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RMC

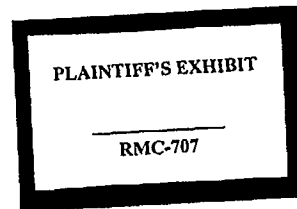
SHERWIN ASBESTOS AMBIENT AIR SAMPLES

DATE: April 30, 1999

TO: Homer Cole

FROM: Richard (Rick) Hicks

RE: Asbestos Ambient Air Samples Collected at Sherwin Plant - March 1999.



During the month of March there were Fifty-two (52) asbestos ambient area samples collected at the Sherwin Plant. The samples were collected and analyzed utilizing the NIOSH 7400 Analytical Method.

Asbestos ambient air samples are collected throughout the Sherwin Plant. Typically they are collected in the clean area adjacent to an asbestos abatement project. The project may be a full enclosure, glovebag, or other approved abatement method. The samples serve as a means to ensure the abatement method was conducted properly. The sample also serves as a means to collect data throughout the Plant and helps demonstrate that levels are well below the Occupational Exposure Limit.

Asbestos abatement jobs vary in the amount of time in which may be needed for their completion. Sample results may appear elevated due to short run times and low volumes of air that were needed to complete an asbestos abatement job. The short duration of some removal projects effects the minimum detection limit of the analytical method and therefore the concentration may appear elevated. For those short projects the goal is to achieve a less than value "<" for the concentration.

One hundred percent (100%) of the samples that were taken were < 50% of the Reynolds Occupational Exposure Limits (OEL) of 0.1 f/cc. One Hundred (100%) of the samples analyzed were below the detection limits of the NIOSH 7400 Analytical Method. See the attached table for a summary of the information.

Note:

Samples 14040 & 13915 were occluded or voided.

Sample 13900 was sent to a third party laboratory and was analyzed using (TEM) NIOSH 7402.

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

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Reynolds Metals Company		Section	Instruction #	Manual
Sherwin Alumina Plant		2.0	1	III-TIER 3
Industrial Hygiene - Attachment 2.1-12		Page		
Asbestos Ambient Air Samples		1 of 1		
		Revision		
		1		



Reynolds Metals Company

Sherwin Alumina Plant
Asbestos Ambient Air Samples
March 1999

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc) TWA
13834	3/1/1999	Fac. 110 #3 Dearator	1300	1505	<.02
13835	3/1/1999	Fac. 110 #3 Dearator	1305	1450	<.02
13842	3/2/1999	Bechtel Tie In/Cleaning & Patch	1427	1515	<.05
13852	3/2/1999	3-18 Heater Slurry Lines	0708	1430	<.01
13853	3/2/1999	3-18 Heater Slurry Lines	0709	1410	<.01
13871	3/3/1999	Fac. 110 #8 Boiler Piping/West Side of ID Fan	0720	0800	<.03
13872	3/3/1999	Fac. 110 #8 Boiler Piping/West Side of ID Fan	0721	0800	<.03
13883	3/5/1999	Fac. 45 Tray Over Flow Header Gasket Removal	1435	1728	<.01
13884	3/5/1999	Fac. 45 Tray Over Flow Header Gasket Removal	1437	1727	<.01
13899	3/8/1999	Lime Heater Heat Exchangers 30-1, 30-2, 30-3	1110	1510	<.01
13900	3/8/1999	Lime Heater Heat Exchangers 30-1, 30-2, 30-3	1110	1510	<.01
13907	3/9/1999	Lime Heater Heat Exchangers 30-1, 30-2, 30-3	0658	1500	<.01
13908	3/9/1999	Lime Heater Heat Exchangers 30-1, 30-2, 30-3	0658	1500	<.01
13935	3/10/1999	Lime Heater Heat Exchangers 30-1, 30-2, 30-3	0710	1315	<.01
13936	3/10/1999	Lime Heater Heat Exchangers 30-1, 30-2, 30-3	0710	1315	<.01
13891	3/8/1999	Fac. 42 #4 Evaporator Circulating Pump Line	0722	1100	<.01
13892	3/8/1999	Fac. 42 #4 Evaporator Circulating Pump Line	0723	1100	<.01
13915	3/9/1999	Fac. 42 #4 Evaporator Circulating Pump Line	1050	1101	Voided
13916	3/9/1999	Fac. 42 #4 Evaporator Circulating Pump Line	1345	1430	<.04

* EXCURSION

Jim Arsam
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Reynolds Metals Company Sherwin Alumina Plant Industrial Hygiene - Attachment 2.1-12 Asbestos Ambient Air Samples			
Section		Instruction #	Manual
2.0		1	IH-TIER 3
		Page	Revision
		2 of 2	1

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc) (TWA)
13950	3/8/1999	Bechtel Tie-Ins	0817	1030	<.02
13957	3/9/1999	Bechtel Tie-Ins	0802	1515	<.02
13929	3/10/1999	Fac. 110 600# Steam Line on Pipe Rack North #4 Blr	1330	1414	<.04
13943	3/11/1999	300/135# PRV Steam Motor Valve Station	0720	0900	<.02
13960	3/11/1999	#3 Dearator	1250	1445	<.02
13961	3/11/1999	#3 Dearator	1255	1443	<.02
13971	3/14/1999	Area IV Gaskets	1406	1500	<.04
13972	3/14/1999	Area IV Gaskets	1407	1500	<.04
14001	3/15/1999	Fac. 30, 1-7 Flash Tank	1009	1559	<.01
14013	3/16/1999	Fac. 30, 1-7 Flash Tank	0651	1556	<.01
14025	3/17/1999	Fac. 30, 1-7 Flash Tank	0700	1433	<.01
13984	3/16/1999	#1 Evaporator Patch & Repair	0954	1015	<.09*
13990	3/16/1999	#3 Evaporator	1035	1402	<.04
13991	3/16/1999	#3 Evaporator	1040	1400	<.02
14040	3/18/1999	Spent Liquor Hose Down	1155-	1255	Ocluded
14041	3/18/1999	Spent Liquor Hose Down	1157	1255	<.04
14048	3/18/1999	#4 TG Drain Lines	0815	0853	<.05*
14049	3/18/1999	#4 TG Drain Lines	0817	0852	<.06*
14055	3/18/1999	#7 Boiler Gaskets	0715	1415	<.01
14056	3/18/1999	#7 Boiler Gaskets	0720	1415	<.01
14059	3/19/1999	2-1 Evaporator Hotwell Pump Gaskets	1420	1640	<.02

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Reynolds Metals Company Sherwin Alumina Plant Industrial Hygiene - Attachment 2.1-12 Asbestos Ambient Air Samples	Section	Instruction #	Manual
	2.0	1	III-TIER 3
		Page	Revision
		3 of 3	1

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May 25, 1999

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