PLAINTIFF'S EXHIBIT

ASA-1514

Sun City Analytical Inc.

May 15, 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 |
|---|---|---|---|---|---|
| B96-1835 | CONV-03a | Black, Non-friable | Tar resins | Mineral wool trace<br>Cellulose trace | Chrysotile 7-12% |

Adrian Gallardo
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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Sun City Analytical Inc.

July 09, 1996

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

ATTENTION: Peggy Munsell RE: Industrial Hygiene

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-2573 | CONV-3 | Beige, Black Friable | Perlite | Glass fibers 15-20% | None Detected |
| B96-2574 | CONV-4 | White, Beige Friable | Calcium carbonate | Mineral wool 5-10% Glass fibers 10-15% | Chrysotile 10-15% |
| B96-2575 | CONV-5 | White, Black Friable | Polyvinyl resins Calcium carbonate | Mineral wool 5-10% Glass fibers 5-10% | Chrysotile 5-10% |
| B96-2576 | CONV-6 | White, Friable | Calcium carbonate | Mineral wool 10-15% Glass fibers 5-10% | None Detected |
| B96-2577 | CONV-7 | Tan, Friable | Calcium carbonate | Mineral wool 10-15% Glass fibers 15-20% Cellulose trace | None Detected |
| B96-2578 | CONV-8 | Black, Non-friable | Tar resins | Glass fibers 10-15% | Chrysotile 15-20% |
| B96-2579 | CONV-9 | Black, Gray Non-friable | Quartz Polyvinyl resins | Cellulose 10-15% | None Detected |

Manuel Morales
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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# ASARCO

**El Paso Plant**

Date: June 28, 1996
From: Industrial Hygiene
Peggy Munsell, Safety & Health Director
(915) 521-3640 Ex. 640
To: Sun City Analytical
Subject: Asbestos bulk samples

Please analyse the following samples:

| | |
|---|---|
| Conv-3 | Elbow |
| Conv-4 | Valve |
| Conv-5 | Duct |
| Conv-6 | Elbow |
| Conv-7 | Pipe |
| Conv-8 | Baghouse |
| Conv-9 | Baghouse |

PO#65-EX04138

# SURVEY WORKSHEET

Date_____ Owner_____ Project No. _____

Bldg. No. _____ & Name _____

Inspector No._____-_____-_____ & Name _____ 6/24

Location in Bldg. _____ Drawing Name _____

Summary _____

_____ Area Surveyed Sq. Ft. _____

| Ln # | Type Group | Descrip of Material Group Material Location | Smpl Fria | Quant. Found | Diff Fctr | Assesment Code Justification |
|---|---|---|---|---|---|---|
| 1 conv 3 | Therm Elbo | Converter SE - (1) conv 3 Elbo conv 4 valv | S (NS) F NF | SF LF Ea | (Easy) Med Hard | # 1 DDN A 1 P 1 |
| 2 | fan fan | conv 5 Duct conv 6 Elbow conv 7 PIPE running up bldg | S NS F NF | SF LF Ea | Easy Med Hard | # 1 DDN A 1 P 1 |
| 3 | 1st Level SE | conv 8 ~~mac~~ bashouse Wire conv-9 bashouse mastic-foam gloss | S (NS) F (NF) | SF LF Ea | Easy Med (Hard) | # 1 DDN A 1 P 1 |
| 4 | | | S NS F NF | SF LF Ea | Easy Med Hard | # D A P |
| 5 | | | S NS F NF | SF LF Ea | Easy Med Hard | # D A P |
| 6 | | | S NS F NF | SF LF Ea | Easy Med Hard | # D A P |

_____
Inspector's Signature

Sun City Analytical Inc.

August 14, 1996

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

ATTENTION: Peggy Munsell RE: VALVE

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-2881 | 9601-1AP | White Friable | Calcium carbonate | Mineral wool trace | Chrysotile 5-10% Amosite 15-20% |

for

Manuel Morales
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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Sun City Analytical Inc.

August 22, 1996

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

ATTENTION: Peggy Munsell RE: HIGH-LINE

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-2973 | HL-02 | Black, Yellow Non-friable | Tar resins | None Detected | Chrysotile 20-25% |
| B96-2974 | HL-03 | Black Non-friable | Tar resins | Cellulose 5-10% | Chrysotile 10-15% |

Priscilla Acuna
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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LABORATORY_____

# CHAIN OF CUSTODY

Sheet ___ of ___

| Sampler Name (Print): | Client: | Address (number & street): |
|---|---|---|
| Reg Munsell | ASARCO | 7301 W. Paisano |
| **Sampler Signature:** | **Project Name/No.:** | **City:** / **State:** / **Zip Code:** |
| RMunsell | HiGH-Line | El Paso / TX / 799 |

| Turn Around Time: (24 hrs) Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o |
|---|---|---|---|

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| HL-02 | 8/20/96 | Tar (heater duct) | | | | | | | | |
| HL-03 | " | Roofing (Tin shed) | | | | | | | | |
| | | | | | | | | | | |
| | | Please call results | | | | | | | | |
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| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |


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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00150021

Sun City Analytical Inc.

September 03, 1996

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

ATTENTION: Peggy Munsell RE: ASARCO

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTOS |
|---|---|---|---|---|---|
| 896-3089 | AP1-05 | Tan<br>Friable | Calcite | Mineral wool 10-15%<br>Glass fibers 15-20%<br>Cellulose 5-10% | None Detected<br>ND |
| 896-3090 | AP1-06 | Beige<br>Friable | Calcium carbonate | Mineral wool 5-10%<br>Glass fibers 10-15% | Chrysotile 30-35%<br>chy 30-35% |
| 896-3091 | AP1-07 | Tan<br>Friable | Calcite | Mineral wool 15-20%<br>Glass fibers 20-25%<br>Cellulose 10-15% | None Detected<br>ND |
| 896-3092 | AP1-08 | Brown, Tan<br>Friable | Calcium carbonate | Mineral wool 10-15%<br>Glass fibers 15-20%<br>Cellulose 1-5% | Chrysotile 35-40%<br>chy 35-40% |
| 896-3093 | AP1-09 | White<br>Friable | Binder<br>Calcite | Glass fibers 5-10%<br>Cellulose 15-20% | None Detected<br>ND |
| 896-3094 | AP1-10 | Brown, Gray<br>Friable | Calcium carbonate | Glass fibers 5-10%<br>Cellulose 10-15% | None Detected<br>ND |
| 896-3095 | AP1-11 | White, Gray<br>Friable | Calcium carbonate | Cellulose 1-5% | Amosite 30-35%<br>amy 30-35 |
| 896-3096 | AP1-12 | White, Gray<br>Friable | Calcium carbonate | Cellulose 5-10% | Amosite 30-40%<br>Amy 35-40 |
| 896-3097 | AP1-13 | White<br>Friable | Calcium carbonate | Cellulose 1-5% | Amosite 30-35%<br>Chrysotile 20-25%<br>amy 30-35<br>chry 20-25 |

Tommie Smith
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials," July 1993. Asbestos percentages are based on visual volume procedures and chart aides, corresponding to an approximate statistical error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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

ATTENTION: Peggy Munsell RE: ASARCO

| LAB NO: | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | NON-FIBROUS |
|---|---|---|---|---|---|
| B96-3098 | AP1-14 | Brown Friable | Binder | Cellulose 1-5% | Vermiculite 30-45% 40-45 |
| B96-3099 | AP1-15 | White Friable | Calcite | Cellulose 20-25% | None Detected ND |

Tomare Smith
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials," July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101879-0.

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Sun City Analytical Inc.

September 03, 1996

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

ATTENTION: Peggy Munsell RE: ASARCO

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTOS |
|---|---|---|---|---|---|
| 896-3131 | AP1-16 | Tan<br>Friable | Calcite | Mineral wool 10-15%<br>Glass fibers 25-30%<br>Cellulose 5-10% | None Detected<br>ND |
| 896-3132 | AP1-17 | White<br>Friable | Calcium carbonate | Cellulose 1-5% | Chrys: 15-20<br>Amos: 30-35 |
| 896-3133 | AP2-01 | Tan<br>Friable | Calcite | Mineral wool 10-15%<br>Glass fibers 15-20%<br>Cellulose 1-5% | None Detected<br>ND |
| 896-3134 | CONV-20 | Black<br>Non-friable | Tar resins | Glass fibers 5-10%<br>Cellulose 1-5% | Chrysotile 5-10%<br>chy 5-10 |
| 896-3135 | CONV-21 | Black, fellow<br>Friable | Tar resins | Glass fibers 15-20%<br>Cellulose 20-25% | None Detected<br>ND |
| 896-3136 | CONV-22 | Black<br>Non-friable | Tar resins | Glass fibers 5-10% | Chrysotile 10-15%<br>chy 10-15 |

Tonnie Smith
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples. EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials," July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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Sun City Analytical Inc.

September 03, 1996

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

ATTENTION: Peggy Munsell RE: ASARCO

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-3089 | AP1-05 | Tan<br>Friable | Calcite | Mineral wool 10-15%<br>Glass fibers 15-20%<br>Cellulose 5-10% | None Detected |
| B96-3090 | AP1-06 | Beige<br>Friable | Calcium carbonate | Mineral wool 5-10%<br>Glass fibers 10-15% | Chrysotile 30-35% |
| B96-3091 | AP1-07 | Tan<br>Friable | Calcite | Mineral wool 15-20%<br>Glass fibers 20-25%<br>Cellulose 10-15% | None Detected |
| B96-3092 | AP1-08 | Brown, Tan<br>Friable | Calcium carbonate | Mineral wool 10-15%<br>Glass fibers 15-20%<br>Cellulose 1-5% | Chrysotile 35-40% |
| B96-3093 | AP1-09 | White<br>Friable | Binder<br>Calcite | Glass fibers 5-10%<br>Cellulose 15-20% | None Detected |
| B96-3094 | AP1-10 | Brown, Gray<br>Friable | Calcium carbonate | Glass fibers 5-10%<br>Cellulose 10-15% | None Detected |
| B96-3095 | AP1-11 | White, Gray<br>Friable | Calcium carbonate | Cellulose 1-5% | Amosite 30-35% |
| B96-3096 | AP1-12 | White, Gray<br>Friable | Calcium carbonate | Cellulose 5-10% | Amosite 35-40% |
| B96-3097 | AP1-13 | White<br>Friable | Calcium carbonate | Cellulose 1-5% | Amosite 30-35%<br>Chrysotile 20-25% |

Tommie Smith
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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Sun City Analytical Inc.

September 03, 1996

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

ATTENTION: Peggy Munsell RE: ASARCO

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-3131 | AP1-16 | Tan<br>Friable | Calcite | Mineral wool 10-15%<br>Glass fibers 25-30%<br>Cellulose 5-10% | None Detected |
| B96-3132 | AP1-17 | White<br>Friable | Calcium carbonate | Cellulose 1-5% | Chyrsotile 15-20%<br>Amosite 30-35% |
| B96-3133 | AP2-01 | Tan<br>Friable | Calcite | Mineral wool 10-15%<br>Glass fibers 15-20%<br>Cellulose 1-5% | None Detected |
| B96-3134 | CONV-20 | Black<br>Non-friable | Tar resins | Glass fibers 5-10%<br>Cellulose 1-5% | Chrysotile 5-10% |
| B96-3135 | CONV-21 | Black, Yellow<br>Friable | Tar resins | Glass fibers 15-20%<br>Cellulose 20-25% | None Detected |
| B96-3136 | CONV-22 | Black<br>Non-friable | Tar resins | Glass fibers 5-10% | Chrysotile 10-15% |

Tommie Smith
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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El Paso, Texas 79999

ATTENTION: Peggy Hunsell RE: ASARCO

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-3098 | AP1-14 | Brown Friable | Binder | Cellulose 1-5% | Chrysotile 40-45% |
| B96-3099 | AP1-15 | White Friable | Calcite | Cellulose 20-25% | None Detected |

Tommie Smith
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABCRATORY _____

# CHAIN OF CUSTODY

Sheet 1 of 1

| | | |
|---|---|---|
| Sampler Name (Print): P Munsell | Client: ASARCO | Address (number & street): ~~7475 Dark~~ 2301 W. Paisano |
| Sampler Signature: P Munsell | Project Name/No.: | City: El Paso State: TX Zip Code: 79922 |

Turn Around Time: 24 hrs (Regular) Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: 541-1866 Yes X No o

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | SAMPLE TYPE & PRESERVATIVE | COMMENTS |
|---|---|---|---|---|
| Conv-19 a | ND | HF flue expansion JT (SO) | | |
| Conv-20 a | ND | HF dampers (SO) | | |
| Conv-21 a | 10/15 | HF Venturi flue (SO) | Black mastic | |
| Conv-22 a | ND | HF Venturi flue (NO) | | |
| Conv-23 a | ND | Screw level Boiler (West) | B/K porous insulation | |
| Conv-24 a | 20/25 | Screw level Boiler (West) | Green mastic cover | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |


Sun City Analytical Inc.

Corporate Offices
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(915) 533-8840
Fax(915) 533-8843

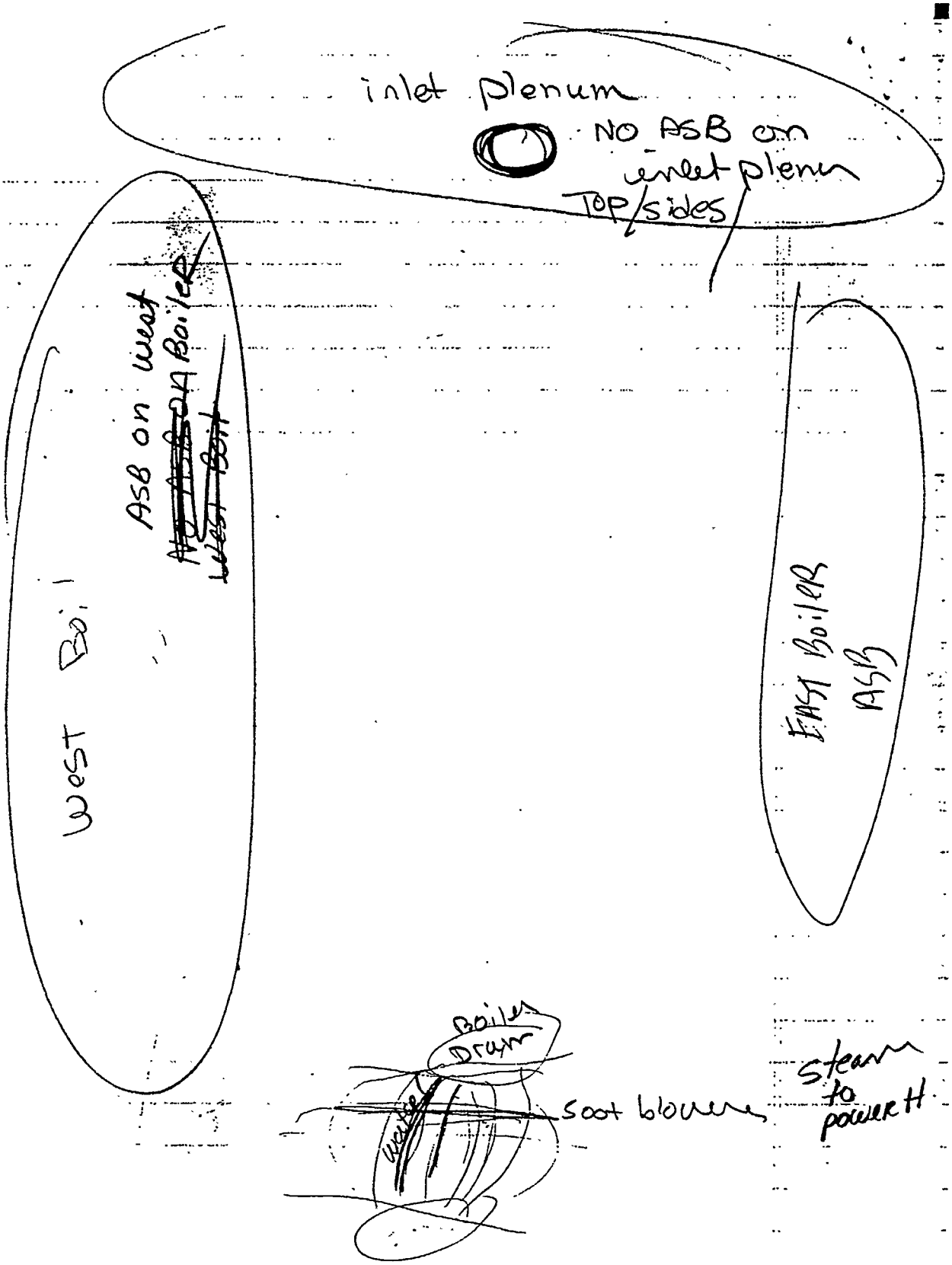
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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00150028


inlet plenum
NO ASB on inlet plenum TOP/sides
ASB on west Boiler
West Boi
East Boiler ASB
Boiler Drum
soot blowers
steam to power H

Sun City Analytical Inc.

September 10, 1996

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

ATTENTION: Peggy Munsell RE: ASARCO

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-3297 | CONV-19 a | Black<br>Non-friable | Tar resins | Glass fibers 1-5%<br>Cellulose 10-15% | None Detected |
| B96-3298 | CONV-20 b | Black, Tan<br>Non-friable | Tar resins<br>Binder | Mineral wool 1-5%<br>Glass fibers 10-15%<br>Cellulose 5-10% | None Detected |
| B96-3299 | CONV-21 a | Black, Brown<br>Non-friable | Tar resins<br>Binder | Glass fibers 5-10%<br>Cellulose 1-5% | Chrysotile 10-15% |
| B96-3300 | CONV-22 a | Black, Tan<br>Friable | Tar resins<br>Calcite | Glass fibers 1-5%<br>Cellulose 15-20% | None Detected |
| B96-3301 | CONV-23 a | Black<br>Non-friable | Quartz | Cellulose trace | None Detected |
| B96-3302 | CONV-24 a | Green, Yellow<br>Non-friable | Polyvinyl resins | Cellulose 15-20% | Chrysotile 20-25% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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LABORATORY_____

# CHAIN OF CUSTODY

Sheet ____ of ____

| Sampler Name (Print): Peg Munsell | Client: ASARCO | Address (number & street): 2301 W. Paisano |
|---|---|---|
| Sampler Signature: Peg Munsell | Project Name/No.: | City: El Paso State: TX Zip Code: 79922 |

Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes X No o

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | SAMPLE TYPE & PRESERVATIVE | COMMENTS |
|---|---|---|---|---|
| Conv 34 | 10/25 | Mastic Top flue - Waste heat Boiler | 15-20% | [redacted] |
| Conv 35 | | Mineral Wool | ND | |
| | | | | |
| | | Call Monday Morning | | |
| | | Peggy 521-[illegible]3640 | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |


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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00150031

Sun City Analytical Inc.

October 01, 1996

| Post-it® Fax Note 7671 | Date 10-1-96 | # of pages ▶ 3 |
|---|---|---|
| To Peggy Munsell | From LAB | |
| Co./Dept. ASARCO, Inc | Co. Sun City Analytical | |
| Phone # 521-3634 | Phone # 533-8843 | |
| Fax # 541-1811 | Fax # 533-8843 | |

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

ATTENTION: Peggy Munsell RE: Asbestos Bulk Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-3523 | AND-01 | Brown<br>Non-friable | Quartz<br>Tar resins | Cellulose trace | Chrysotile 2-5% |
| B96-3524 | AND-02 | Tan<br>Non-friable | Quartz<br>Tar resins | Cellulose 1-5% | None Detected |
| B96-3525 | AND-03 | White<br>Friable | Calcium carbonate<br>Vermiculite | Cellulose 1-5% | None Detected |
| B96-3526 | AND-04 | White<br>Friable | Calcium carbonate | Cellulose trace | Chrysotile 15-20% |
| B96-3527 | AND-05 | White<br>Friable | Binder | Mineral wool 15-20%<br>Glass fibers 50-55% | None Detected |
| B96-3528 | AND-06 | White<br>Friable | Calcium carbonate<br>Vermiculite | Cellulose 1-5% | None Detected |
| B96-3529 | AND-07 | White<br>Friable | Quartz<br>Gypsum | Cellulose trace | None Detected |
| B96-3530 | CONV-32 | Black, Yellow<br>Non-friable | Tar resins | Mineral wool 1-5%<br>Glass fibers 10-15%<br>Cellulose 15-20% | None Detected |
| B96-3531 | CONV-33 | Beige<br>Friable | Calcium carbonate<br>Perlite | Mineral wool 1-5%<br>Glass fibers 15-20%<br>Cellulose 1-5% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials," July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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

ATTENTION: Peggy Munsell RE: Asbestos Bulk Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-3532 | CONV-25 | Black, Silver Non-friable | Tar resins | Glass fibers 10-15% Cellulose 10-15% | None Detected |
| B96-3533 | CONV-19b | Black, Silver Non-friable | Tar resins | Glass fibers 10-15% Cellulose 15-20% | None Detected |
| B96-3534 | CONV-26 | Black, Brown Non-friable | Tar resins | Glass fibers 10-15% Cellulose 15-20% | None Detected |
| B96-3535 | CONV-20b | Black, Beige Non-friable | Tar resins | Mineral wool 1-5% Glass fibers 15-20% Cellulose 10-15% | None Detected |
| B96-3536 | CONV-21b | Black, Beige Non-friable | Tar resins | Glass fibers 5-10% Cellulose 10-15% | Chrysotile 2-5% |
| B96-3537 | CONV-27 | Black, Yellow Non-friable | Tar resins | Mineral wool 1-5% Glass fibers 10-15% Cellulose 20-25% | None Detected |
| B96-3538 | CONV-28 | Black, Silver Non-friable | Tar resins | Glass fibers 10-15% Cellulose 10-15% | None Detected |
| B96-3539 | CONV-22b | Black, Beige Non-friable | Tar resins | Glass fibers 10-15% Cellulose 15-20% | Chrysotile 2-5% |
| B96-3540 | CONV-29 | Black, Yellow Non-friable | Tar resins | Mineral wool 1-5% Glass fibers 10-15% Cellulose 5-10% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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

ATTENTION: Peggy Munsell RE: Asbestos Bulk Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-3541 | CONV-30 | Black, Brown Non-friable | Tar resins | Mineral wool 1-5%<br>Glass fibers 5-10%<br>Cellulose 15-20% | None Detected |
| B96-3542 | CONV-31 | Black, Silver Non-friable | Tar resins | Mineral wool 5-10%<br>Glass fibers 5-10%<br>Cellulose 10-15% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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Sun City Analytical Inc.

| Post-it® Fax Note 7671 | Date 10-8-96 | # of pages ▶ 1 |
|---|---|---|
| To Peggy Munsell | From LAB | |
| Co./Dept. ASARCO, Inc | Co. Sun City Analytical | |
| Phone # 521-3034 | Phone # 533-8844 | |
| Fax # 541-1811 | Fax # 533-8843 | |

October 08, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| 396-3629 | WH-02 | Beige<br>Non-friable | Binder | Cellulose 1-5% | Chrysotile 30-35%<br>9616289 |
| 396-3630 | 1-9 | Beige<br>Friable | Calcium carbonate<br>Diatoms | Mineral Wool 1-5%<br>Glass fibers 5-10%<br>Cellulose 1-5% | Chrysotile 10-15% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials," July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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(915) 362-9887

Sun City Analytical Inc.

| Post-it® Fax Note 7671 | Date | # of pages ▶ |
|---|---|---|
| To PEGGY MUNSELL | From LAB | |
| Co./Dept. ASARCO | Co. SUN CITY ANALYTICAL | |
| Phone # 521-3634 | Phone # 533-8540 | |
| Fax # 541-1811 | Fax # 533-8543 | |

October 29, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| 896-4001 | CONV 34 | Black Non-friable | Tar resins | Mineral wool trace Glass fibers 1-3% Cellulose 1-5% | Chrysotile 15-20% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials,' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

Sun City Analytical Inc.

| Post-it® Fax Note 7671 | Date | # of pages ▶ |
|---|---|---|
| To PEGGY MUNSELL | From LAB | |
| Co./Dept. ASARCO | Co. SUN CITY ANALYTICAL | |
| Phone # 521-3634 | Phone # 533-8540 | |
| Fax # 541-1811 | Fax # 533-8543 | |

October 29, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4002 | CONV 3S | Tan Friable | Binder | Mineral wool 20-25% Glass fibers 20-25% | None Detected |

Rosaiva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials," July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101676-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 1 of 2

| Sampler Name (Print): | Client: | Address (number & street): |
|---|---|---|
| Peg Munsell | ASARCO | 2301 W. Paisano |
| **Sampler Signature:** | **Project Name/No.:** | **City:** / **State:** / **Zip Code:** |
| PMunsell | | El Paso TX 79922 |

| Turn Around Time: | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: |
|---|---|---|---|
| 24 hrs (Regular) Other_____ | | | Yes X No o |

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | SAMPLE TYPE & PRESERVATIVE | COMMENTS |
|---|---|---|---|---|
| API-05 | 8/26/96 | Heat exchanger 2A | SOIL | ND |
| API-06 | " | Elbow | | Chy 30-35% |
| API-07 | " | Heat exchanger #1 | | ND |
| API-08 | " | Heat exchanger #4B | | Chy 35-40% |
| API-09 | " | Heat exchanger #4A | | ND |
| API-10 | " | Heat exchanger #C | | ND |
| API-11 | " | Elbow shower pipe close to cooling tower | | Amy 30-35 |
| API-12 | " | Insulation shower pipe " | | Amy 35-40 |
| API-13 | " | Pipe Insulation (2nd level) | | Amy 30-35 / Chry 20-25 |
| API-14 | " | ASB cloth | | Chy 40-45 |
| API-15 | " | Pipe next to AP#1 office | | ND |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |


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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00150038

LABORATORY_____

# CHAIN OF CUSTODY

Sheet 2 of 2

| Sampler Name (Print): | Client: ASARCO | Address (number & street): |
|---|---|---|
| Sampler Signature: | Project Name/No.: | City: State: Zip Code: |

| Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o |
|---|---|---|---|

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| AP1 - 16 | 8/26 | flue out of converter | | | | | | | | ND |
| AP1 - 17 | | Converter roofing INSulation | | | | | | | | 15-20 Chys 30-35 Amy |
| | | | | | | | | | | |
| AP2 - 01 | | Converter mud (under nails) | | | | | | | | ND |
| | | | | | | | | | | |
| Conv - 20 | | Converter Hot Gas Fan Flue | | | | | | | | 5-10 Chys |
| Conv - 21 | | Converter HGF (upper) | | | | | | | | ND |
| Conv - 22 | | Converter HGF (lower) | | | | | | | | 10-15 Chys |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |


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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00015039

Sun City Analytical Inc.

October 30, 1996

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

ATTENTION: Peggy Munsell RE: RCC flue staging area

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4078 | RCC-01 | White<br>Friable | Gypsum<br>Calcium carbonate | Cellulose 5-10% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials,' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 1 of 1

| Sampler Name (Print): P Munsell | Client: ASARCO | Address (number & street): PO Box 1111 |
|---|---|---|
| Sampler Signature: P Munsell | Project Name/No.: | City: El Paso State: TX Zip Code: 79999 |

Turn Around Time: (24 hrs) Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: (Yes) No

541-1811

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | COMMENTS |
|---|---|---|---|
| LD-11 | 12/13 | Dross Reverb stack mul insulation | |
| | | | |
| PH-44 | | 6" Boiler feed water line > above #2 forced Air fan | |
| PH-45 | | 4" Boiler feed water line / West side | |
| | | | |
| | | | |
| | | | |
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| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |


Sun City Analytical Inc.

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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 0015041

Sun City Analytical Inc.

November 04, 1996

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

ATTENTION: Peggy Munsell RE: Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4083 | CTT-02 | Black<br>Non-friable | Quartz<br>Tar resins | Cellulose 1-3% | Chrysotile 2-7% |
| B96-4084 | CTT-03 | White, Black<br>Friable | Calcium carbonate | Mineral wool 1-5%<br>Glass fibers 2-7%<br>Cellulose 1-5% | None Detected |
| B96-4085 | CTT-04 | Black<br>Friable | Quartz<br>Tar resins | Glass fibers 5-10%<br>Cellulose trace | Chrysotile 5-10% |
| B96-4086 | CTT-05 | Gray, Yellow<br>Non-friable | Quartz<br>Tar resins | Mineral wool 1-5%<br>Glass fibers 5-10%<br>Cellulose 1-5% | Chrysotile 2-7% |
| B96-4087 | CTT-06 | Gray<br>Non-friable | Binder<br>Calcium carbonate | Mineral wool 1-5%<br>Glass fibers 10-15%<br>Cellulose 1-3% | Chrysotile 5-10% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 2 of 2

| Sampler Name (Print): P Munsell | Client: ASARCO | Address (number & street): |
|---|---|---|
| Sampler Signature: P Munsell | Project Name/No.: | City: State: Zip Code: |

Turn Around Time: 24 hrs Regular Other_____

ANALYSES REQUIRED

SAMPLE TYPE & PRESERVATIVE

Fax: Yes X No o

| SAMPLE ID # | DATE (96) | LOCATION/DESCRIPTION | SAMPLE TYPE & PRESERVATIVE | COMMENTS |
|---|---|---|---|---|
| C-1 | 11/4 | outside - NORTH | 510 min | 2.93 L/min |
| B-1 | 11/4 | outside - WEST | 390 min | 2.93 L/min |
| P-1 | 11/4 | inside - EAST | 508 min | 2.90 L/min |
| Q-1 | 11/4 | inside - NORTH | 506 min | 2.97 L/min |
| Z-1 | 11/4 | inside - South | 514 min | 2.94 L/min |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00150 43

Sun City Analytical Inc.

November 06, 1996

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

ATTENTION: Peggy Munsell ASARCO

The following samples were analyzed for Airborne Asbestos using the NIOSH 7400 Method

| LAB NO. | SAMPLE NUMBER | DESCRIPTION | TIME | FLOWRATE | VOLUME | FIBER/CC |
|---|---|---|---|---|---|---|
| A96-2736 | C-1 | OUTSIDE - NORTH | 510 | 2.93 | 1494.3 | <.005 |
| A96-2737 | B-1 | OUTSIDE - WEST | 390 | 2.93 | 1142.7 | .01 |
| A96-2738 | P-1 | INSIDE - EAST | 508 | 2.90 | 1473.2 | .01 |
| A96-2739 | Q-1 | INSIDE - NORTH | 506 | 2.97 | 1502.8 | .01 |
| A96-2740 | Z-1 | INSIDE - SOUTH | 514 | 2.94 | 1511.2 | .009 |

Priscilla Acuna
MICROSCOPIST

Method Used: NIOSH 7400, Issue 2, Phase Contrast Microscopy Method; with a determined LOD of <0.01 fibers/cc for environments relatively free of interferences. All microscopists are successful participants in the AIHA Proficiency Analytical Testing (PAT) Program ID 10756 and graduates of NIOSH 582 EPA approved course. Member of Environmental Information Association, Member of American Industrial Hygiene Association.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 2 of 2

| S: | Client: ASARCO | Address (number & street): |
|---|---|---|
| Sampler Signature: | Project Name/No.: | City: State: Zip Code: |

| Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o |
|---|---|---|---|

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | ASBESTOS Bulk Sample | COMMENTS |
|---|---|---|---|---|
| AND-01 | 9/5 | Yellow floor tile 12x12 Chavez office | | 2-5% chrys |
| AND-02 | | Tan floor tile 12x12 Airide Trailer | | ND |
| AND-03 | | PIPE Gas Reformer Tank - upper level | | ND |
| AND-04 | | PIPE Elbow 90. Airide across Chavez office | | 15-20% Chrys |
| AND-05 | | cloth wrap (PIPE) upper level | | ND |
| AND-06 | | PIPE Mud INsulation upper level | | ND |
| | | | | |
| Elec-07 | 9/13 | Wall Plaster (next to garage door) | | ND |
| | | | | |
| Conv-32 | | Expansion JT (NO) | | ND |
| Conv-33 | | Elbow (90.) across from water cooler | | ND |

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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 0015045

Sun City Analytical Inc.

November 06, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Sample-Mud

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4132 | CONV-36 a | Gray, Black Friable | Calcium carbonate | Mineral wool 5-10% Glass fibers 5-10% Cellulose 10-15% | Chrysotile 2-4% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 2 of 2

| Sampler Name (Print): P Munsell | Client: ASARCO | Address (number & street): PO Box 1111 |
|---|---|---|
| Sampler Signature: P Munsell | Project Name/No.: | City: El Paso State: TX Zip Code: 79999 |

Turn Around Time: (24 hrs) Regular Other_____

ANALYSES REQUIRED

SAMPLE TYPE & PRESERVATIVE

Fax: Yes o No o

| SAMPLE ID # | DATE | Please Call results 521-3640 LOCATION/DESCRIPTION | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| conv 37 | 11/6 | Boiler By Pass flue (mastic/wire/mineral wool) | | | | | | | | |
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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00150047

Sun City Analytical Inc.

November 07, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Sample

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4154 | CONV-37 b | Black, Yellow<br>Non-friable | Quartz<br>Tar resins | Mineral wool 5-10%<br>Glass fibers 10-15%<br>Cellulose trace | Chrysotile 10-15% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 1 of 2

| Sampler Name (Print): Peggy A. Munsell | Client: ASARCO | Address (number & street): 2301 W. Paisano |
|---|---|---|
| Sampler Signature: Peggy Munsell | Project Name/No.: Converter | City: El Paso State: TX Zip Code: 79922 |

Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | COMMENTS |
|---|---|---|---|
| conv 24 b | 12/2/96 | Grey covering over foam Glass | 1st Level - West screw (East side) |
| conv 36 b | | Elbow by PH shed | |
| conv 37 b | | Elbow by PH shed | |
| conv 38 | | Elbow by fan PH side | |
| conv 39 | | Elbow - 1st level - west screw (west side) | |
| conv 40 | | Black mastic over foam Glass | 14" duct 1st level North screw |
| conv 41 | | Black mastic coving fiberglass | 4" pipe 1st level East screw (west side) |
| conv 42 | | cloth wrap - Elbow 1st level East screw next to stair well | |
| conv 43 | | cloth wrap - West Boiler 2nd level - East side | |
| conv 44 | | mastic/mud 12" Pipe wrap upper level maintenance bench area | |
| | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
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ASARCO ELP 0015049

LABORATORY_____

# CHAIN OF CUSTODY

Sheet 2 of 2

| Sampler Name (Print): | Client: | Address (number & street): |
|---|---|---|
| teg Munsell | ASARCO | |
| **Sampler Signature:** | **Project Name/No.:** | **City:** **State:** **Zip Code:** |
| Munsell | Converter | |

| Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o |
|---|---|---|---|

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| Conv 45 A | 12/2 | 6" pipe outter Insulation (PRC | S sign) | | Stairs | up | fr | m maintenance bench | | |
| Conv 45 B | | 6" pipe inner Insulation | " | | " | | | " | | " |
| Conv 46 | | 14" pipe flue level next | to | Conv | 3 | Sample | PORT | | | |
| Conv 47 | | Valve flue level next to | Conv | 1 | (far side - next to Bldg) | | | | | |
| Conv 48 | | Valve outside entrance Conv | 3 | root | line | by | PH | | | |
| | | | | | | | | | | |
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| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 0015050

Sun City Analytical Inc.

November 07, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4152 | API-8A | Brown<br>Non-friable | Quartz | Cellulose trace | Chrysotile 5-10% |
| B96-4153 | API-8B | Beige<br>Friable | Calcium carbonate | Mineral wool 5-10%<br>Glass fibers 5-10%<br>Cellulose 1-3% | Chrysotile 2-5% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 1 of 1

| Sampler Name (Print): P Munsell | Client: ASARCO | Address (number & street): 2301 W. Paisano |
|---|---|---|
| Sampler Signature: P Munsell | Project Name/No.: | City: El Paso State: Zip Code: |

Turn Around Time: 24 hrs (Regular) Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: (Yes) No

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | HI | | | | | | | |
| PH-46 | 12/19 | feed water line behind Dr | boiler | Room | | | | | | |
| | | | | | | | | | | |
| SM-01 | | INSulation - ceiling Sample | mill | | | | | | | |
| SM-02 | | board - ceiling Sample | mill | | | | | | | |
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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 00150052

Sun City Analytical Inc.

December 11, 1996

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

ATTENTION: Peggy Munsell RE: Cottrell

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4462 | CTT-10A | Brown<br>Friable | Calcium carbonate | Cellulose 5-10% | Chrysotile 3-8% |
| B96-4463 | CTT-10B | Black<br>Non-friable | Tar resins | Cellulose 1-5% | Chrysotile 15-20% |
| B96-4464 | CTT-11 | Black<br>Non-friable | Tar resins | Mineral wool 1-5%<br>Glass fibers 5-10%<br>Cellulose 1-5% | Chrysotile 5-10% |
| B96-4465 | CTT-12 | Black<br>Friable | Binder | Mineral wool 10-15%<br>Glass fibers 10-15%<br>Cellulose 1-5% | None Detected |
| B96-4466 | CTT-13 | Gray, Beige<br>Non-friable | Quartz<br>Calcium carbonate | Cellulose trace | None Detected |
| B96-4467 | CTT-14 | Black, Beige<br>Non-friable | Binder<br>Tar resins | Mineral wool 5-10%<br>Glass fibers 10-15%<br>Cellulose 1-5% | Chrysotile 10-15% |
| B96-4468 | CTT-15 | Black, Yellow<br>Friable | Tar resins | Cellulose 1-5% | Chrysotile 5-10% |
| B96-4469 | CTT-16 | Black, Gray<br>Non-friable | Quartz<br>Tar resins<br>Calcium carbonate | Glass fibers 5-10%<br>Cellulose 1-5% | None Detected |
| B96-4470 | CTT-17 | Black, Gray<br>Non-friable | Quartz<br>Tar resins<br>Calcium carbonate | Glass fibers 1-5%<br>Cellulose 10-15% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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Fax (915) 367-6904

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

ATTENTION: Peggy Munsell RE: Cottrell

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4471 | CTT-18 | Black, Yellow<br>Non-friable | Quartz<br>Tar resins | Mineral wool 1-5%<br>Glass fibers 5-10%<br>Cellulose 1-5% | Chrysotile 10-15% |
| B96-4472 | CTT-19 | Gray<br>Friable | Calcium carbonate | Mineral wool 1-5%<br>Glass fibers 1-5%<br>Cellulose 15-20% | None Detected |
| B96-4473 | CTT-20 | Black<br>Non-friable | Quartz<br>Tar resins | Cellulose 1-5% | Chrysotile 15-20% |
| B96-4474 | CTT-21 | Black<br>Non-friable | Tar resins | Glass fibers 30-35%<br>Cellulose 1-5% | Chrysotile 20-25% |
| B96-4475 | CTT-22 | Black<br>Friable | Tar resins | Glass fibers 1-5%<br>Cellulose 25-30% | None Detected |
| B96-4476 | CTT-23 | Black, Gray<br>Friable | Quartz<br>Tar resins<br>Calcium carbonate | Cellulose 5-10% | Chrysotile 10-15% |
| B96-4477 | CTT-24 | Black, Gray<br>Friable | Tar resins<br>Calcium carbonate | Glass fibers 10-15%<br>Cellulose 5-10% | None Detected |
| B96-4478 | CTT-25 | Black<br>Non-friable | Quartz<br>Tar resins | Cellulose 1-5% | Chrysotile 20-25% |
| B96-4479 | CTT-26 | Black, Gray<br>Friable | Tar resins<br>Calcium carbonte | Glass fibers 10-15%<br>Cellulose 5-10% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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P.O. Box 1111
El Paso, Texas 79999

ATTENTION: Peggy Munsell RE: Cottrell

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4480 | CTT-27 | Black, Yellow<br>Non-friable | Quartz<br>Tar resins | Cellulose 30-35% | Chrysotile 15-20% |
| B96-4481 | CTT-28 | Black, Yellow<br>Non-friable | Tar resins | Mineral wool 10-15%<br>Glass fibers 10-15% | None Detected |
| B96-4482 | CTT-29 | Black, Yellow<br>Friable | Quartz<br>Tar resins | Glass fibers 10-15%<br>Celulose 20-25% | Chrysotile 5-10% |
| B96-4483 | CTT-30 | Black, Yellow<br>Friable | Quartz<br>Tar resins | Glass fibers 10-15%<br>Celulose 25-30% | Chrysotile 5-10% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet ____ of ____

| Sampler Name (Print): | Client: | Address (number & street): |
|---|---|---|
| Peg Munsell | ASARCO | 2301 W. Paisano |
| **Sampler Signature:** Munsell | **Project Name/No.:** | **City:** El Paso **State:** TX **Zip Code:** |

**Turn Around Time:** 24 hrs (Regular) Other_____ | **ANALYSES REQUIRED** | **SAMPLE TYPE & PRESERVATIVE** | **Fax:** Yes ✓ No o

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | SAMPLE TYPE & PRESERVATIVE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CTT-02 | 10/29/96 | Inlet distribution flue | mastic | | | | | | | (cont) gel | |
| CTT-03 | | Inlet distribution flue | mud | | | | | | | (cont. gel | |
| CTT-04 | | Outlet distribution flue | mastic — outside office | | | | | | | | by ladder |
| CTT-05 | | outlet distribution flue | mastic /wire/w fiberglass | | | | | | | | outside office |
| CTT-06 | | Cloth/mud outside office | | | | | | | | | |
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ASARCO ELP 0015063

Sun City Analytical Inc.

December 11, 1996

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

ATTENTION: Peggy Munsell RE: Converter

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4484 | CONV 24b | Gray<br>Non-friable | Quartz<br>Calcium carbonate | Mineral wool 5-10%<br>Glass fibers 10-15%<br>Cellulose 20-25% | Chrysotile 10-15% |
| B96-4485 | CONV 36 b | Beige<br>Friable | Quartz<br>Perlite | Glass fibers 1-5%<br>Cellulose trace | None Detected |
| B96-4486 | CONV 37 b | Gray<br>Friable | Quartz<br>Calcium carbonate | Mineral wool 10-15%<br>Glass fibers 5-10%<br>Cellulose 1-5% | None Detected |
| B96-4487 | CONV 38 | Gray<br>Friable | Quartz<br>Calcium carbonate | Mineral wool 10-15%<br>Glass fibers 5-10%<br>Cellulose 10-15% | None Detected |
| B96-4488 | CONV 39 | Green<br>Friable | Quartz<br>Calcium carbonate | Mineral wool 5-10%<br>Glass fibers 5-10%<br>Cellulose 1-5% | None Detected |
| B96-4489 | CONV 40 | Black<br>Non-friable | Quartz<br>Polyvinyl resins | Cellulose 30-35% | Chrysotile 2-5% |
| B96-4490 | CONV 41 | Black<br>Non-friable | Quartz<br>Polyvinyl resins | Cellulose 20-25% | Chrysotile 2-5% |
| B96-4491 | CONV 42 | Gray<br>Non-friable | Quartz<br>Polyvinyl resins | Glass fibers 5-10%<br>Cellulose 20-25% | None Detected |
| B96-4492 | CONV 43 | Gray, Brown<br>Non-friable | Quartz<br>Binder | Cellulose 15-20% | Chrysotile 5-10% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


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P.O. Box 1111
El Paso, Texas 79999

ATTENTION: Peggy Munsell RE: Converter

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4493 | CONV 44 | Gray<br>Friable | Calcium carbonate | Mineral wool 5-10%<br>Glass fibers 10-15%<br>Cellulose 1-3% | Chrysotile 5-10% |
| B96-4494 | CONV 45A | White<br>Friable | Calcium carbonate | Glass fibers 1-3%<br>Cellulose 5-10% | None Detected |
| B96-4495 | CONV 45B | White<br>Friable | Calcium carbonate | Glass fibers 1-3%<br>Cellulose 1-5% | None Detected |
| B96-4496 | CONV 46 | Beige<br>Friable | Quartz<br>Perlite | Glass fibers 15-20%<br>Cellulose trace | None Detected |
| B96-4497 | CONV 47 | Tan<br>Friable | Quartz<br>Calcium carbonate | Glass fibers 10-15%<br>Cellulose 1-5% | Chrysotile 3-8% |
| B96-4498 | CONV 48 | Black<br>Non-friable | Calcium carbonate<br>Binder | Glass fibers 10-15%<br>Cellulose 1-3% | Chrysotile 2-7% |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 1 of 1

| Sampler Name (Print): P Munsell | Client: ASARCO | Address (number & street): PO Box 1111 |
|---|---|---|
| Sampler Signature: Peggy D Munsell | Project Name/No.: | City: El Paso State: TX Zip Code: 79999 |

Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes ○ No ○

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | SAMPLE TYPE & PRESERVATIVE | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| LD-12 | 12/19 | Dross Reverb stack mud | | | | | | | | |
| LD-13 | | | | | | | | | | |
| LD-14 | | | | | | | | | | |
| LD-15 | | | | | | | | | | |
| LD-16 | | | | | | | | | | |
| LD-17 | | | | | | | | | | |
| API-HE | 12/19 | Heat Exchanger (Acid Storage) | | | | | | | | |
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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 0015066

Sun City Analytical Inc.

December 17, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| 896-4608 | LD-11 | White, Gray<br>Friable | Binder<br>Calcium carbonate | Mineral wool 5-10%<br>Glass fibers 10-15%<br>Cellulose 10-15% | None Detected |
| 896-4609 | PH-44 | Beige<br>Friable | Quartz<br>Binder | Mineral wool 10-15%<br>Glass fibers 10-15%<br>Cellulose 1-5% | None Detected |
| 896-4610 | PH-45 | White<br>Friable | Quartz<br>Perlite | Glass fibers 20-25% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials." July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet 1 of 2

| Sampler Name (Print): | Client: | Address (number & street): |
|---|---|---|
| Peggy A. Munsell | ASARCO | 2301 W. Paisano |
| **Sampler Signature:** | **Project Name/No.:** | **City:** / **State:** / **Zip Code:** |
| P Munsell | Cottrell | El Paso TX 79922 |

| Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o |
|---|---|---|---|

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | COMMENTS |
|---|---|---|---|
| CTT-10A | 12/21/96 | Reverb cottrell mud (North Side) | RVB |
| CTT-10B | | Reverb cottrell mastic (North Side) | RVB |
| CTT-11 | | Black mastic outlet distribution flue (converter) (So side) | ConV |
| CTT-12 | | Black mastic " " " " " | ConV |
| CTT-13 | | Refractory cement Reverb cottrell North side of hangers | RVB |
| CTT-14 | | Black/paper back Tar paper like material Reverb cott. (west side) | RVB |
| CTT-15 | | Black mastic outlet distribution flue (converter) So. side | ConV |
| CTT-16 | | Black mastic/mud converter cottrell (East side) | ConV |
| CTT-17 | | Black mastic/mud " " " | ConV |
| CTT-18 | | Black mastic " " " | ConV |
| CTT-19 | | Elbow - Air dryer Reverb cottrell (West side) | RVB |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
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| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
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ASARCO ELP 0015068

LABORATORY_____

# CHAIN OF CUSTODY

Sheet 3 of 4

| Sampler Name (Print): Peg Munsell | Client: ASARCO | Address (number & street): |
|---|---|---|
| Sampler Signature: Peg Munsell | Project Name/No.: | City: State: Zip Code: |

Turn Around Time: 24 hrs Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| CTT-20 | 12/2 | Hopper - Reverb cott. - west side | | | | | | | | RVB |
| CTT-21 | | Black Tar like material - Reverb Cottrell - west side | | | | | | | | RVB |
| CTT-22 | | Black TAR like material | " | | | " | | " | | RVB |
| CTT-23 | | Black mastic/mud converter | cottrell - East side | | | | | | | conv |
| CTT-24 | | Black mastic/mud " | | " | | | | " | | conv |
| CTT-25 | | Hopper - Converter cott. East side | | | | | | | | conv |
| CTT-26 | | mastic/mud converter cott. | | South side | | | | | | conv |
| CTT-~~25~~27 | | Canvas/mastic Reverb cott. | | South side | | | | | | RVB |
| CTT-28 | | Black mastic Reverb cott | | South side | | | | | | RVB |
| CTT-29 | | mastic - Rooster (comtop) cottrell | | West side | | | | | | RST |
| CTT-30 | | mastic - Rooster " " | | | | " | | | | RST |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
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| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
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ASARCO ELP 0015069

Sun City Analytical Inc.

December 20, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4692 | PH-46 | White<br>Friable | Calcium carbonate | Cellulose 15-20% | None Detected |
| B96-4693 | SM-01 | Brown<br>Friable | Binder | Mineral wool 20-25%<br>Glass fibers 25-30%<br>Cellulose 1-5% | None Detected |
| B96-4694 | SM-02 | Light brown<br>Friable | Binder | Cellulose 60-65% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 'Interim Method for the Determination of Asbestos in Bulk Insulation Samples;' EPA/600/R-93/116 'Method for the Determination of Asbestos in Bulk Building Materials, ' July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's 'Microscopical Identification of Asbestos', Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.

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LABORATORY_____

# CHAIN OF CUSTODY

Sheet ___ of ___

| Sampler Name (Print): Reg. Munsell | Client: ASARCO | Address (number & street): 2301 W. Paisano |
|---|---|---|
| Sampler Signature: RMunsell | Project Name/No.: | City: El Paso State: Zip Code: |

| Turn Around Time: (24 hrs) Regular Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes o No o |
|---|---|---|---|

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| RCC-01 | 10/29 | 2x2 strips white CaSiO4 RCC Flue staging area | | | | | | | | |
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| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|


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Fax (915) 367-6904


WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 0015071

Sun City Analytical Inc.

December 26, 1996

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

ATTENTION: Peggy Munsell RE: Bulk Asbestos Samples

| LAB NO# | SAMPLE NUMBER | DESCRIPTION | MATRIX | FIBROUS | ASBESTIFORM |
|---|---|---|---|---|---|
| B96-4696 | LD-12 | Beige Friable | Calcium carbonate | Mineral wool 5-10% Glass fibers 10-15% Cellulose 1-5% | None Detected |
| B96-4697 | LD-13 | Gray Friable | Calcium carbonate | Mineral wool 10-15% Glass fibers 10-15% Cellulose 1-3% | None Detected |
| B96-4698 | LD-14 | Beige Friable | Calcium carbonate | Mineral wool 5-10% Glass fibers 10-15% Cellulose 5-10% | None Detected |
| B96-4699 | LD-15 | Beige Friable | Calcium carbonate | Mineral wool 5-10% Glass fibers 15-20% Cellulose 1-5% | None Detected |
| B96-4700 | LD-16 | Beige Friable | Calcium carbonate | Mineral wool 5-10% Glass fibers 5-10% Cellulose 1-3% | None Detected |
| B96-4701 | LD-17 | Beige Friable | Calcium carbonate | Mineral wool 5-10% Glass fibers 10-15% Cellulose 1-5% | None Detected |
| B96-4702 | AP1-HE | Beige Friable | Calcium carbonate | Mineral wool 1-5% Glass fibers 10-15% Cellulose 1-3% | None Detected |

Rosalva Gomez
MICROSCOPIST

Method: EPA-600/M4-82-020 "Interim Method for the Determination of Asbestos in Bulk Insulation Samples;" EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials, " July 1993. Assigned percentages are based on visual volume procedures and chart aides, corresponding to an approximate standard error of + or - 5% for (1-10% range) and + or - 10% for (11-90% range). All microscopists are graduates of McCrone Research Institute's "Microscopical Identification of Asbestos", Chicago, Ill or equivalent. National Voluntary Laboratory Accreditation Program (NVLAP) Lab ID 101870-0.


Corporate Offices
1409 Montana Avenue
El Paso, Texas 79902
(915) 533-8840
Fax (915) 533-8843

516 Chama N.E. Suite D
Albuquerque, New Mexico 87108
(505) 255-4673
Fax (505) 255-0989

11361 N. 99th Ave.
Suite 101
Peoria, Arizona 85345
(602) 933-4956
Fax (602) 933-4836

2817 John Ben Shepard Pkwy
Building A, Suite 201
Odessa, Texas 79762
(915) 362-9887
Fax (915) 367-6904

LABORATORY_____

# CHAIN OF CUSTODY

Sheet ___ of ___

| Sampler Name (Print): Peg Mundell | Client: ASARCO | Address (number & street): PO Box 1111 |
|---|---|---|
| Sampler Signature: P Mundell | Project Name/No.: | City: El Paso State: TX Zip Code: 79999 |

Turn Around Time: 24 hrs (Regular) Other_____ | ANALYSES REQUIRED | SAMPLE TYPE & PRESERVATIVE | Fax: Yes X No o

| SAMPLE ID # | DATE | LOCATION/DESCRIPTION | | | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| API-8 a | 11/6 | Heat exchanger #4b annular/wire | | | | | | | | | |
| API-8 b | | Heat exchanger #4b mud | | | | | | | | | |
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| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Relinquished By: | Date | Time | Received By: | Date: | Time: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |

| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Phone No: | Fax No. | Contact Person: |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |


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WHITE - LAB YELLOW - FILE PINK - CLIENT

ASARCO ELP 0015073

ASARCO

January 14, 1997

Attached are the analytical results for the Dross Reverb Stack sample collected on December 20, 1996 at the El Paso plant.

The sample was handled and analyzed in accordance with EPA's Toxic Characteristic Leach Procedure, (TCLP).

The sample was received by the laboratory on December 31, 1996.

ASARCO Incorporated 3422 South 700 West. Salt Lake City, Utah 84119-4191 (801) 262-2459 FAX (801) 261-2194

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: L962614

| LAB NO. | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DATE | METHOD |
|---|---|---|---|---|---|---|---|---|---|
| L962614-1 | 20-DEC-96 | ~~BROSS-REVERB-STACK~~ LD-15(TCLP) Blast Fie Baghouse Stacks | AG | <.05 5 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | AS | .15 5 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | BA | .41 100 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | CD | .98 1.0 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | CR | <.10 5.0 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | HG | 1.3 0.2 PPM | ppb | JJT | 13-JAN-97 | | 245.1 |
| | | | PB | .90 5 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | PH | 8.0 2-12 | pH | VPK | 02-JAN-97 | | 150.1 |
| | | | SE | <.10 1.0 | ppm | JJT | 10-JAN-97 | | 6010 |

Asb
Mastic
fiberglass
Casilicate
} composite sample

Sample both roll-offs
Asb
Insulation
} to make sure they pass

1/21/97
Per conversation w/
T. Martin.

Approved

Reviewer

ASARCO ELP 0015075

ASARCO TECHNICAL SERVICES CENTER

ANALYTICAL DATA REPORT

El Paso

Technical Services (Project 3201)

Batch No: WG970001

| LAB NO | DATE COLLECTED | DESCRIPTION | PARAMETER | VALUE | UNITS | ANALYST | DATE ANALYZED | HOLD DAYS | METHOD |
|---|---|---|---|---|---|---|---|---|---|
| WG970001-5 | | Detection Limit | AG | .05 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | AS | .10 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | BA | .10 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | CD | .05 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | CR | .10 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | HG | .5 | ppb | JJT | 13-JAN-97 | | 245.1 |
| | | | PB | .10 | ppm | JJT | 10-JAN-97 | | 6010 |
| | | | SE | .10 | ppm | JJT | 10-JAN-97 | | 6010 |

Approved

Reviewer

ASARCO ELP 00015076

# Technical Services Center

## Laboratory Services Request Form

### Environmental

**I. PLANT INFORMATION**

Plant Requesting Service: El Paso
Person Requesting Service:
Project Description:
Your Project No.:
Samples Collected By:

**II. REPORT INSTRU**

Orginal Report To:
Additional Copy Of Report To:
Services Requested Below are Requested No Later Than:
Please Forward Results by: US Mail ( ) FedEX (X) Fax ( ) Other ( )
Date

**SEND REQUESTS TO:**

ASARCO
TSC LABORATORY
3422 South 700 West
Salt Lake City, Utah
84119
Your Customer Service Representative is:
Jodie Haynes
Phone no: (801) 263-5256

**III. TYPE OF SERVICE REQUESTED:**

Please send the following supplies:
( ) Sampling media or containers Please Specify _____
( ) Laboratory services forms ( ) Other _____

Please analyze the enclosed samples for:

| Sampling Date & Time | Sample I.D./Description/Tag No. | No. of Containers | Analyses Requested | Comments | Laboratory Use Only Lab No. |
|---|---|---|---|---|---|
| 12/20/96 | Dross Reverb | 1 | T-Clip | | |
| 12:00 pm | Stack LD-15 | | | | |
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**IV. CHAIN OF CUSTODY RECORD**

Important: Use Signatures Below This Point

| Courier Company Name: FEDEX | | Shipping Airbill# | Custody Seal Intact |
|---|---|---|---|
| Received By: | Date | Time | Yes ✓ |
| | Date 12-31-96 | Time 10:00 | No |

ASARCO ELP 0015077