
S H E R W I N A S B E S T O S A I R S A M P L E S

DATE: August 21, 1997
TO: Homer Cole
FROM: ~~CH~~ Craig Kimmel
RE: Asbestos Ambient Air Samples Collected at Sherwin
Plant (July 1997).

PLAINTIFF'S EXHIBIT

RMC-698

During the month of July there were one-hundred and thirteen (113) asbestos area samples collected at the Sherwin Plant. The samples were collected and analyzed utilizing the NIOSH 7400 Analytical Method. ,

Ninety-nine percent (99%) of the samples were <50% of the Reynolds Occupational Exposure Limit (OEL) of 0.1 f/cc. Ninety-six percent (96%) of the samples analyzed were below the detection limit of the NIOSH 7400 Analytical Method. Two (2) of the samples were occluded by the microscopist analyzing the samples. See the attached table for a summary of the information.

If you have any questions regarding this data please contact me at (512)777-2574.

AUG 25 1997

RMC080014010020830



Reynolds Metals Company
Sherwin Alumina Plant
Asbestos Ambient Air Samples
July 1997

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc)
6979	07/01/97	1 Dig. Unit 1-12 Heater	0730	1030	< .02
6980	07/01/97	1 Dig. Unit 1-12 Heater	0730	1030	< .02
6999	07/01/97	2 Low Pressure Feed Pump Lines	0705	1530	< .01
7000	07/01/97	2 Low Pressure Feed Pump Lines	0705	1530	< .01
7003	07/02/97	2 Low Pressure Feed Pump Lines	0705	0925	Ocluded
7004	07/02/97	2 Low Pressure Feed Pump Lines	0705	1400	< .01
7036	07/01/97	9 Boiler Gasket	0845	1145	< .01
7037	07/01/97	9 Boiler Gasket	0845	1145	< .01
6995	07/02/97	1 Dig. Unit 1-13 Heater	0730	1100	< .01
6996	07/02/97	1 Dig. Unit 1-13 Heater	0730	1100	< .01
7007	07/02/97	Facility 110 - piperack by the tracks	0935	1300	Ocluded
7032	07/03/97	1 Dig. Unit 1-14 Heater	0705	1015	< .01
7033	07/03/97	1 Dig. Unit 1-14 Heater	0705	1015	< .01
7053	07/03/97	4 Digester Non Condensable Lines	0715	1420	< .01
7054	07/03/97	4 Digester Non Condensable Lines	0715	1420	< .01
7055	07/03/97	4 Digester Non Condensable Lines	0715	1420	< .01
7118	07/08/97	4 Digester Non Condensable Lines	0905	1445	< .01
7119	07/08/97	4 Digester Non Condensable Lines	0905	1445	< .01
7120	07/08/97	4 Digester Non Condensable Lines	0905	1445	< .01

Asbestos Ambient Air
Samples (cont)
July 1997

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc)
7058	07/03/97	30 Area Lime Pump Lines	1440	1610	< .02
7059	07/03/97	30 Area Lime Pump Lines	1440	1610	< .02
7081	07/07/97	1 Digester 15 Heater Dome	0715	0923	< .02
7082	07/07/97	1 Digester 15 Heater Dome	0716	0923	< .02
7115	07/07/97	Remove galbestos from stair access to 35 Bldg.	1000	1420	< .01
7089	07/08/97	1 Dig. Unit 1-16 Heater	0710	1000	< .01
7090	07/08/97	1 Dig. Unit 1-16 Heater	0710	1000	< .01
7140	07/08/97	50 Area Building (Feed End) Blw. 1 & 2 Col.	1340	1530	< .02
7141	07/08/97	50 Area Building (Feed End) Blw. 1 & 2 Col.	1340	1530	< .02
7144	07/09/97	1 Dig. Unit 1-17 Heater	0655	1000	< .01
7145	07/09/97	1 Dig. Unit 1-17 Heater	0655	1000	< .01
7165	07/09/97	1 Dig. 16" 300# Steam Header 90's	0747	1551	< .01
7166	07/09/97	1 Dig. 16" 300# Steam Header 90's	0747	1548	< .01
7167	07/09/97	1 Dig. 16" 300# Steam Header 90's	0746	1547	< .01
7185	07/10/97	1 Dig. 16" 300# Steam Header 90's	0738	1125	< .01
7186	07/10/97	1 Dig. 16" 300# Steam Header 90's	0738	1125	< .01
7203	07/11/97	33 Washer Wash Water Station #1	0840	1130	< .01
7204	07/11/97	33 Washer Wash Water Station #1	0840	1130	< .01
7250	07/15/97	1 Dig. 16" 300# Steam Header 90's & 6" Line	0712	1523	< .01

Asbestos Ambient Air
Samples (cont)
July 1997

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc)
7251	07/15/97	1 Dig. 16" 300# Steam Header 90's & 6" Line	0712	1523	< .01
7273	07/15/97	5 Dig. Unit Heaters Insulation Removal	0740	1530	< .01
7274	07/15/97	5 Dig. Unit Heaters Insulation Removal	0740	1530	< .01
7275	07/15/97	5 Dig. Unit Heaters Insulation Removal	0740	1530	< .01
7278	07/16/97	5 Dig. Unit Heaters Insulation Removal	0730	1530	< .01
7279	07/16/97	5 Dig. Unit Heaters Insulation Removal	0730	1530	< .01
7310	07/17/97	4-1 Strong Liquor Pump	0939	1139	< .02
7311	07/17/97	4-1 Strong Liquor Pump	0935	1139	< .02
7323	07/17/97	5 Dig. Unit Heaters Insulation Removal	0725	1500	< .01
7324	07/17/97	5 Dig. Unit Heaters Insulation Removal	0725	1500	< .01
7325	07/17/97	5 Dig. Unit Heaters Insulation Removal	0725	1500	< .01
7359	07/21/97	5 Dig. Unit Heaters Insulation Removal	0700	1430	< .01
7360	07/21/97	5 Dig. Unit Heaters Insulation Removal	0700	1430	< .01
7361	07/21/97	5 Dig. Unit Heaters Insulation Removal	0700	1430	< .01
7374	07/21/97	33-2 & 33-3 Good Cond. Pumps Suction Piping	1042	1615	< .01
7375	07/21/97	33-2 & 33-3 Good Cond. Pumps Suction Piping	1045	1516	< .01
7376	07/21/97	33-2 & 33-3 Good Cond. Pumps Suction Piping	1048	1617	< .01
7390	07/22/97	33-2 & 33-3 Good Cond. Pumps Suction Piping	0730	1500	< .01
7391	07/22/97	33-2 & 33-3 Good Cond. Pumps Suction Piping	0733	1502	< .01

Asbestos Ambient Air Samples
(cont)
July 1997

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc)
7392	07/22/97	33-2 & 33-3 Good Cond. Pumps Suction Piping	0736	1503	< .01
7386	07/22/97	5 Digester Heater Insulation Removal	0830	1500	< .01
7387	07/22/97	5 Digester Heater Insulation Removal	0830	1500	< .01
7430	07/23/97	5 Digester Heater Insulation Removal	0715	1400	< .01
7431	07/23/97	5 Digester Heater Insulation Removal	0715	1400	< .01
7432	07/23/97	5 Digester Heater Insulation Removal	0715	1400	< .01
7416	07/23/97	35 Building Water Pipe In janitor	1000	1330	< .01
7426	07/24/97	3 Digester Heater Domes	0724	0925	< .02
7427	07/24/97	3 Digester Heater Domes	0723	0925	< .02
7592	07/24/97	5 Digester Safety Deck	0940	1540	< .01
7560	07/24/97	5 Digester Flash Tanks "Mastic"	0930	1530	< .01
7561	07/24/97	5 Digester Flash Tanks "Mastic"	0930	1530	< .01
7443	07/24/97	30 Area Lime Pump Lines Insulation Removal	0715	1245	< .01
7444	07/24/97	30 Area Lime Pump Lines Insulation Removal	0715	1245	< .01
7481	07/28/97	3 Digester 3-12 Heater Domes	0728	1000	< .02
7482	07/28/97	3 Digester 3-12 Heater Domes	0730	1000	< .02
7496	07/28/97	3 Evaporator 4,5,6 Effect Bottom Domes	1332	1600	< .02
7501	07/29/97	3 Evaporator 4,5,6 Effect Bottom Domes	0713	1135	< .01
7620	07/28/97	5 Digester Flash Tanks "Mastic" (5-6 thru 5-11)	0700	1510	< .01

Asbestos Ambient Air
Samples (cont)
July 1997

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc)
7621	07/28/97	5 Digester Flash Tanks "Mastic" (5-6 thru 5-11)	0700	1500	< .01
7519	07/28/97	5 Digester Unit Cleanup	1400	1630	.01
7520	07/28/97	5 Digester Unit Cleanup	1400	1630	< .02
7521	07/28/97	5 Digester Unit Cleanup	1400	1630	< .02
7522	07/28/97	5 Digester Unit Cleanup	1410	1642	< .02
7523	07/28/97	5 Digester Unit Cleanup	1405	1636	< .02
7531	07/29/97	3 Digester Heater Domes (3-13 Heater)	0705	1005	< .01
7532	07/29/97	3 Digester Heater Domes (3-13 Heater)	0705	1005	< .01
7649	07/29/97	5 Digester Piping Flash Tanks	0800	1500	< .01
7650	07/29/97	5 Digester Piping Flash Tanks	0800	1520	< .01
7639	07/29/97	5 Digester Steam Line Mastic	1000	1600	< .01
7640	07/29/97	5 Digester Steam Line Mastic	1000	1605	< .01
7641	07/29/97	5 Digester Steam Line Mastic	1010	1610	< .01
7551	07/30/97	5 Unit Safety Deck M.E.	0815	1430	< .01
7675	07/30/97	5 Digester Steam Lines	0730	1400	< .01
7676	07/30/97	5 Digester Steam Lines	0740	1410	< .01
7570	07/30/97	5 Digester 5-1 thru 5-4 F.T. Derby Lines	0855	1425	< .01
7577	07/30/97	5 Digester Unit Heater Flange Points	1400	18250	< .01
7578	07/30/97	5 Digester Unit Heater Flange Points	1400	1830	< .01

Asbestos Ambient Air
Samples (cont)
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Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc)
7585	07/30/97	5 Digester Unit Vapor Header 90°s	1415	1830	< .01
7599	07/31/97	5 Digester 1-10 Vertical Heater Headers	0728	1503	< .01
7600	07/31/97	5 Digester 1-10 Vertical Heater Headers	0725	1500	.05
7663	07/31/97	5 Digester Heater 90°s	0730	1600	< .01
7664	07/31/97	5 Digester Heater 90°s	0730	1610	< .01
7588	07/31/97	5 Digester Unit 5-5 thru 5-8 F.T. Derby Lines	0732	1534	< .01
7589	07/31/97	5 Digester Unit 5-5 thru 5-8 F.T. Derby Lines	0730	1530	< .01
7050	07/02/97	#8 Desilicator	1015	1635	< .01
7066	07/03/97	#8 Desilicator	0640	1635	< .01
7107	07/04/97	#8 Desilicator	0705	1625	< .01
7149	07/08/97	#8 Desilicator	0620	1630	< .01
7189	07/09/97	#8 Desilicator	0610	1610	< .01
7217	07/10/97	#8 Desilicator	0650	1610	< .01
7237	07/14/97	#8 Desilicator	0615	1625	< .01
7262	07/15/97	#8 Desilicator	0635	1630	< .01
7292	07/16/97	#8 Desilicator	0625	1630	< .01
7336	07/17/97	#8 Desilicator	0610	1540	< .01
7473	07/21/97	#8 Desilicator	0615	1605	< .01

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