

# ASARCO

PLAINTIFF'S EXHIBIT

ASA-1508

December 21, 1995

Technical Services Center  
R.A. Peterson  
Director  
D.E. Holt  
Engineering Manager  
J.B. Richardson  
Environmental Sciences Manager  
M.G. King  
Research Manager

Ms. Peggy Munsell  
EL PASO PLANT

Please find attached the analytical results for the bulk asbestos samples received 12/08/95 under Project No. ASB 1195.

The bulk asbestos has been analyzed by visual estimation based on EPA-600/M4-82-020 (Dec. 1982) optical microscopy test method.

I can be reached at Ext. 240 if you have any questions or comments.



T.J. Jacobi  
Chemist

cc: SGCothrin (w/attach.)  
GRStanga "



ASARCO TECHNICAL SERVICES CENTER  
ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L952744

| LAB NO    | DATE COLLECTED | DESCRIPTION            | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS     | METHOD |
|-----------|----------------|------------------------|-----------|-------|-------|---------|---------------|---------------|--------|
| L952744-1 | 01-DEC-95      | RVB-12 3" Pipe Insul.  | AMOSTE    | 15    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | ANTHOP    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CHRY5     | 2     | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CROCID    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | TREM/ACT  | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
| L952744-2 | 01-DEC-95      | RVB-13 3" Pipe Insul.  | AMOSTE    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | ANTHOP    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CHRY5     | 11    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CROCID    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | TREM/ACT  | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
| L952744-3 | 01-DEC-95      | RVB-14 Furnace Flue    | AMOSTE    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | ANTHOP    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CHRY5     | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CROCID    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | TREM/ACT  | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
| L952744-4 | 01-DEC-95      | RVB-15 South Preheater | AMOSTE    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | ANTHOP    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CHRY5     | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CROCID    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | TREM/ACT  | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
| L952744-5 | 01-DEC-95      | RST-1 Gasket           | AMOSTE    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | ANTHOP    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CHRY5     | 50    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CROCID    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | TREM/ACT  | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
| L952744-6 | 01-DEC-95      | RST-2 Rope             | AMOSTE    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | ANTHOP    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CHRY5     | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CROCID    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | TREM/ACT  | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
| L952744-7 | 01-DEC-95      | HL-1 Belt 15 Sliding   | AMOSTE    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | ANTHOP    | ND    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |
|           |                |                        | CHRY5     | 20    | %     | WCD     | 15-DEC-95     | 600/44-82-020 |        |

ASARCO TECHNICAL SERVICES CENTER  
ANALYTICAL DATA REPORT

El Paso

Industrial Hygiene (OSHA) (Project 3211)

Batch No: L952744

| LAT NO    | DATE COLLECTED | DESCRIPTION         | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | NO. OF DAYS REPROD |
|-----------|----------------|---------------------|-----------|-------|-------|---------|---------------|--------------------|
| L952744-7 | 01-DEC-95      | HL-1 Belt 15 Siding | CROCID    | ND    | %     | WCD     | 15-DEC-95     | 600/M-82-020       |
|           |                |                     | TREN/ACT  | ND    | %     | WCD     | 15-DEC-95     | 600/M-82-020       |

ND = None Detected

Approved [Signature]  
Reviewer [Signature]



Sun  
City  
Analytical  
Inc.

January 04, 1996

Asarco Incorporated  
P.O. Box 1111  
El Paso, Texas 79999

ATTENTION: Peggy Munsell

RE: BULK SAMPLE RESULTS

| LAB NO#  | SAMPLE NUMBER        | DESCRIPTION     | MATRIX | FIBROUS                                    | ASBESTIFORM   |
|----------|----------------------|-----------------|--------|--------------------------------------------|---------------|
| B96-0009 | CONV-FLU-01 <i>A</i> | Yellow, Friable | Binder | Glass fibers 35-40%<br>Mineral wool 30-35% | None Detected |
| B96-0010 | CONV-FLU-02 <i>B</i> | Yellow, Friable | Binder | Glass fibers 30-35%<br>Mineral wool 40-45% | None Detected |
| B96-0011 | CONV-FLU-03 <i>C</i> | Yellow, Friable | Binder | Glass fibers 40-45%<br>Mineral wool 30-35% | None Detected |

*Adrian Gallardo*  
Adrian Gallardo  
MICROSCOPIST

*4 foot flue insulation  
Removed in converter Bldg*

Method: Polarized light microscopy with Dispersion staining using Olympus CH-2 Polarized Light Microscope with McCrone Dispersion Staining Objective. Standard error + 1-10% + 25%, 11-99 + 50% percentages based on visual volume procedure. EPA-600/H4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples".

All Microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill. Test report relates only to those items tested. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 1670.

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ASARCO ELP 0014995



Sun  
City  
Analytical  
Inc.

January 19, 1996

Asarco Incorporated  
P.O. Box 1111  
El Paso, Texas 79999

ATTENTION: Peggy Munsell

RE: ZINC PLANT

| LAB NO#  | SAMPLE NUMBER | DESCRIPTION         | MATRIX            | FIBROUS                      | ASBESTIFORM       |
|----------|---------------|---------------------|-------------------|------------------------------|-------------------|
| B96-0284 | #1            | Black, Non-friable  | Tar resins        | None Detected                | None Detected     |
|          |               |                     |                   | <i>Loose root insulation</i> |                   |
| B96-0285 | #1A           | Yellow, Non-friable | Quartz<br>Perlite | None Detected                | None Detected     |
| B96-0286 | #2            | Brown, Friable      | Calcium carbonate | Cellulose 5-10%              | Chrysotile 15-20% |
|          |               |                     |                   | <i>Transite Panels</i>       |                   |
| B96-0287 | #2A           | Black, Non-friable  | Tar resins        | Cellulose 2-5%               | Chrysotile 20-25% |

*ZN-12*

*Frank Lujan*

Frank Lujan  
MICROSCOPIST

Method: Polarized light microscopy with Dispersion staining using Olympus CH-2 Polarized Light Microscope with McCrone Dispersion Staining Objective. Standard error + 1-10% + 25%, 11-99 + 50% percentages based on visual volume procedure. EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples".

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ASARCO ELP 0014996