIPMENT MANUFACTURER: [ ] BENDIX [ ] SIPIN [ ] OTHER:
[x] DUPONT [ ] MSA

P4000
MODEL

DEPARTMENT: Finishing

MACHINE LOCATION AND NUMBER:

[ ] PERSONAL SAMPLE

NAME _____

JOB TITLE _____

EMPLOYEE NUMBER _____

[x] AREA SAMPLE

LOCATION #2 Finishing Line Lathe

EMPLOYEES IN AREA JOB TITLE

CONTROL NO.	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN)	LPM	VOLUME LITERS	[ ] DUST WEIGHT [x] FIBERS/FILTER	AIRBORNE CONCENTRATION
001	4978	M213	9:26	400p	394	2.06	811.64	7234.62	.0089 f/cc

DID THE EMPLOYEE WEAR A RESPIRATOR? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (MANUFACTURER, MODEL, CARTRIDGE)

COMMENTS: (SKETCHES, LAYOUTS, & CALCULATIONS ON BACK)

4 from floor - piles of dust on rafters above lathe looks as tho from dust line leak

SIGNATURE: J Woodson
SAMPLE DATE: 10/22/79
10/22/79

GENERAL INFORMATION:

WEATHER CONDITIONS:
OUTSIDE TEMP. 65°
WIND DIRECTION _____
WIND VELOCITY _____
BAROMETRIC PRESSURE _____

- [ ] SUNNY [x] RAIN
- [ ] PARTLY [ ] SNOW
- CLOUDY [ ] STEAMY
- [x] CLOUDY [x] HUMID
- [ ] FOG

CTD017547

A. Davis

[illegible]
- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Organics
- [ ] Impinger, Solution...
- [ ] Other

- [ ] Fiberglass #
- [x] .8 μ CEF Millip #
- [ ] PVC FWS-B #
- [ ] Other

- [ ] CI
- [ ] Silica Gel

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____ Plant not in operation

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other:
[x] Dupont [ ] MSA

P4000
Model

Department: Mfg.

Machine Location and Number:

- [ ] Personal Sample
- [ ] Area Sample

Name _____

Location Willow Mill by Shot Blaster

Job Title _____

Employees in Area _____ Job Title _____

Employee Number _____

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
002	4974	M208	9:30a	4:00p	390	1.23	479.70	1315.38 f/f	.0027 f/cc

Did the Employee wear a respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)
Willow mill from Mfg was taken out & moved to Shot Blaster area for shipment to Ampler [illegible] filter in willow mill
4' from floor facing isle

Signature: J. Woodson
Sample Date: 10/22
10/22/79

General Information:

Weather Conditions:
Outside Temp. 65°
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

- [ ] Sunny
- [ ] Partly Cloudy
- [x] Cloudy
- [ ] Fog
- [x] Rain
- [ ] Snow
- [ ] Steamy
- [x] Humid

CTD017548

St. Louis

[illegible]

- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Organics
- [ ] Impinger, Solution...
- [ ] Other

- [ ] Fiberglass #
- [x] .8 μ CEF Millip #
- [ ] PVC FWS-B #
- [ ] Other

- [ ] CI
- [ ] Silica Gel

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____

plant not in Operation

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other:
[x] Dupont [ ] MSA

P4000
Model

Department:

Machine Location and Number:

- [ ] Personal Sample

Name _____

Job Title _____

Employee Number _____

- [ ] Area Sample

Location Autoclave area

Employees in Area | Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
003	5554	M204	9:35a	3:10p	335	2.02	676.70	1973.08	.0029 f/cc

Did the Employee wear a respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

under roof setting in autoclave tray autoclave area. caterpillar working on hill approx 200' away. Rainy -

Signature: J. Woodson
Sample Date: 10/22/79

General Information:

Weather Conditions:
Outside Temp. 68°
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

- [ ] Sunny
- [ ] Partly Cloudy
- [x] Cloudy
- [ ] Fog
- [x] Rain
- [ ] Snow
- [ ] Steamy
- [x] Humid

CTD017549

H. Lewis

[illegible]
- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

[illegible]
- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Organics
- [ ] Impinger Solution
- [ ] Other

- [ ] Fiberglass
- [x] [illegible] Millipore
- [ ] PVC FWS-B
- [ ] Other

[ ] CI [ ] Silica Gel

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____

plant not in operation

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other:
[x] Dupont [ ] MSA

P4000 Model

Department: Mfg

[ ] Personal Sample

Name _____

Job Title _____

Employee Number _____

Machine Location and Number:

[ ] Area Sample

Location Scales

Employees in Area | Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [ ] Fibers/Filter	Airborne Concentration
004	4973	M209	9:40a	1:15p	215	off	Void Sample		

Did the Employee Wear a Respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (Manufacturer, Model, Cartridge)

Comments: (~~Sketches, Layouts~~, & Calculations on back)

pump off at 1:15p. setting on scales in Mfg area
Void Sample 4 floor

Signature: J. Woodson
Sample Date: 10/22/79
10/22/79

General Information:

Weather Conditions:
Outside Temp. 65°
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

- [ ] Sunny
- [ ] Partly Cloudy
- [x] Cloudy
- [ ] Fog
- [x] Rain
- [ ] Snow
- [ ] Steamy
- [x] Humid

CTD017550

H. Davis

[illegible]

- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

[illegible]

- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Organics
- [ ] Impinger, Solution...
- [ ] Other

- [ ] Fiberglass #
- [x] [illegible] CEF Millipore #
- [ ] PVC FWS-B #
- [ ] Other

[ ] CI [ ] Silica Gel

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____

plant not in operation

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other:
[x] Dupont [ ] MSA

[illegible] Model

Department: Office

[ ] Personal Sample

Name _____

Job Title _____

Employee Number _____

Machine Location and Number:

[x] Area Sample

Location Office

Employees in Area | Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
005	6595	M205	9:45a	4:00p	375	1.98	742.5	2630.77	.0035 f/cc

Did the Employee wear a respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____

(Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

setting in office on file cabinet 4' from floor
4 Employees in area working.

Signature: J. Woodson
Sample Date: 10/22/79
10/22/79

General Information:

Weather Conditions:
Outside Temp. 65°
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

- [ ] Sunny
- [ ] Partly Cloudy
- [x] Cloudy
- [ ] Fog
- [x] Rain
- [ ] Snow
- [ ] Steamy
- [x] Humid

CTD017551

H. Harris

[ ] [illegible]	[x] Total Dust, Open Face	[ ] Fiberglass #
[x] Asbestos	[ ] Total Dust, Closed Face	[x] [illegible] CEF Millip #
[ ] Silica Dust	[ ] Respirable Dust (Cyclone, 1.7 cpm)	[ ] PVC FWS-B #
[ ] Asphalt Fumes		[ ] Other
[ ] Total Dust	[ ] Organics	[ ] CI [ ] Silica Gel
[ ] Other:	[ ] Impinger, Solution...	
	[ ] Other	

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
[ ] Normal Operations
[ ] DownTime _____
plant not in operation

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other:
[x] Dupont [ ] MSA

P4000
Model

Department: Plant 3

Machine Location and Number:

[ ] Personal Sample

Name _____

Job Title _____

Employee Number _____

[ ] Area Sample

Location old fiber storage area

Employees in Area | Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
006	BDX44	M214	9:55a	1:15p	200	1.63	326	657.69	.002 f/cc

Did the Employee wear a respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____

(Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

sitting on autoclave Tray 3' from floor in middle of storage area No Bags of fiber any longer here. last shipment made approx 9/25/79

Signature: J. Woodson
Sample Date: 10/22/79
10/22/79

General Information:

Weather Conditions:
Outside Temp. 65°
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

[ ] Sunny [x] Rain
[ ] Partly [ ] Snow
Cloudy [ ] Steamy
[x] Cloudy [x] Humid
[ ] Fog

CTD017552

St. Louis

CONTAINMENT:
- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Fiberglass A
- [x] 5 Micron Millipore
- [ ] PVC FWS-B
- [ ] Other

- [ ] Organics
- [ ] CI
- [ ] Silica Gel
- [ ] Inorganic Solution
- [ ] Other

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____

Plant closed
Shipping Only

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other.
[x] Dupont [ ] MSA

P4000
Model

Department: Shipping

Machine Location and Number:

[ ] Personal Sample

Name Dick Metz

Job Title Loader

Employee Number _____

[ ] Area Sample

Location _____

Employees in Area _____ Job Title _____

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
007	~~4979~~ 5554	M211	9:15	4:05	410	2.02	828.20	50642.31	.0611 f/cc

Did the Employee wear a respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

Shipped 3 Trucks in Morning Wands pallets of pipe

Signature: J. Hoodson
Sample Date: 10/23/79
10/23/79

General Information:

Weather Conditions: Morn 45°
Outside Temp. after 60°
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

- [ ] Sunny
- [x] Partly Cloudy
- [ ] Cloudy
- [ ] Fog
- [ ] Rain
- [ ] Snow
- [ ] Steamy
- [ ] Humid

CTD017553

[illegible] [illegible] [illegible] St Louis

CONTAMINANT
- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

SAMPLING METHOD
- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Fiberglass #
- [x] .8 μ CEF Millip #
- [ ] PVC FWS-B
- [ ] Other
- [ ] Organics [ ] CI [ ] Silica Gel
- [ ] Impinger, Solution...
- [ ] Other

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____

plant closed
shipping only

Pump or Equipment Manufacturer: [x] Bendix [ ] Sipin [ ] Other:
[ ] Dupont [ ] MSA

BDX44
Model

Department:

[ ] Personal Sample

Name Vernon Denen

Job Title Shipping Inspector

Employee Number _____

Machine Location and Number:

[ ] Area Sample

Location _____

Employees in Area _____ Job Title _____

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
008	BDX44	M210	9:15	4:05	410	1.28	524.8	31569.23	.0601 f/cc

Did the Employee wear a respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

Checks each sply for fishmouth

Signature: J. Woodson
Sample Date: 10/23/79
10/23/79

General Information:

3 Trucks shipped that morning
afternoon worked in yard

Weather Conditions:
- Outside Temp. _____
- Wind Direction _____
- Wind Velocity _____
- Barometric Pressure _____

[ ] Sunny [ ] Rain
[ ] Partly Cloudy [ ] Snow
[ ] Cloudy [ ] Steamy
[ ] Fog [ ] Humid

CTD017554

St. Louis

CONTAMINANT
- ☐ Fiberglass
- ☑ Asbestos
- ☐ Silica Dust
- ☐ Asphalt Fumes
- ☐ Total Dust
- ☐ Other:

SAMPLING MED.
- ☑ Total Dust, Open Face
- ☐ Total Dust, Closed Face
- ☐ Respirable Dust (Cyclone, 1.7 LPM)
- ☐ Organics ☐ CT ☐ Silica Gel
- ☐ Impinger Solution
- ☐ Other

- ☐ Fiberglass #
- ☑ .8 μ CEF Millip #
- ☐ PVC FWS-B #
- ☐ Other

Does Employee Smoke? ☐ NO ☐ YES
Cigarettes ☐ Pipe ☐ Cigars ☐
Per Day

Products, Production Rate:
- ☐ Normal Operations
- ☐ DownTime

plant closed shipping only

Pump or Equipment Manufacturer:
- ☐ Bendix ☐ Sipin ☐ Other:
- ☑ DuPont ☐ MSA

P400 Model

Department:

Machine Location and Number:

☐ Personal Sample

Name Vernon Wolff

Job Title Loader

Employee Number

☐ Area Sample

Location

Employees in Area | Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	☐ Dust Weight ☑ Fibers/Filter	Airborne Concentration
009	6695	M219	9:23	1:00	217.0	2.02	438.34	66229.62	.1510 f/cc ✓
010	11	M223	1:00	400	180.0	2.02	363.6	<7234.62	<.0198 f/cc ✓

Did the Employee wear a respirator? ☐ NO ☐ YES ☐ SOME OF THE TIME

...WHEN:

(Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

Bands Pipe
Trucks in Morning
Cleaning up in plant 2 in afternoon

400 hours of pump

Signature: J. Woodrow
Sample Date: 10/23/78

General Information:

Weather Conditions:
Outside Temp.
Wind Direction
Wind Velocity
Barometric Pressure

- ☐ Sunny ☐ Rain
- ☐ Partly Cloudy ☐ Snow
- ☐ Cloudy ☐ Steamy
- ☐ Fog ☐ Humid

CTD017555

St. Louis

CONTAMINANT
- ☐ Fiberglass
- ☑ Asbestos
- ☐ Silica Dust
- ☐ Asphalt Fumes
- ☐ Total Dust
- ☐ Other:

SAMPLING MEDIA
- ☑ Total Dust, Open Face
- ☐ Total Dust, Closed Face
- ☐ Respirable Dust (Cyclone, 1.7 LPM)
- ☐ Organics
- ☐ Impinger Solution
- ☐ Other

- ☐ Fiberglass #
- ☑ .8 μ CEF Millip #
- ☐ PVC FWS-B
- ☐ Other
- ☐ CT ☐ Silica Gel

Does Employee Smoke? ☐ NO ☐ YES
Cigarettes ☐ Pipe ☐ Cigars ☐
Per Day

Products, Production Rate:
- ☐ Normal Operations
- ☐ DownTime

plant closed shipping only

Pump or Equipment Manufacturer:
- ☐ Bendix ☐ Sipin ☐ Other:
- ☑ DuPont ☐ MSA

P4000 Model

Department:

Machine Location and Number:

☑ Personal Sample

Name: William Harper

Job Title: Shipping Truck Driver (Forklift)

Employee Number:

☐ Area Sample

Location:

Employees in Area · Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	☐ Dust Weight ☑ Fibers/Filter	Airborne Concentration
011	4978	M245	9:27	4:05	398	1.91	760.18	9865.38	.0129 f/cc

Did the Employee wear a respirator? ☑ NO ☐ YES ☐ SOME OF THE TIME

...WHEN:

(Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

Fork Truck Driver loading trucks

Signature: J. Woodson

Sample Date: ~~10/23/79~~ 10/23/79

General Information:

Weather Conditions:
- Outside Temp.
- Wind Direction
- Wind Velocity
- Barometric Pressure

☐ Sunny ☐ Rain
☐ Partly Cloudy ☐ Snow ☐ Steamy
☐ Cloudy ☐ Humid
☐ Fog

CTD017556

CONTAMINANT
- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

SAMPLING MEDIA
- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Fiberglass #
- [x] .8 μ CEF Millip #
- [ ] PVC FWS-B
- [ ] Other
- [ ] Organics
- [ ] CI
- [ ] Silica Gel
- [ ] Impinger, Solution...
- [ ] Other

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____

plant closed
Shipping Only

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other: _____
[x] Dupont [ ] MSA

PX000
Model

Department:

Machine Location and Number:

[ ] Personal Sample
Name Elmer Birkemeier
Job Title Loading cplgs
Employee Number _____

[ ] Area Sample
Location _____
Employees in Area _____ Job Title _____

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
012	4973	M216	9:30	12:55	205	1.85	379.25	19073.08	.0502 f/cc
013		M224	12:55	4:00	185	1.85	342.25	46038.46	.1345 f/cc

Did the Employee wear a respirator? [x] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)
Employee taking rings out of cplings & moving them to plant 3 for shipment by van to hillsboro

Signature: J Woodrow
Sample Date: 10/23/79
10/23/79

General Information:

Weather Conditions:
Outside Temp. _____
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

- [ ] Sunny
- [ ] Partly Cloudy
- [ ] Cloudy
- [ ] Fog
- [ ] Rain
- [ ] Snow
- [ ] Steamy
- [ ] Humid

CTD017557

CONTAMINANT
- [ ] Fiberglass
- [x] Asbestos
- [ ] Silica Dust
- [ ] Asphalt Fumes
- [ ] Total Dust
- [ ] Other:

SAMPLING METH
- [x] Total Dust, Open Face
- [ ] Total Dust, Closed Face
- [ ] Respirable Dust (Cyclone, 1.7 LPM)
- [ ] Fiberglass #
- [x] .8 μ CEF Millip #
- [ ] PVC FWS-B #
- [ ] Other
- [ ] Organics
- [ ] CF
- [ ] Silica Gel
- [ ] Impinger, Solution...
- [ ] Other

Does Employee Smoke? [ ] NO [ ] YES
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
- [ ] Normal Operations
- [ ] DownTime _____

plant closed
shipping only

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other:
[x] Dupont [ ] MSA

P4000
Model

Department:

Machine Location and Number:

- [ ] Personal Sample

Name Lair Moran

Job Title Mechanic

Employee Number _____

- [ ] Area Sample

Location _____

Employees in Area _____ Job Title _____

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [ ] Fibers/Filter	Airborne Concentration
014	4974	M220	9:30	4:05	395	2.13	841.35	void Sample JW	

Did the Employee wear a respirator? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____

(Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

worked on Trucks in Shop - Show day

void sample Heavy particulate uncountable JW

Signature: J Woodson
Sample Date: 10/23/79 10/23/79

General Information:

Weather Conditions:
Outside Temp. _____
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

- [ ] Sunny
- [ ] Partly Cloudy
- [ ] Cloudy
- [ ] Fog
- [ ] Rain
- [ ] Snow
- [ ] Steamy
- [ ] Humid

CTD017558

St Louis

[ ] [illegible]
[ ] [illegible]
[x] ASBESTOS
[ ] SILICA DUST
[ ] ASPHALT FUMES
[ ] TOTAL DUST
[ ] OTHER:

[ ] TOTAL DUST, OPEN FACE
[ ] TOTAL DUST, CLOSED FACE
[ ] RESPIRABLE DUST (CYCLONE, 1.7 LPM)

[ ] [illegible]
[x] [illegible]
[ ] PVC TWS-8
[ ] OTHER

ORGANICS [ ] CT [ ] SILICA GEL

IMPINGER SOLUTIONS:
[ ] OTHER

DOES EMPLOYEE SMOKE? [ ] NO [ ] YES
CIGARETTES [ ] PIPE [ ] CIGARS [ ]
PER DAY _____

PRODUCTS, PRODUCTION RATE:
[ ] NORMAL OPERATIONS
[ ] DOWNTIME _____

PUMP OR EQUIPMENT MANUFACTURER: [ ] BENDIX [ ] SIPIN [ ] OTHER
[x] DUPONT [ ] MSA

P4000
MODEL

DEPARTMENT:

MACHINE LOCATION AND NUMBER:

[ ] PERSONAL SAMPLE

NAME _____

JOB TITLE _____

EMPLOYEE NUMBER _____

[ ] AREA SAMPLE

LOCATION Mixers (Second floor)

EMPLOYEES IN AREA JOB TITLE

CONTROL NO.	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN)	LPM	VOLUME LITERS	[ ] DUST WEIGHT [x] FIBERS/FILTER	AIRBORNE CONCENTRATION
016	4478217		9:32	4:00	388	2.1	818.68	11180.77	.0136 f/cc

DID THE EMPLOYEE WEAR A RESPIRATOR? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____

(MANUFACTURER, MODEL, CARTRIDGE)

COMMENTS: (SKETCHES, LAYOUTS, & CALCULATIONS ON BACK)

setting on mixer platform

SIGNATURE: [signature]
SAMPLE DATE: 10/24/79

GENERAL INFORMATION:

WEATHER CONDITIONS

OUTSIDE TEMP. _____
WIND DIRECTION _____
WIND VELOCITY _____
BAROMETRIC PRESSURE _____

[ ] SUNNY [ ] RAIN
[ ] PARTLY CLOUDY [ ] SNOW
[ ] STEAMY
[ ] CLOUDY [ ] HUMID
[ ] FOG

CTD017559

AIR SAMPLING DATA SHEET

LOCATION St. Louis

CONTAMINANT
- ☐ Fiberglass
- ☑ Asbestos
- ☐ Silica Dust
- ☐ Asphalt Fumes
- ☐ Total Dust
- ☐ Other:

SAMPLING MEDIA
- ☐ Total Dust, Open Face
- ☐ Total Dust, Closed Face
- ☐ Respirable Dust (Cyclone, 1.7 LPM)
- ☐ Organics
- ☐ Impinger, Solution
- ☐ Other
- ☐ Fiberglass #
- ☑ .8 μ CEF Millip #
- ☐ PVC FWS-B
- ☐ Other
- ☐ CT ☐ Silica Gel

Does Employee Smoke? ☐ NO ☐ YES
Cigarettes ☐ Pipe ☐ Cigars ☐
Per Day _____

Products, Production Rate:
- ☐ Normal Operations
- ☐ DownTime _____

Pump or Equipment Manufacturer:
- ☐ Bendix ☐ Sipin ☐ Other:
- ☑ Dupont ☐ MSA

P4000 Model

Department: _____

Machine Location and Number: _____

☐ Personal Sample

Name _____

Job Title _____

Employee Number _____

☑ Area Sample

Location Crusher

Employees in Area — Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	☐ Dust Weight ☑ Fibers/Filter	Airborne Concentration
016	4973	M221	8:55	4:35	460	1.94	901.60	< 7234.62	< .008 f/cc

Did the Employee wear a respirator? ☐ NO ☐ YES ☐ SOME OF THE TIME

...WHEN: _____ (Manufacturer, Model, Cartridge) _____

COMMENTS: (Sketches, Layouts, & Calculations on back)

setting on crusher & from floor

Signature J. Woodson

Sample Date: 10/24/79

General Information:

Weather Conditions:
- Outside Temp. 40°
- Wind Direction _____
- Wind Velocity _____
- Barometric Pressure _____

- ☑ Sunny ☐ Rain
- ☐ Partly Cloudy ☐ Snow ☐ Steamy
- ☐ Cloudy ☐ Humid
- ☐ Fog

CTD017560

PERMANENTLY INDUSTRIAL HYGIENE — AIR SAMPLING DATA SHEET — LOCATION St Louis

CONTAMINANT
- [ ] FIBERGLASS
- [x] ASBESTOS
- [ ] SILICA DUST
- [ ] ASPHALT FUMES
- [ ] TOTAL DUST
- [ ] OTHER:

SAMPLING MEDIA
- [x] TOTAL DUST, OPEN FACE
- [ ] TOTAL DUST, CLOSED FACE
- [ ] RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- [ ] FIBERGLASS #
- [x] .8 μ CEL MILLIP #
- [ ] PVC FWS-B #
- [ ] OTHER
- [ ] ORGANICS — [ ] CI [ ] SILICA GEL
- [ ] IMPINGER, SOLUTION...
- [ ] OTHER

DOES EMPLOYEE SMOKE? [ ] NO [ ] YES
CIGARETTES [ ] PIPE [ ] CIGARS [ ]
PER DAY _____

PRODUCTS, PRODUCTION RATE:
- [ ] NORMAL OPERATIONS
- [ ] DOWNTIME _____

Plant not in operation

PUMP OR EQUIPMENT MANUFACTURER: [ ] BENDIX [ ] SIPIN [ ] OTHER: [ ] DUPONT [ ] MSA

MODEL

DEPARTMENT:

MACHINE LOCATION AND NUMBER:

- [ ] PERSONAL SAMPLE
- [x] AREA SAMPLE

NAME _____

LOCATION Wetting Screw

JOB TITLE _____

EMPLOYEES IN AREA — JOB TITLE

EMPLOYEE NUMBER _____

CONTROL NO.	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN)	LPM	VOLUME LITERS	[ ] DUST WEIGHT [x] FIBERS/FILTER	AIRBORNE CONCENTRATION
017	5554	M226	9:05a	4:00	415	2.0	830	<7234.62	<.0087 f/cc

DID THE EMPLOYEE WEAR A RESPIRATOR? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____ (MANUFACTURER, MODEL, CARTRIDGE)

COMMENTS: (SKETCHES, LAYOUTS, & CALCULATIONS ON BACK)

setting at wetting screw.

SIGNATURE: J. Woodson
SAMPLE DATE: 10/24/79

GENERAL INFORMATION:

WEATHER CONDITIONS:
- OUTSIDE TEMP. _____
- WIND DIRECTION _____
- WIND VELOCITY _____
- BAROMETRIC PRESSURE _____

- [ ] SUNNY [ ] RAIN
- [ ] PARTLY [ ] SNOW
- CLOUDY [ ] STEAMY
- [ ] CLOUDY [ ] HUMID
- [ ] FOG

CTD017561

St Louis

[illegible]
[ ] [illegible]
[✓] Asbestos
[ ] Silica Dust
[ ] Asphalt Fumes
[ ] Total Dust
[ ] Other:

[✓] Total Dust, [illegible] Face
[ ] Total Dust, Closed Face
[ ] Respirable Dust (Cyclone, 1.7 LPM)
[ ] [illegible]
[ ] [illegible]
[ ] PVC [illegible]
[ ] Other

[ ] [illegible] [ ] CT [ ] Silica Gel
[ ] Impinger, Solution...
[ ] Other

Does Employee Smoke? [ ] No [ ] Yes
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
[ ] Normal Operations
[ ] DownTime _____

Pump or Equipment Manufacturer [ ] ~~Bendix~~ [ ] Sipin [ ] Other:
[✓] Dupont [ ] MSA

P4000
Model

Department: Filter Warehouse

[ ] Personal Sample

Name _____

Job Title _____

Employee Number _____

Machine Location and Number:

[ ] Area Sample

Location Filter Warehouse

Employees in Area | Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [✓] Fibers/Filter	Airborne Concentration
018	6595	M206	9:07	4:00	413	2.0	826.0	< 7234.62	<.0087 f/cc

Did the Employee Wear a Respirator? [ ] No [ ] Yes [ ] Some of the Time

...When: _____

(Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

on pole 5' from ground 150' from pile
Caterpillar working

Center of warehouse floor area

Signature: J. Noodson
Sample Date: 10/24/79

General Information:

Weather Conditions:
Outside Temp. _____
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

[ ] Sunny [ ] Rain
[ ] Partly Cloudy [ ] Snow
[ ] Cloudy [ ] Steamy
[ ] Fog [ ] Humid

CTD017562

St Louis

[illegible]
[illegible]
[illegible]
[ ] Silica Dust
[ ] Asphalt Fumes
[ ] Total Dust
[ ] Other:

[ ] [illegible]
[ ] [illegible], Closed Face
[ ] Respirable Dust (Cyclone, 1.7 LPM)
[ ] Organics
[ ] Impinger, Solution
[ ] Other

[ ] [illegible]
[ ] [illegible]
[ ] PVC [illegible]
[ ] Other
[ ] CT [ ] Silica Gel

Does Employee Smoke? [ ] No [ ] Yes
Cigarettes [ ] Pipe [ ] Cigars [ ]
Per Day _____

Products, Production Rate:
[ ] Normal Operations
[ ] Downtime _____

Pump or Equipment Manufacturer: [ ] Bendix [ ] Sipin [ ] Other:
[x] Dupont [ ] MSA

P4000
Model

Department

Machine Location and Number:

[ ] Personal Sample

Name _____

Job Title _____

Employee Number _____

[ ] Area Sample

Location fiber warehouse

Employees in Area — Job Title

Control No.	Pump Serial	Sample No.	Start Time	Stop Time	Total (Min)	LPM	Volume Liters	[ ] Dust Weight [x] Fibers/Filter	Airborne Concentration
019	4978	M227	9:30	4:00	390	1.72	670.80	< 7234.62	< .0107 f/cc

Did the Employee Wear a Respirator? [ ] No [ ] Yes [ ] Some of the Time

...When _____

(Manufacturer, Model, Cartridge)

Comments: (Sketches, Layouts, & Calculations on back)

fiber warehouse at outside wall for 3' from floor at footing pile caterpillar grading

Signature: J Hoodson
Sample Date: 10/24/79

General Information:

Weather Conditions:
Outside Temp. _____
Wind Direction _____
Wind Velocity _____
Barometric Pressure _____

[ ] Sunny [ ] Rain
[ ] Partly Cloudy [ ] Snow
[ ] Cloudy [ ] Steamy
[ ] Fog [ ] Humid

CTD017563

St Louis

CONTAMINANT
- [ ] FIBERGLASS
- [x] ASBESTOS
- [ ] SILICA DUST
- [ ] ASPHALT FUMES
- [ ] TOTAL DUST
- [ ] OTHER:

- [x] TOTAL DUST, OPEN FACE
- [ ] TOTAL DUST, CLOSED FACE
- [ ] RESPIRABLE DUST (CYCLONE, 1.7 LPM)
- [ ] ORGANICS
- [ ] IMPINGER, SOLUTION
- [ ] OTHER

- [ ] [illegible]
- [x] [illegible]
- [ ] PVC [illegible]
- [ ] OTHER
- [ ] CT
- [ ] SILICA GEL

DOES EMPLOYEE SMOKE? [ ] NO [ ] YES
CIGARETTES [ ] PIPE [ ] CIGARS [ ]
PER DAY _____

PRODUCTS, PRODUCTION RATE:
- [ ] NORMAL OPERATIONS
- [ ] DOWNTIME _____

PUMP OR EQUIPMENT MANUFACTURER: [x] BENDIX [ ] SIPIN [ ] OTHER: [x] DUPONT [ ] MSA

BDX44
MODEL

DEPARTMENT:

[ ] PERSONAL SAMPLE

NAME _____

JOB TITLE _____

EMPLOYEE NUMBER _____

MACHINE LOCATION AND NUMBER:

[ ] AREA SAMPLE

LOCATION Cplg Saw Plant 3

EMPLOYEES IN AREA | JOB TITLE

CONTROL NO.	PUMP SERIAL	SAMPLE NO.	START TIME	STOP TIME	TOTAL (MIN)	LPM	VOLUME LITERS	[ ] DUST WEIGHT [ ] FIBERS/FILTER	AIRBORNE CONCENTRATION
020	BDX44	M222	9:20	4:00	Void Sample				JW

DID THE EMPLOYEE WEAR A RESPIRATOR? [ ] NO [ ] YES [ ] SOME OF THE TIME

...WHEN: _____

(MANUFACTURER, MODEL, CARTRIDGE)

COMMENTS: (SKETCHES, LAYOUTS, & CALCULATIONS ON BACK)

setting on Brace behind saw
3' from floor

Pump running too slow at calibration
<.23/100cc
void sample

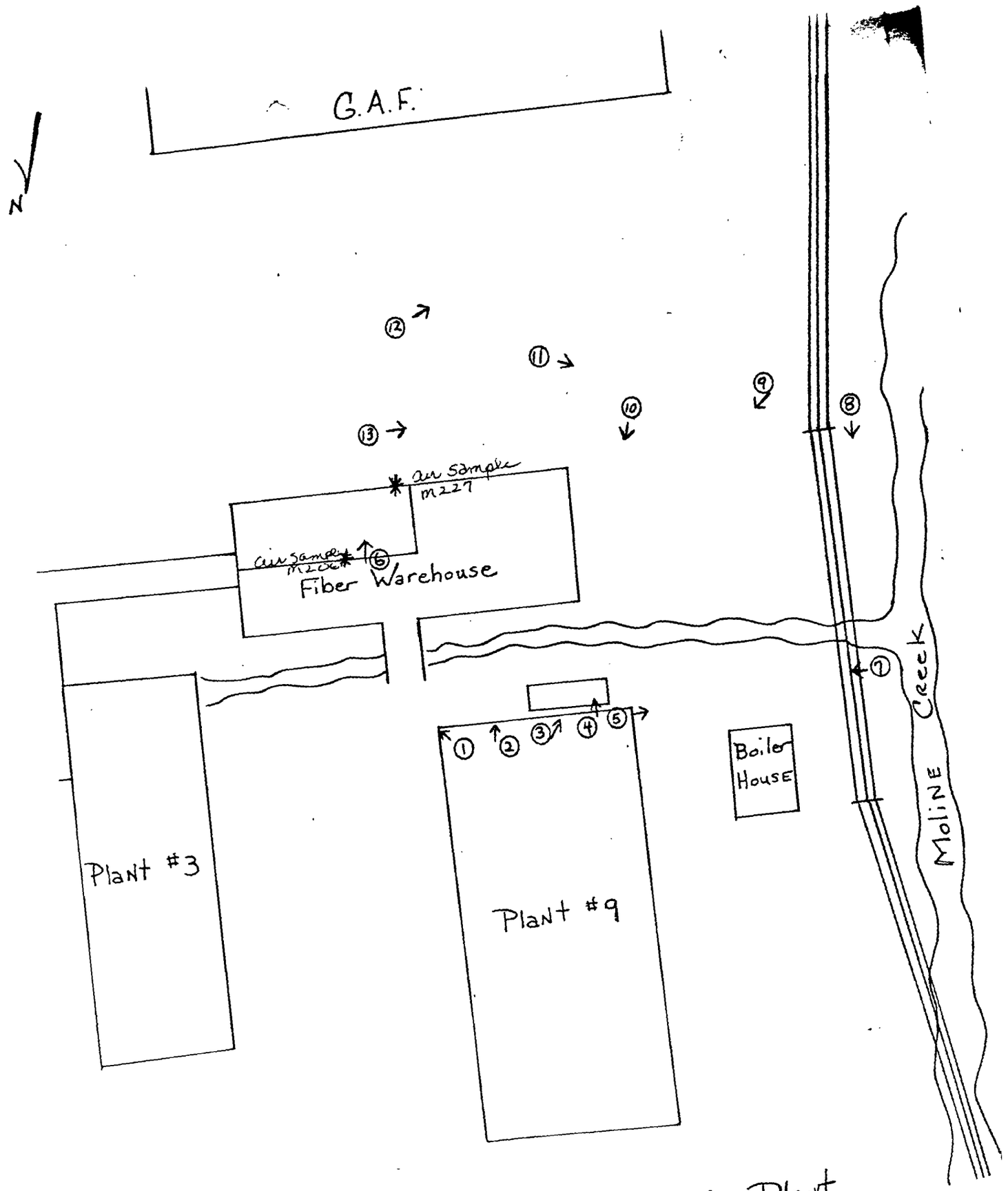
SIGNATURE: J. Woodson
SAMPLE DATE: 10/24/79
10/24/79

GENERAL INFORMATION:

WEATHER CONDITIONS:
- OUTSIDE TEMP. _____
- WIND DIRECTION _____
- WIND VELOCITY _____
- BAROMETRIC PRESSURE _____

- [ ] SUNNY
- [ ] PARTLY CLOUDY
- [ ] CLOUDY
- [ ] FOG
- [ ] RAIN
- [ ] SNOW
- [ ] STEAMY
- [ ] HUMID

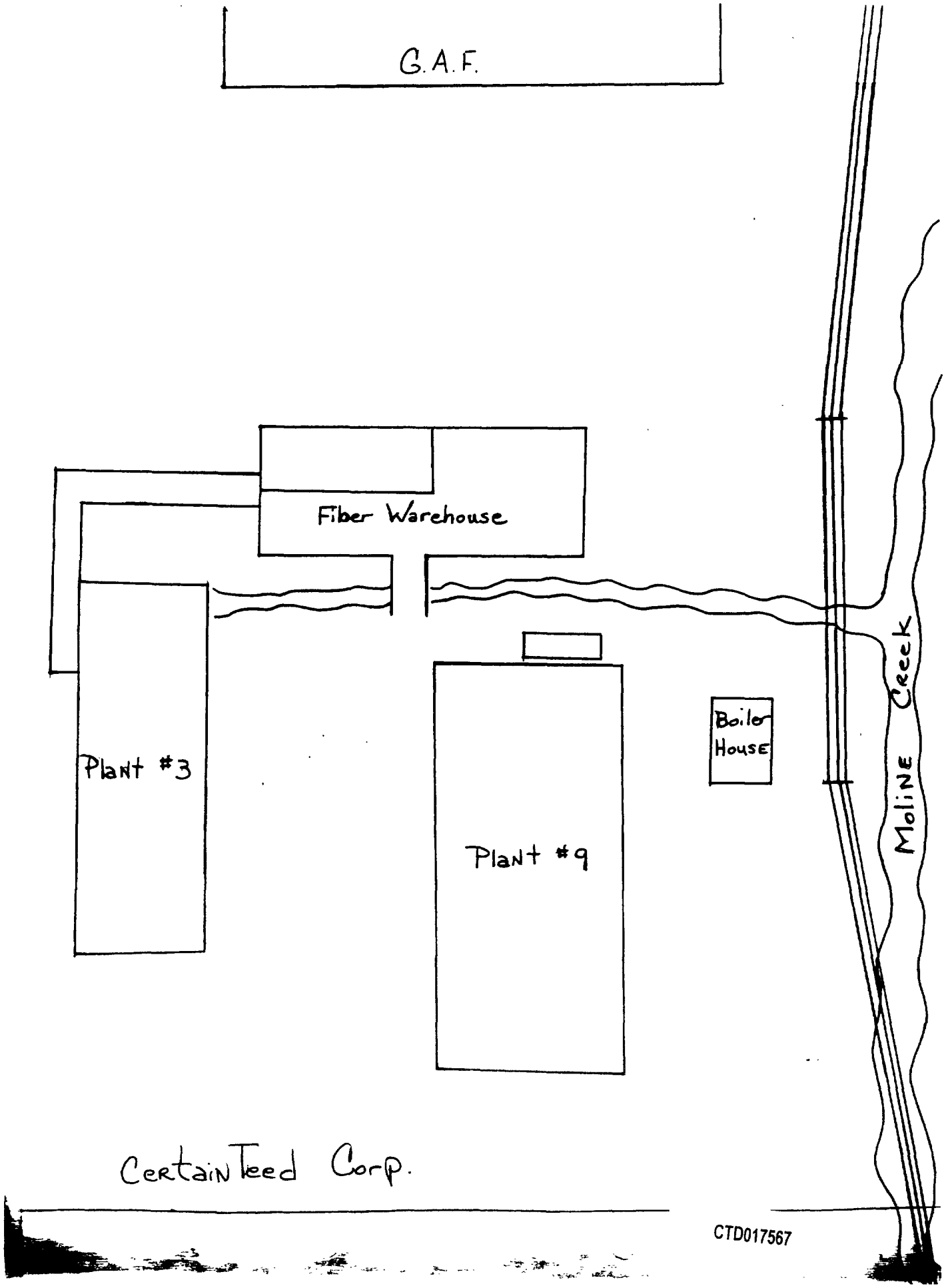
CTD017564



CertainTeed Corp. - St. Louis A/c Plant

CTD017565

Layout of Photographs taken 10/24/79


G.A.F.
Fiber Warehouse
Plant #3
Plant #9
Boiler House
Moline Creek
CertainTeed Corp.

CTD017567