

Forensic Analytical Specialties, Inc.

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences

BULK ASBESTOS ANALYSIS REPORT

FOR

Client:

Hazard Management Services, Inc.

P.O. Box 7012

Modesto, CA 95355

Client Number: 146

Report Number: 7033

Date Received: 04/04/88

Date Examined: 04/09/88

Lab Number: 8809049
Sample Number: CPM-01
Site: Chapman Elementary

Analyst: MF

Location: Unit G, Room 4 - 12" VFT - beige and backing.

P.O.: Chapman

Gross Description: Off-white floor tile.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	<1	%	<1	%
Amosite	<1	%		
Crocidolite	<1	%		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	1-5	%	1-5	%
Mineral Wool	<1	%		
Polyethylene	<1	%		

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	95-99	%	95-99	%
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Analyst: Michelle J. Fox

Supervisor: [Signature]

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

Analyst: MF

Lab Number: 8809050
Sample Number: CPM-02
Site: Chapman Elementary

Location: Unit G, Room 4 - false ceiling panel 2' x 4'.

P.O.: Chapman

Gross Description: Yellow fibrous ceiling panel.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:
Chrysotile
Amosite
Crocidolite

<1
<1
<1

%
%
%
%

<1 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Mineral Wool
Polyethylene

Trace
90-95
<1

%
%
%
%

90-95 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:
Unspecified Particulates

5-10

%
%
%
%

5-10 %

Analyst:

Michelle J. Fox

Supervisor:

dc

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

Lab Number: 8809051
Sample Number: CPM-03
Site: Chapman Elementary

Analyst: MF

Location: Unit G, Room 3 - TSI - mudded joint.

P.O.: Chapman

Gross Description: Off-white semifibrous insulation

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:			1-5	%
Chrysotile	1-5	%		
Amosite	<1	%		
Crocidolite	<1	%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			65-70	%
Cellulose	20-25	%		
Mineral Wool	45-50	%		
Polyethylene	<1	%		
	<1	%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:			25-30	%
Unspecified Particulates	25-30	%		

Analyst:

Michelle J. Fox

Supervisor:

de

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

Lab Number: 8809052
Sample Number: CPM-04
Site: Chapman Elementary

Analyst: MF

Location: Supervisor's Trailer - acoustic ceiling panels - 12' x 1'

P.O.: Chapman

Gross Description: Off-white fibrous ceiling tile.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	<1	°°°°	<1	%
Amosite	<1	°°°°		
Crocidolite	<1	°°°°		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	75-80	°°°°	90-95	%
Mineral Wool	5-10	°°°°		
Polyethylene	<1	°°°°		

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	5-10	°°°°	5-10	%
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Analyst: Michelle J Fox

Supervisor: de

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

P.O. Box 7012
Modesto, CA 95355

Lab Number: 8809053
Sample Number: CPM-05
Site: Chapman Elementary

Analyst: MF

Location: Unit F, Room 3 (classroom 6) - 9" VFT - white and
backing.

P.O.: Chapman

Gross Description: Off-white floor tile assoc. with black tar
adhesive. (Asbestos in both tile and tar)

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	1-5	°°°
Amosite	<1	°°°
Crocidolite	<1	°°°

1-5 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	1-5	°°°
Mineral Wool	<1	°°°
Polyethylene	<1	°°°

1-5 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	95-99	°°°
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95-99 %

Analyst: Michelle Fox

Supervisor: DC

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Report Number: 7033

Date Received: 04/04/88

Date Examined: 04/09/88

Lab Number: 8809054
Sample Number: CPM-06
Site: Chapman Elementary

Analyst: MF

Location: Unit F, Room 5 - acoustic ceiling tiles.

P.O.: Chapman

Gross Description: Off-white fibrous ceiling tile.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile

<1

%

<1

%

Amosite

<1

%

Crocidolite

<1

%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose

90-95

%

90-95

%

Mineral Wool

<1

%

Polyethylene

<1

%

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

5-10

%

5-10

%

Analyst:

Michelle J. Fox

Supervisor:

[Signature]

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

Lab Number: 8809055
Sample Number: CPM-07A
Site: Chapman Elementary

Analyst: MF

Location: Unit F, Boy's Bathroom - hard plaster wall and ceiling.

P.O.: Chapman

Gross Description: Off-white wall plaster.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:			<1	%
Chrysotile	<1	%		
Amosite	<1	%		
Crocidolite	<1	%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			1-5	%
Cellulose	1-5	%		
Mineral Wool	<1	%		
Polyethylene	<1	%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:			95-99	%
Unspecified Particulates	95-99	%		

Analyst:

Michelle J. Fox

Supervisor:

[Signature]

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

Lab Number: 8809056
Sample Number: CPM-07C
Site: Chapman Elementary

Analyst: MF

Location: Unit F, Boy's Bathroom - hard plaster wall and ceiling.

P.O.: Chapman

Gross Description: Off-white wall plaster.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:			<1	%
Chrysotile	<1	%		
Amosite	<1	%		
Crocidolite	<1	%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			1-5	%
Cellulose	1-5	%		
Mineral Wool	<1	%		
Polyethylene	<1	%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:			95-99	%
Unspecified Particulates	95-99	%		

Analyst:

Michelle G. Fox

Supervisor:

DC

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

P.O. Box 7012
Modesto, CA 95355

Lab Number: 8809057
Sample Number: CPM-07B
Site: Chapman Elementary

Analyst: MF

Location: Unit F, Boy's Bathroom - hard plaster wall and ceiling.

P.O.: Chapman

Gross Description: Off-white plaster-like material.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	<1	%
Amosite	<1	%
Crocidolite	<1	%

<1 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	1-5	%
Mineral Wool	<1	%
Polyethylene	<1	%

1-5 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	95-99	%
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95-99 %

Analyst: Michelle J. Fox

Supervisor: DC

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Report Number: 7033

Date Received: 04/04/88

Date Examined: 04/09/88

Lab Number: 8809058
Sample Number: CPM-08
Site: Chapman Elementary

Analyst: MF

Location: Unit F, Room 2 (Library) - false ceiling panel 2' x 4'.

P.O.: Chapman

Gross Description: Off-white fibrous ceiling tile.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:			<1	%
Chrysotile	<1	%		
Amosite	<1	%		
Crocidolite	<1	%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			90-95	%
Cellulose	10-15	%		
Mineral Wool	75-80	%		
Polyethylene	<1	%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:			5-10	%
Unspecified Particulates	5-10	%		

Analyst:

Michelle J Fox

Supervisor:

[Signature]

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

Lab Number: 8809059
Sample Number: CPM-09A
Site: Chapman Elementary

Analyst: MF

Location: Unit A, Room 7 (water heater room) - debris.

P.O.: Chapman

Gross Description: Off-white fibrous wrap assoc. with white powder.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	75-80	%
Amosite	<1	%
Crocidolite	<1	%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	<1	%
Mineral Wool	<1	%
Polyethylene	<1	%

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	20-25	%
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Analyst:

Michelle Fay

Supervisor:

DC

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146

Report Number: 7033

Date Received: 04/04/88

Date Examined: 04/09/88

Lab Number: 8809060
Sample Number: CPM-09B
Site: Chapman Elementary

Analyst: MF

Location: Unit A, Room 2 (water heater room) - TSI - pipewrap,
straight.

P.O.: Chapman

Gross Description: Off-white fibrous wrap.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:			85-90	%
Chrysotile	85-90	%		
Amosite	<1	%		
Crocidolite	<1	%		
		%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			<1	%
Cellulose	<1	%		
Mineral Wool	<1	%		
Polyethylene	<1	%		
		%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:			10-15	%
Unspecified Particulates	10-15	%		
		%		
		%		
		%		

Analyst:

Michelle J. Fox

Supervisor:

[Signature]

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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Client Number: 146

Report Number: 7033

Date Received: 04/04/88

Date Examined: 04/09/88

Lab Number: 8809061
Sample Number: CPM-09C
Site: Chapman Elementary

Analyst: MF

Location: Unit A, Room 7 (water heater room) - TSI - mudded joint.

P.O.: Chapman

Gross Description: Off-white highly fibrous insulation.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	15-20	%	75-80	%
Amosite	55-60	%		
Crocidolite	<1	%		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	1-5	%	1-5	%
Mineral Wool	<1	%		
Polyethylene	<1	%		

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	15-20	%	15-20	%
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Analyst: Michelle J. Fox

Supervisor: de

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.

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P.O. Box 7012
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Client Number: 146
Report Number: 7033
Date Received: 04/04/88
Date Examined: 04/09/88

Lab Number: 8809062
Sample Number: CPM-10
Site: Chapman Elementary

Analyst: MF

Location: Unit A, Room 5 (kitchen) - 9" VFT - brown and backing.

P.O.: Chapman

Gross Description: Beige floor tile assoc. with black tar adhesive. (Asbestos in both tile and tar)

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:			10-15	%
Chrysotile	10-15	%		
Amosite	<1	%		
Crocidolite	<1	%		
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:			<1	%
Cellulose	<1	%		
Mineral Wool	<1	%		
Polyethylene	<1	%		
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:			85-90	%
Unspecified Particulates	85-90	%		

Analyst:

Michelle J. Fay

Supervisor:

[Signature]

COMMENTS: Analysis employs Polarized Light Microscopy with Dispersion Staining, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program. Samples with no observable asbestiform minerals are designated as containing less than one percent (<1%) asbestos. Samples in which asbestiform minerals have been observed, but exist in concentrations of less than one percent (<1%) are designated as present in "trace" amounts.