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SHERWIN ASBESTOS AMBIENT AIR SAMPLES

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DATE: June 24, 1999

TO: Homer Cole

FROM: Richard (Rick) Hicks

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

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PLAINTIFF'S EXHIBIT

RMC-709

During the month of May there were fifty-one (51) 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.

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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.

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

RMC080014010020878

|                                        |  |               |           |
|----------------------------------------|--|---------------|-----------|
| 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  |
|                                        |  | 1 of 1        | 1         |



**Reynolds Metals Company**  
 Sherwin Alumina Plant  
 Asbestos Ambient Air Samples  
 May 1999

| Sample ID<br>(RMC Number) | Sample<br>Date | Location/Area                                          | Start<br>Time | Stop<br>Time | Concentration (f/cc) TWA |
|---------------------------|----------------|--------------------------------------------------------|---------------|--------------|--------------------------|
| 14527                     | 5/6/1999       | Fac. 40 Caustic Cleaning Tank                          | 1300          | 1530         | <.01                     |
| 14721                     | 5/13/1999      | Co-Gen Construction Site, 10" Fuel Gas Line            | 0808          | 1055         | <.01                     |
| 14722                     | 5/13/1999      | Co-Gen Construction Site, 10" Fuel Gas Line            | 0814          | 1102         | <.01                     |
| 14617                     | 5/13/1999      | #1 & #2 Air Compressor - PRV Valves & Steam Trap Lines | 1300          | 1600         | <.01                     |
| 14590                     | 5/13/1999      | #4 Boiler Pre-Heater Duct Work                         | 0742          | 0812         | <.06 (Excursion)         |
| 14556                     | 5/13/1999      | #2 Evaporator 4 <sup>th</sup> Effect                   | 0950          | 1050         | <.03                     |
| 14557                     | 5/13/1999      | #2 Evaporator 4 <sup>th</sup> Effect                   | 0950          | 1050         | <.03                     |
| 14574                     | 5/15/1999      | #113 Pump Off Header Gasket                            | 1305          | 1405         | <.03                     |
| 14596                     | 5/17/1999      | Fac. 24 #1 Lime Silo Siding Removal                    | 0828          | 1503         | <.01                     |
| 14597                     | 5/17/1999      | Fac. 24 #1 Lime Silo Siding Removal                    | 0828          | 1503         | <.01                     |
| 14731                     | 5/24/1999      | Fac. 24 #1 Lime Silo Siding Removal                    | 0816          | 1521         | <.01                     |
| 14732                     | 5/24/1999      | Fac. 24 #1 Lime Silo Siding Removal                    | 0817          | 1522         | <.01                     |
| 14739                     | 5/25/1999      | Fac. 24 #1 Lime Silo Siding Removal                    | 1003          | 1502         | <.01                     |
| 14740                     | 5/25/1999      | Fac. 24 #1 Lime Silo Siding Removal                    | 1004          | 1500         | <.01                     |
| 14782                     | 5/27/1999      | Fac. 24 #1 Lime Silo Siding Removal                    | 0730          | 1500         | <.01                     |
| 14627                     | 5/17/1999      | #3 Digester 3-1 Flash Tank                             | 0926          | 1515         | <.01                     |
| 14639                     | 5/18/1999      | #3 Digester 3-1 Flash Tank                             | 1100          | 1515         | <.01                     |
| 14652                     | 5/19/1999      | #3 Digester 3-1 Flash Tank                             | 0710          | 1346         | <.01                     |
| 14658                     | 5/19/1999      | #3 Digester 3-1 Flash Tank                             | 1505          | 1605         | <.01                     |

\* EXCURSION

Jim Arsam  
10/97

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

| Sample ID<br>(RMC Number) | Sample<br>Date | Location/Area                                  | Start<br>Time | Stop Time | Concentration (f/cc) (TWA) |
|---------------------------|----------------|------------------------------------------------|---------------|-----------|----------------------------|
| 14659                     | 5/19/1999      | #3 Digester 3-1 Flash Tank                     | 1505          | 1605      | <.01                       |
| 14683                     | 5/20/1999      | #9 Kiln Siding                                 | 0725          | 0900      | <.02                       |
| 14684                     | 5/20/1999      | #9 Kiln Siding                                 | 0725          | 0900      | <.02                       |
| 14687                     | 5/21/1999      | WOF Pre-Mix Tank - Steam Line 90               | 1130          | 1300      | <.02                       |
| 14815                     | 5/25/1999      | #1 Boiler Top Doors                            | 0935          | 1500      | <.02                       |
| 14816                     | 5/25/1999      | #1 Boiler Top Doors                            | 0937          | 1500      | <.01                       |
| 14789                     | 5/25/1999      | Fac. 141 #8 Lab                                | 0810          | 1450      | <.01                       |
| 14790                     | 5/25/1999      | Fac. 141 #8 Lab                                | 0805          | 1450      | <.01                       |
| 14791                     | 5/25/1999      | Fac. 141 #8 Lab                                | 0755          | 1450      | <.01                       |
| 14792                     | 5/25/1999      | Fac. 141 #8 Lab                                | 0800          | 1450      | <.01                       |
| 14799                     | 5/26/1999      | Fac. 141 #8 Lab                                | 0735          | 1105      | <.02                       |
| 14800                     | 5/26/1999      | Fac. 141 #8 Lab                                | 0730          | 1100      | <.02                       |
| 14801                     | 5/26/1999      | Fac. 141 #8 Lab                                | 0730          | 1100      | <.02                       |
| 14802                     | 5/26/1999      | Fac. 141 #8 Lab                                | 0735          | 1100      | <.02                       |
| 14809                     | 5/27/1999      | Fac. 141 #8 Lab                                | 0735          | 1445      | <.01                       |
| 14810                     | 5/27/1999      | Fac. 141 #8 Lab                                | 0730          | 1440      | <.01                       |
| 14811                     | 5/27/1999      | Fac. 141 #8 Lab                                | 0730          | 1440      | <.01                       |
| 14812                     | 5/27/1999      | Fac. 141 #8 Lab                                | 0735          | 1440      | <.01                       |
| 14747                     | 5/25/1999      | Fac. 30 #3-1 Flash Tank                        | 0751          | 1059      | <.01                       |
| 14823                     | 5/26/1999      | #1 Boiler Fuel Gas Header                      | 0930          | 1500      | <.01                       |
| 14824                     | 5/26/1999      | #1 Boiler Fuel Gas Header                      | 0930          | 1500      | <.01                       |
| 14831                     | 5/27/1999      | #1 Boiler Fuel Gas Header                      | 0730          | 1330      | <.01                       |
| 14832                     | 5/27/1999      | #1 Boiler Fuel Gas Header                      | 0730          | 1330      | <.01                       |
| 14961                     | 6/1/1999       | Fac. 30/26 Slurry Lines (26 to 5 Digester)     | 0945          | 1500      | <.01                       |
| 14873                     | 5/27/1999      | #1 Boiler Door (Top Level) - East & West Sides | 1115          | 1415      | <.01                       |

Jim Arsam  
10-97

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