

CertainTeed

April 6, 1981

To

Hank Benhardt

Location and mail code

Ambler 258

Subject

AMBLER INDUSTRIAL HYGIENE SURVEY
March 23-24, 1981

From

Janis Woodson *tmf*
Janis Woodson

Location and mail code

1125/4

cc: J. McGinley - 2125/2B
D. Hall - 2125/2B
~~REDACTED~~

CR

Attached find the log of sampling results for samples taken for asbestos analysis and audiodosimetry noise dose during the survey March 23-24, 1981.

Per our conversations over the past week regarding the air sample levels found at the Press Operator Station, Console, Roll-up and Crusher, it is understood that follow-up samples will be taken by Bill Magers to determine the source for these levels. Please keep me informed of the work being done and sample results found for these areas.

When comparing the results of the air samples taken in the Finishing Department during this survey and those taken last year in Finishing, the levels have been substantially reduced by at least 50% and more at some operations. This is no doubt related to the increased attention and maintenance given to the dust collection system.

Noise is still a problem at the plant, especially in Finishing, which will be discussed in detail in the forthcoming survey report.

I will be available after April 10 to make a return visit to help to determine dust sources and to do some follow-up sampling. I am also working with the microscopy lab in Insulation Group to determine the type of fibers found on those samples taken March 23-24. Results of these analyses will not be available until the end of April.

Also attached find copies of the field notes (Air Monitoring Data Sheets) which you requested for use in informing the employees of their exposure levels.

If I can be of any further assistance or if you have any questions regarding the sample results please contact me.

JLW/tmf

Attachments



CTD019284

Certified

May 19, 1981

Hank Benhardt

Local 101-1010

Ambler 238

Subject

AMBLER FOLLOW-UP SURVEY - May 5, 1981

From

Janis Woodson

Location and mail code

1125/4

cc: J. McGinley - 2125/2B
D. Hall - 2125/2B
O. Kittilstad - 1125/4

Attached find the log of results for samples taken for asbestos analysis on May 5, 1981. This survey was made as a follow-up to the March survey in which samples were taken to determine the effectiveness of changes made at the Pipe Machine.

Samples taken at the Pipe Machine during this follow-up survey show greatly reduced fiber levels for the Press Operator and Mandrel Handler, as well as the area sample locations. Manufacturing processes were basically the same this day as back in March. Although the machine ran somewhat faster and had a new bottom felt back in March, the pipe size this day was the same (12").

The Crusher is still an area of concern. The sample results (103-113) have a wide range which leads to the idea that something other than the machinery at the Crusher is causing the fluctuation. Samples were taken when hoppers were dumped and it seems to have an influence on the samples taken at the aisle (103-107) but not the one closer to the back wall (108-112). Again, it is recommended that as changes are made in this area, follow-up samples should be taken in different places around the Crusher area to determine possible problems not always at the same place.

Although the problem at the Pipe Machine has subsided I am still working with the IG microscopy lab to determine the type of fibers found at the Pipe Machine. These results should be known by the middle of June. I apologize for the delay in these analyses.

Comparison fiber counts were made with Bill Magers while at the plant. The microscope was found to be out of phase which leads to erroneous counts. After aligning and setting up the microscope myself, Bill and I recounted a slide. The counts were then found to be within comparable range, but way off from his original count. It has been recommended to Bill before, and I am again insisting, that Bill set up and align the microscope every time he moves the microscope otherwise the counts he makes are in error.

A final report will be written when the results are received from the IG lab. In the meantime, if I can be of any further assistance to you or if you have any comments or questions in regard to this survey please contact me.

JLW/tmf

P.S. Also attached find copies of the field notes (Air Monitoring Data Sheets) which you requested for use in informing the employees of their exposures.

TABLE

Personal Fiber Exposures

No.	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period (f/cc)	REMARKS
Manufacturing Department								
001	Mixer Operator (3/23/81)	S. Minio	Fibers (Asbestos)	6:40a 9:18a	158	1.7		Cleaned out vacuums on second floor during this sample
002				9:18a 1:04p	226	0.25	0.71	Manufactured 10" 3300 & 12" 2400 pipe. 8 dumps made this day (27.5% of Fiber Crocidolite)
003				1:04p 3:37p	153	0.35		
004	Mixer Operator (3/24/81)	S. Minio	Fibers (Asbestos)	7:15a 7:44a	29	0.28	--	Manufacturing 10" & 12" 2400 1 dump made. (30.8% of Fiber Crocidolite)
005	Press Operator (3/23/81)	C. Worthington	Fibers (Asbestos)	6:33a 9:16a	163	0.67		Manufacturing 10" 3300 & 12" 2400 pipe. Felts: Top-77 hours Bottom-new. No down time
006				9:16a 1:02p	226	>3.7	>3.1	
007				1:02p 3:41p	159	>3.7		Wall/panel installed at approx. 3pm
008	Press Operator (3/24/81)	C. Worthington	Fibers (Asbestos)	7:47a 10:42a	175	>5.0	--	Manufacturing 10" & 12" 2400 pipe. Felts: Top-87 hours Bottom-10 hours. Wall/panel installed for this sample. Employee 20 min. break.
009	Mandrel Handler (3/23/81)	J. Mascola	Fibers (Asbestos)	6:42a 1:05p	383	>0.86	0.81	Manufacturing 10" 3300 & 12" 2400 pipe. No down time.
010				1:05p 3:51p	166	0.68		
Finishing/Fittings Department								
011	Line #3 Lathe (3/23/81)	A. DeClerico	Fibers (Asbestos)	6:11a 9:00a	169	--		Void sample - pump problems
012				9:00a 10:18a	78	--	0.15	Void sample - pump problems
013				10:18a 12:00n	102	0.26		Finishing 21" 4000 & 5000 pipe and 21" 5000 1/2 MEO's.
014				12:32p 4:05p	213	0.099		Cleanup 1:10 - 1:20p

* NOTE: (>) - GREATER THAN - Sample was heavily loaded with particulate, fibers were obscured making fiber analysis difficult.

Industrial Hygiene Survey
Ambler A/C Pipe Plant
March 23 & 24, 1981

TABLE *I (cont)*
Personal Fiber Exposures

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period (f/cc)	REMARKS
015	Line #3 Lathe Operator (3/23/81) (3/24/81) <i>(west side)</i>	A. DeClerico	Fibers (Asbestos)	12:55p 3:00p	125	0.098		Changes made to dust collec- tion system. Finishing 18" 3300-5000 pipe and 18" 5000 1/2 MEO's.
016	Line #3 Lathe Helper (3/23/81) <i>(EAST side)</i>	F. Foley <i>Talase</i>	Fibers (Asbestos)	6:13a 9:01a	168	0.061		Finishing 21" 4000 & 5000 pipe and 21" 5000 1/2 MEO's.
017				9:01a 12:00n	179	0.15	0.15	
018				12:34p 1:21p	47	0.25		Clean-up 1:10 - 1:20p
019				1:21p 4:03p	162	0.20		
020	Line #3 Lathe Helper (3/23/81) (3/24/81) <i>(East side)</i>	F. Foley <i>Talase</i>	Fibers (Asbestos)	12:54p 3:00p	126	0.25		Finishing 18" 3300-5000 pipe and 18" 5000 1/2 MEO's. <i>Changes made to dust collection system.</i>
021	Line #3 Inspector (3/23/81)	A. CamasTo	Fibers (Asbestos)	6:25a 9:04a	159	0.18	0.11	Finishing 21" 4000-5000 pipe and 21" 5000 1/2 MEO's.
022				9:04a 10:47a	103	0.047		
023				10:47a 4:03p	316	0.10		
024	Line #3 Tester Operator (3/23/81)	G. Bojaciuk	Fibers (Asbestos)	6:14a 9:02a	168	0.34		Finishing 21" 4000-5000 pipe and 21" 5000 1/2 MEO's.
025				9:02a 12:56p	234	0.27	0.26	
026				12:56p 1:22p	26	0.27		
027				1:22p 4:02p	160	0.15		

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TABLE I (cont)
Personal Fiber Exposures

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period	REMARKS
028	Line #3 Beller (3/23/81) (3/24/81)	J. Lucas	Fibers (Asbestos)	6:20a 8:58a	158	0.30		Belling 21" 4000-5000 pipe
029	(3/23/81)			8:58a 12:01p	183	0.24	0.23	
030				12:35p 4:02p	207	0.18		
031	Boring Mill #15 Operator (3/24/81)	F. Marincola	Fibers (Asbestos)	6:15a 10:30a	255	0.47		8" 150 cplgs
032				10:30a 3:14p	284	0.30	0.36	
033				3:14p 4:09p	55	0.17		
034	Boring Mill #54 Operator (3/24/81)	C. Handschin	Fibers (Asbestos)	6:02a 10:29a	267	0.12		Boring 18" 3300-5000 and 21" 5000 cplgs.
035				10:29a	-	-	0.13	Void sample
036				10:29a 3:13p	284	0.16		
037				3:13p 4:09p	56	0.067		
038	Rework Saw/Korit Drill Operator (3/23/81)	E. Enchavarria	Fibers (Asbestos)	6:15a 7:04a	49	0.30		Operating Rework Saw 12" pipe
039				7:10a 10:32a	202	0.37	0.33	Operating Korit Drill making 8 x 4 Wyes.
040				10:32a 1:11p	159	0.36		
041				1:11p 3:58p	167	0.25		
042	Pencil Sharpener Operator (3/24/81)	D. Rodriguez	Fibers (Asbestos)	8:41a 10:50a	129	0.34	0.31	Operating Pencil Sharpener 8" 1/4's.
043				10:50a 4:00p	310	0.30		Putting rings in 18" couplings

Industrial Hygiene Survey
Ambler A/C Pipe Plant
March 23 & 24, 1981

TABLE *(Cont)*

Personal Fiber Exposures

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period	REMARKS
044	Wet Saw Operator (3/24/81)	J. Reynolds	Fibers (Asbestos)	6:21a 10:36a	254	0.27		Cutting 18" 1/4 lengths.
045				10:36a 11:56a	80	0.28	0.31	
046				12:31p 3:28p	177	0.39		
047	Wet Saw Helper (3/24/81)	L. DiAmico	Fibers (Asbestos)	6:21a 10:35a	254	0.21		Cutting 18" 1/4 lengths.
048				10:35a 12:35p	120	0.23	0.21	
049				12:35p 3:17p	162	0.18		
050	Lehman Lathe Operator (3/23/81)	B. Barnett	Fibers (Asbestos)	6:45a 9:09a	144	0.43		21" 5000 sewer 1/4 lengths
051				9:09a 1:10p	241	0.21	0.35	
052				1:10p 4:15p	185	0.47		
053	Nebel Lathe Operator (3/24/81)	J. DeSilva	Fibers (Asbestos)	6:01a 10:28a	267	0.11		Making 10" 200 PAD 3'a.
054				10:28a 3:47p	319	0.083	0.10	
055	Tool Grinder (3/24/81)	F. DeTure	Fibers (Asbestos)	8:14a 10:10a	116	0.14		Unloading & stacking 10" couplings

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Industrial Hygiene Survey
Ambler A/C Pipe Plant
March 23 & 24, 1981

TABLE II

Area/Environmental Fiber Samples

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	REMARKS
056	Bag Opener (3/24/81)	Area	Fibers (Asbestos)	7:15a 7:44a	29	0.21	Setting at Bag Opener on Bag compactor while opener <u>was</u> in operation, making a dump.
057	Bag Opener (3/24/81)	Area	Fibers (Asbestos)	2:30p 2:55p	25	<0.018**	Setting at Bag Opener on Bag compactor while opener <u>was not</u> in operation.
058	Pipe Machine Rollup (3/24/81)	Area	Fibers (Asbestos)	7:48a 10:41a	173	>3.06*	Pump hanging at pipe machine roll-up/press section 5' from floor, 4' from press section, 5' from operator.
059	Pipe Machine console/ control panel (3/24/81)	Area	Fibers (Asbestos)	7:50a 10:41a	171	1.71	Pump setting on console 5' from floor, 15' from press section, 10' behind operator.
060	Crusher (3/24/81)	Area	Fibers (Asbestos)	7:54a 10:34a	164		Pump hanging 4' from floor near control panel. Not crushing but dust collector dust running through cyclone.

* NOTE: (>) - GREATER THAN - Sample was heavily loaded with particulate, fibers were obscured making fiber analysis difficult.

** NOTE: (<) - LESS THAN - Fiber concentration on filter found to be less than the average fiber concentration of blank filters.

Industrial Hygiene Survey
Ambler A/C Pipe Plant
March 23 & 24, 1981

TABLE III

Audiiodosimetry Results

No. 81	POSITION LOCATION (DATE)	NAME/AREA	TIME	MIN.	RESULTS		REMARKS
					Eight Hour Dosimeter		
					85 dBA	90 dBA	
Manufacturing Department							
061	Mandrel Handler (3/23/81)	J. Mascola	7:20a 3:51p	511	103%		Manufacturing 10" 3300 & 12" 2400 pipe
062	Tray Loader (3/24/81)	J. Carey	8:45a 4:00p	435	54%		No mandrel change made
063	Utility Truck Driver (3/23/81)	T. Rowan	7:25a 3:57p	512	117%		No mandrel change made
Finishing Department							
064	Line #3 Lathe Operator (3/23/81)	A. DeClerico	7:15a 4:05p	530	206%		Finishing 21" 4000-5000 pipe AND 21" 5000 1/2 MEO's.
065	Line #3 Lathe Helper (3/23/81)	F. Corley 	7:15a 4:03p	528	229%		Finishing 21" 4000-5000 pipe AND 21" 5000 1/2 MEO's.
066	Wet Saw Operator (3/24/81)	J. Reynolds	6:21a 3:28p	547	171%		Cutting 18" 1/4 lengths.
067	Wet Saw Helper (3/23/81)	L. DaMico	7:06a 3:57p	531	63%		Cutting 18" 1/4 lengths.
068	Korit Drill Operator (3/24/81)	A. Enchavarria	6:30a 4:00p	570	102%		Making 8 x 4 wyes
069	Lehman Lathe Operator (3/23/81)	B. Barnett	6:45a 4:15p	570	113%		21" 5000 sever 1/4 lengths
070	Finishing Truck Driver (3/24/81)	S. Wright	6:39a 4:05p	566	62%		
071	Sweeper Operator (3/24/81)	H. Dukes	6:00a 4:09p	609	42%		On sweeper throughout day.
Maintenance Department							
072	Boiler Operator (3/24/81)	L. Dukes	8:48a 4:12p	444	89%		

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Industrial Hygiene Survey
 Ambler A/C Pipe Plant
 May 5, 1981

TABLE IV
 Personal Fiber Exposures

No.	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN	RESULT f/cc	TWA FOR SAMPLE PERIOD	REMARKS
073	Press Operator (5/5/81)	C. Worthington	Fibers (Asbestos)	6:30a 8:54a	144	0.78		Manufacturing 12" 150 pipe 9 3/4 ton per hour.
074				8:54a 1:01p	247	0.27	0.45	Felt hours- Top: 44 Bottom: 31 1/2
075				1:01p 2:00p	59	0.39		
076	Mandrel Handler (5/5/81)	J. Mascola	Fibers (Asbestos)	6:42a 9:05a	143	0.072	0.049	Manufacturing 12" 150 pipe 9 3/4 ton per hour.
077				9:05a 1:50p	285	0.038		Felt hours- Top: 44 Bottom: 31 1/2
078	Crusher Operator (5/5/81)	R. Dukes	Fibers (Asbestos)	6:52a 8:59a	127	1.16	0.69	Worked entire day at crusher.
079				8:59a 12:02p	183	0.37		
080				12:40p 4:00p	200	-		Void Sample- pump problems.

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Industrial Hygiene Survey
 Tablet A/C Pipe Plant
 May 5, 1981

TABLE

Area/Environmental/Engineering Fiber Samples

No.	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN	RESULT f/cc	TWA FOR SAMPLE PERIOD	REMARKS
081	Mixing Area (5/5/81)	Area	Fibers (Asbestos)	5:14a 6:06a	52	0.20	--	Pump hanging on I beam 15' from mixing pot 6' from floor. Before start up.
082				6:06a 8:56a	170	0.11		
083	Area near Tailing pumps (5/5/81)	Area	Fibers (Asbestos)	7:03a 9:03a	120	0.056	--	Pump hanging 5' from floor 5' from pipe machine
084				9:03a 12:59p	236	0.041		
085				1:05p 4:25p	200	0.037		
086	Area at Mandrel Return (5/5/81)	Area	Fibers (Asbestos)	5:12a 6:07p	55	0.020	--	Pump hanging 15' from Tailing pump 5' from Mandrel return. Before start up
087				6:07a 9:04a	177	0.028		
088				9:04a 12:59p	235	0.033		
089	Rollup (5/5/81)	Area	Fibers (Asbestos)	6:46	--	--	--	VOID SAMPLE
090				6:47a 8:52a	125	1.32		Pump hanging at pipe machine roll- up/press section 5' from floor 4' from press section 5' from operator.
091				8:52a 1:02p	250	>0.57*		
092				1:02p 4:25p	203	>0.16*		
093	Console (5/5/81)	Area	Fibers (Asbestos)	5:10a 6:06a	54	0.07		Before start up
094				6:06a 8:53a	167	0.22	--	Pump setting on console 5' from floor 15' from press section 10' behind operator.
095				8:53a 12:59p	246	0.10		
096				12:59p 4:25p	206	0.17		

*Note: (>) Greater than - Sample was heavily loaded with particulate, fibers were obscured making fiber analyses difficult.

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TABLE *IV (cont)*

Area/Environmental/Engineering Fiber Samples

No.	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN	RESULT f/cc	TWA FOR SAMPLE PERIOD	REMARKS
097	2nd Floor (5/5/81)	Area	Fibers (Asbestos)	9:08 12:57	229	0.22	--	Pump 5' from floor #1 mixer above screw conveyor
098	Mfg. Dept. Fire Hose (5/5/81)	Area	Fibers (Asbestos)	6:45a 8:57a	132	0.26	--	Pump hanging 4' from floor at fire hose bracket at door to locker room
099				8:57a 3:18p	381	0.10		
100	Aisle near Crusher (5/5/81)	Area	Fibers (Asbestos)	5:08a 6:16a	68	0.015		Before start up
101				6:16a 8:57a	161	0.18	--	Pump setting 10' from corner of crusher area 30' from crusher
102				8:57a 3:18p	381	0.087		
103	Crusher near Aisle (5/5/81)	Area	Fibers (Asbestos)	6:55a 8:58a	123	0.22		Pump hanging above motor 4' from floor near control panel 2 hoppers dumped
104				8:58a 11:41a	163	0.54		
105				12:03p 12:33p	30	0.65	--	Shaking bags in dust collector
106				12:40p 2:18p	98	0.65		No hoppers dumped
107				2:18p 4:00p	102	0.45		Started cleanup 3:10
108	Crusher near wall (5/5/81)	Area	Fibers (Asbestos)	6:54a 8:59a	125	2.55		Pump hanging 5' from floor 3' from wall above goods on floor 2 hoppers dumped
109				8:59a 12:03p	184	0.99		
110				12:03p 12:33p	30	1.07	--	Shaking bags in dust collector
111				12:40p 2:18p	98	1.56		No hoppers dumped
112				2:18p 4:00p	82	0.098		Started cleanup 3:10
113	At crusher Above Rotary Valve Exhaust Bags (5/5/81)	Area	Fibers (Asbestos)	12:02p 12:33p	31	2.55	--	Shaking dust collector bags Visible dust released at Bags.

TABLE
Personal Fiber Exposures

pencil 1/2 hr

No.	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period (F/cc)	REMARKS
Manufacturing Department								
001	Mixer Operator (3/23/81)	S. Minio	Fibers (Asbestos)	6:40a 9:18a	158	1.7		Manufacturing 10" 3300 & 12" 2400 pipe. 8 dumps this day (27.5% of Fiber Crocidolite)
002				9:18a 1:04p	226	0.25	0.71	Cleaned out vacuums on second floor during this sample.
003				1:04p 3:37p	153	0.35	1.7 2.36	<i>see sample</i>
004	Mixer Operator (3/24/81)	S. Minio	Fibers (Asbestos)	7:15a 7:44a	29	0.28	—	Manufacturing 10" & 12" 2400 1 dump made. (22.0% of Fiber Crocidolite)
005	Press Operator (3/23/81)	C. Worthington	Fibers (Asbestos)	6:33a 9:16a	163	0.67		Manufacturing 10" 3300 & 12" 2400 pipe. 7 hours Felts: Top - 2 hours Bottom - NEW
006				9:16a 1:02p	226	>3.1*	>3.1*	No down time
007				1:02p 3:41p	159	>5.7*	1.7	Wall/panel installed at approx. 3pm
008	Press Operator (3/24/81)	C. Worthington	Fibers (Asbestos)	7:47a 10:42a	175	>5.0*	—	Wall/panel installed for this sample. 2nd dump. (Manufacturing 10" & 12" 2400 pipe) Felts: Top - 7 hours Bottom - 10 hours
009	Mandrel Handler (3/23/81)	J. Mascola	Fibers (Asbestos)	6:42a 1:05p	383	>0.86*	0.81	MANUFACTURING 10" 3300 & 12" 2400 pipe
010				1:05p 3:51p	166	0.68	1.75	No down time
Finishing/Fittings Department								
011	Line #3 Lathe (3/23/81)	A. DeClerico	Fibers (Asbestos)	6:11a 9:00a	169	—		VOID SAMPLE - pump problems
012				9:00a 10:18a	78	—		Void sample - pump problems
013				10:18a 12:00n	102	0.26	0.15 0.10	Finishing 21" 4000 & 5000 pipe AND 21" 5000 MEOs
014				12:32p 4:05p	213	0.099		Cleanup 1:10 - 1:20p

NOTE: (>) - GREATER THAN - Sample was heavily loaded with particulate, fibers were obscured making fiber analysis difficult.

TABLE
 Personal Fiber Exposures

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period <i>f/cc</i>	REMARKS
015	Line #3 Lathe Operator (control side) (3/24/81)	A. DeClerico	Fibers (Asbestos)	12:55p 3:00p	125	0.098		Changes MADE to Dust collection system, had been improved Finishing 18" 3300 - 5000 pipe AND 21" 5000 1/2 ME's
016	Line #3 Lathe Helper (drive side) (3/23/81)	F. Toley Talese	Fibers (Asbestos)	6:13a 9:01a	168	0.061		Finishing 21" 4000 & 5000 pipe AND 21" 5000 1/2 ME's
017				9:01a 12:00n	179	0.15	0.15	
018				12:34p 1:21p	47	0.25	0.30	Clean-up 1:10 - 1:20p
019				1:21p 4:03p	162	0.20		
020	Line #3 Lathe Helper (drive side) (3/24/81)	F. Toley Talese	Fibers (Asbestos)	12:54p 3:00p	126	0.25		Finishing 18" 3300 - 5000 pipe AND 18" 5000 1/2 ME's changes made to dust collection system
021	Line #3 Inspector (3/23/81)	A. Canasso	Fibers (Asbestos)	6:25a 9:04a	159	0.18		Finishing 21" 4000-5000 pipe AND 21" 5000 1/2 ME's
022				9:04a 10:47a	103	0.047	0.11	
023				10:47a 4:03p	316	0.10	0.71	
024	Line #3 Tester Operator (3/23/81)	G. Bojaciuk	Fibers (Asbestos)	6:14a 9:02a	168	0.34		Finishing 21" 4000-5000 pipe AND 21" 5000 1/2 ME's
025				9:02a 12:56p	234	0.27	0.26	
026				12:56p 1:22p	26	0.27	0.67	
027				1:22p 4:02p	160	0.15		

Industrial Hygiene Survey
Ambler A/C Pipe Plant
March 22 & 24, 1981

TABLE
Personal Fiber Exposures

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period	REMARKS
028	Line #3 Beller (3/23/81)	J. Lucas	Fibers (Asbestos)	6:20a 8:58a	158	0.30		Belling 21" 4000-5000 pips
029				8:58a 12:01p	183	0.24	0.23	
030				12:35p 4:02p	207	0.18		
031	Boring Mill #15 Operator (3/24/81)	F. Marincola	Fibers (Asbestos)	6:15a 10:30a	255	0.47		8" 150 pips
032				10:30a 3:14p	284	0.30	0.36 2.0	
033				3:14p 4:09p	55	0.17		
034	Boring Mill #54 Operator (3/24/81)	C. Handschin	Fibers (Asbestos)	6:02a 10:29a	267	0.12		Boring 18" 5000-6000 pips Boring 18" 3300-5000 AUB 21" 5000 cplgs.
035				10:29a	-	-		Void sample
036				10:29a 3:13p	284	0.16	0.13 0.32	
037				3:13p 4:09p	56	0.6 0.067		
038	Rework Saw/Korit Drill Operator (3/23/81)	E. Enchavarria	Fibers (Asbestos)	6:15a 7:04a	49	0.30		Operating Rework Saw 12" PIPE
039				7:10a 10:32a	202	0.37	0.33 0.44	Operating Korit Drill making 8 x 4 NYEs
040				10:32a 1:11p	159	0.25 0.36		
041				1:11p 3:58p	167	0.25		
042	Pencil Sharpener Operator (3/24/81)	D. Rodriguez	Fibers (Asbestos)	8:41a 10:50a	129	0.34	0.31	Operating Pencil Sharpener 8" 1/4"
043				10:50a 4:00p	310	0.30	1.1	Putting rings on 18" couplings

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TABLE
 Personal Fiber Exposures

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	TWA for Sample Period	REMARKS
044	Wet Saw Operator (3/24/81)	J. Reynolds	Fibers (Asbestos)	6:21a 10:36a	254	0.27		Cutting 18" 1/4 Lengths
045				10:36a 11:56a	80	0.29	0.31	
046				12:31p 3:28p	177	0.39	1.05	
047	Wet Saw Helper (3/24/81)	L. DiAmico	Fibers (Asbestos)	6:21a 10:35a	254	0.21		"
048				10:35a 12:35p	120	0.23	0.21	
049				12:35p 3:17p	162	0.18		
050	Lehman Lathe Operator (3/23/81)	B. Barnett	Fibers (Asbestos)	6:45a 9:09a	144	0.43		21" 5000 sewer 1/4 lengths
051				9:09a 1:10p	241	0.21	0.35	
052				1:10p 4:15p	185	0.47	0.38	
053	Nebel Lathe Operator (3/24/81)	J. DeSilva	Fibers (Asbestos)	6:01a 10:28a	267	0.11		Making 10" 200 PAD 3's
054				10:28a 3:47p	319	0.083	0.10 0.37	
055	Tool Grinder (3/24/81)	F. DeTuro	Fibers (Asbestos)	8:14a 10:10a	116	0.14		Unloading & stacking 10" couplings

TABLE _____
 Area/Environmental Fiber Samples

No. 81	POSITION LOCATION (DATE)	NAME/AREA	ANALYSIS FOR	TIME	MIN.	RESULT (f/cc)	AWA for Sample Period	REMARKS
056	Bag Opener (3/24/81)	Area	Fibers (Asbestos)	7:15a 7:44a	29	0.21		Setting at Bag Opener on Bag compactor while opener was in operation, making a dump.
057	Bag Opener (3/24/81)	Area	Fibers (Asbestos)	2:30p 2:55p	25	<0.018*		Setting at Bag Opener on Bag compactor while opener was not in operation.
058	Pipe Machine Rollup (3/24/81)	Area	Fibers (Asbestos)	7:48a 10:41a	173	>3.06*		Pump hanging at pipe machine roll-up/press section 5' from floor, 4' from press section, 5' from OPERATOR.
059	Pipe Machine console/ control panel (3/24/81)	Area	Fibers (Asbestos)	7:50a 10:41a	171	1.71		Pump setting on console 5' from floor, 15' from press section, 10' from OPERATOR behind.
060	Crusher (3/24/81)	Area	Fibers (Asbestos)	7:54a 10:34a	164	>3.91* 3.6		Pump hanging 4' from floor near control panel NOT CRUSHING but Dust collected dust running through cyclone.

* NOTE: (>) Greater Than - ~~See~~ Type same as on Page 1

** NOTE: (<) Less Than - Fiber concentration on filters
 found to be less than the average fiber concentration of
 blank filters.

TABLE
 Audiometry Results

No. 81	POSITION LOCATION (DATE)	NAME/AREA	TIME	MIN.	RESULTS		REMARKS
					Eight Hour Dosimeter		
					85 dBA	90 dBA	
Manufacturing Department							
061	Mandrel Handler (3/23/81)	J. Mascola	7:20a 3:51p	511	103%		Manufacturing 10" 3500 & 12" 2400 Pipe
062	Tray Loader (3/24/81)	J. Carey	8:45a 4:00p	435	54%		No mandrel change made
063	Utility Truck Driver (3/23/81)	T. Rowan	7:25a 3:57p	512	117%		No mandrel change made
Finishing Department							
064	Line #3 Lathe Operator (3/23/81)	A. DeClerico	7:15a 4:05p	530	206%		Finishing 21" 4000-5000 PIPE AND 21" 5000 1/2 MEOS
065	Line #3 Lathe Helper (3/23/81)	F. Toley	7:15a 4:03p	528	229%		"
066	Wet Saw Operator (3/24/81)	J. Reynolds	6:21a 3:28p	547	171%		Cutting 18" 1/4 Length
067	Wet Saw Helper (3/23/81)	L. DeMico	7:06a 3:57p	531	63%		"
068	Korit Drill Operator (3/24/81)	A. Enchavarria	6:30a 4:00p	570	102%		making 8x4 wyes
069	Lehman Lathe Operator (3/23/81)	B. Barnett	6:45a 4:15p	570	113%		21" 5000 SEWER 1/4 lengths
070	Finishing Truck Driver (3/24/81)	S. Wright	6:39a 4:05p	566	62%		
071	Sweeper Operator (3/24/81)	H. Dukes —	6:00a 4:09p	609	42%		ON SWEEPER Throughout day
Maintenance Department							
072	Boiler Operator (3/24/81)	L. Dukes	8:48a 4:12p	444	89%		