

Forensic Analytical Specialties, Inc.

Bulk Material Analysis Report

Client:
Hazard Management Services, Inc.

P.O. Box 7012
Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/16/89

Lab Number: 8904108
Sample Number: MAR-200A
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Off-white tile-like material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

Non-Det. %
Non-Det. %
Non-Det. %
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Polyethylene

Trace %
Non-Det. %
Non-Det. %
%

Trace %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

98-99 %
%
%
%

98-99 %

Supervisor: _____

David Kahane

David Kahane

SEE REVERSE FOR EXPLANATION OF TERMS AND REPORTING PRACTICES

Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)

NVLAQ

Accredited by the National Bureau
of Standards, National Voluntary
Laboratory Accreditation Program for
selected test methods for asbestos.

Consulting and Laboratory Services in the Forensic and Environmental Health Sciences

3777 Depot Road, Suite 406 - 408, Hayward, CA 94545 415/887-8828 FAX 415/887-4218

Forensic Analytical Specialties, Inc.

Bulk Material Analysis Report

Client:
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Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/16/89

P.O. Box 7012
Modesto, CA 95355

Lab Number: 8904109
Sample Number: MAR-200B
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Off-white tile-like material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

Non-Det. %
Non-Det. %
Non-Det. %
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Polyethylene

Trace %
Non-Det. %
Non-Det. %
%

Trace %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

98-99 %
%
%
%

98-99 %

Supervisor: _____

David Kahane

David Kahane

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Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)

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Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/16/89

P.O. Box 7012
Modesto, CA 95355

Lab Number: 8904110
Sample Number: MAR-200C
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Off-white tile-like material.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
Crocidolite	Non-Det. %	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		Trace %
Cellulose	Trace %	
Fibrous Glass	Non-Det. %	
Polyethylene	Non-Det. %	
	%	
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:		98-99 %
Unspecified Particulates	98-99 %	
	%	
	%	
	%	

Supervisor: _____

David Kahane

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Analytical method: 40 CFR 763, Subpart F, Appendix A (ASHERA)

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Client:
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Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/16/89

Lab Number: 8904111
Sample Number: MAR-201A
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Grey fibrous ceiling tile-like material with white
paint coating.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

Non-Det. %
Non-Det. %
Non-Det. %
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Polyethylene

35-40 %
35-40 %
Non-Det. %
%

75-80 %

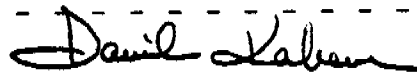
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates
Perlite

1-5 %
15-20 %
%
%

20-25 %

Supervisor: _____



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Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)

NVLAP

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Client:
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P.O. Box 7012
Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/16/89

Lab Number: 8904112
Sample Number: MAR-201B
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Grey fibrous ceiling tile-like material with white paint coating.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
Crocidolite	Non-Det. %	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		75-80 %
Cellulose	35-40 %	
Fibrous Glass	35-40 %	
Polyethylene	Non-Det. %	
	%	
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:		20-25 %
Unspecified Particulates	1-5 %	
Perlite	15-20 %	
	%	
	%	

Supervisor: _____



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Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)

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Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/16/89

Lab Number: 8904113
Sample Number: MAR-201C
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Grey fibrous ceiling tile-like material with white paint coating.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
Crocidolite	Non-Det. %	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		75-80 %
Cellulose	35-40 %	
Fibrous Glass	35-40 %	
Polyethylene	Non-Det. %	
	%	
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:		20-25 %
Unspecified Particulates	1-5 %	
Perlite	15-20 %	
	%	

Supervisor: _____

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SEE REVERSE FOR EXPLANATION OF TERMS AND REPORTING PRACTICES

Analytical method: 40 CFR 763, Subpart F, Appendix A (ANERA)

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Client:
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Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/17/89

Lab Number: 8904114
Sample Number: MAR-202A
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Off-white mottled linoleum-like material with white fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Non-Det. %

Chrysotile
Amosite
Crocidolite

Non-Det. %
Non-Det. %
Non-Det. %
%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

10-15 %

Cellulose
Fibrous Glass
Polyethylene
Synthetic

5-10 %
Trace %
Non-Det. %
1-5 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

85-90 %

Unspecified Particulates

85-90 %
%
%
%

Supervisor: _____

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Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)

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P.O. Box 7012
Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/17/89

Lab Number: 8904115
Sample Number: MAR-202B
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Off-white mottled linoleum-like material with white fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
Crocidolite	Non-Det. %	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		20-25 %
Cellulose	10-15 %	
Fibrous Glass	1-5 %	
Polyethylene	Non-Det. %	
Synthetic	1-5 %	
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:		75-80 %
Unspecified Particulates	75-80 %	
	%	
	%	
	%	

Supervisor: _____

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Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/17/89

Lab Number: 8904116
Sample Number: MAR-202C
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Off-white mottled linoleum-like material with white fibrous backing.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:		Non-Det. %
Chrysotile	Non-Det. %	
Amosite	Non-Det. %	
Crocidolite	Non-Det. %	
	%	
TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:		25-30 %
Cellulose	10-15 %	
Fibrous Glass	1-5 %	
Polyethylene	Non-Det. %	
Synthetic	5-10 %	
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:		70-75 %
Unspecified Particulates	70-75 %	
	%	
	%	
	%	

Supervisor: _____

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Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/17/89

Lab Number: 8904117
Sample Number: MAR-203A
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Brown fibrous material with white paint coating.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

Non-Det. %
Non-Det. %
Non-Det. %
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Polyethylene

15-20 %
1-5 %
Non-Det. %
%

20-25 %

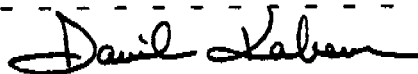
TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

75-80 %
%
%
%

75-80 %

Supervisor: _____



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Analytical method: 40 CFR 763, Subpart F, Appendix A (AHERA)



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Modesto, CA 95355

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/17/89

Lab Number: 8904118
Sample Number: MAR-203B
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Brown fibrous material with white paint coating.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

Non-Det. %
Non-Det. %
Non-Det. %
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Polyethylene
Synthetic

5-10 %
1-5 %
Non-Det. %
Trace %

10-15 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

85-90 %
%
%
%

85-90 %

Supervisor: _____

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Bulk Material Analysis Report

Client:
Hazard Management Services, Inc.

Client Number: 146
Report Number: 20917
Date Received: 01/30/89
Date Examined: 02/17/89

P.O. Box 7012
Modesto, CA 95355

Lab Number: 8904119
Sample Number: MAR-203C
Site:

Analyst: JM

Location:

P.O./Job ID: Chico Unified School District/Marigold.

Gross Description: Brown fibrous material with white paint coating.

Comments:

Microscopic Description

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

Non-Det. %
Non-Det. %
Non-Det. %
%

Non-Det. %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Fibrous Glass
Polyethylene

15-20 %
1-5 %
Non-Det. %
%

20-25 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

75-80 %
%
%
%

75-80 %

Supervisor: _____



David Kahane

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Consulting and Laboratory Services in the Forensic and Environmental Health Sciences

3777 Depot Road, Suite 406 - 408, Hayward, CA 94545 415/887-8828 FAX 415/887-4218



Client Number Report Number
 Received By Date Rec'd
 HAZARD MANAGEMENT SERVICES, INC.
 Bill To:
 P.O. Box 7012, Modesto, Ca 95355
 Billing Address:
 CHICO UNIFIED SCHOOL DIST.
 District or Business
 School OR
 Bldg Date

Reported Results Date/Time/By
 Collected by: JFSHARP Date 3/30/88
 Sent to Lab by: JES Date 4/4/88
 LAB Request: % Asbestos By PLM

FASI Lab#	Sample #HMS-	I - 1 page No	MATERIALS/LOCATION	% Asbestos
	MAR-01		M: 2x4 ceil panel L: Rm 17 - Unit "3"	<1
	MAR-02		M: 9" VFT - White/gray L: Rm 17 - Unit "3"	1-5
	MAR-03			
	MAR-03		M: Muddled Joint L: Rm 17 Attic - Unit "3"	<1
	MAR-04		M: Muddled Joint L: Outside Sider Area - Unit "5"	<1
	MAR-05		M: Blanket on Blower Over L: Kitchens - Unit "5"	<1
	MAR-06		M: Ceiling Material Insulation L: Cold Box Ceiling - Kitchen Area Unit "5"	30-35
	MAR-07		M: Acoustic tile - "12" L: wall & ceiling tile - Multipurpose and Pk-Units	<1
	MAR-08		M: 9" VFT - Citi Brown L: Rm 12 - Unit 1 Classroom	1-5
	MAR-09		M: Acoustic tile - 12" ceiling L: Unit 1 Rm 12 Classroom	<1

ADDITIONAL MANAGEMENT PLAN DATA

SAMPLING PROTOCOL

Where friable surfacing materials were encountered, the following sampling protocol was followed.

1. The homogeneous sampling area was divided into nine equal areas.
2. Random numbers were taken from a source (EPA's Sampling Strategy Booklet).
3. Three samples were collected at or near the center of the selected areas which totaled less than 1,000 square feet, five for 1,000 to 5,000 square feet, and seven or more for friable homogeneous areas greater than 5,000 square feet.

Where non-friable samples were collected, the following sampling protocol was followed:

1. Surfacing - three or more samples were collected, generally in non-conspicuous locations from each homogeneous material.
2. TSI - three or more samples were taken from homogeneous materials.
3. Miscellaneous - one or more samples were taken from miscellaneous materials in a manner sufficient to determine the asbestos content of each homogeneous material.

In some cases materials were assumed to contain asbestos. This was done with materials which always contain asbestos (transite or aircell insulation) or with materials which had been identified as ACBM in a previous survey.

PROJECT SP 1-A

ADDRESS SCHOOL MARGIOLLO & LOMA VISTA ELEM.

APPLICATION NO. 1

SIGNATURE DATE 10-1-88

SITE SUMMARY GRADES SERVED AT THIS SCHOOL

Table with columns: BLDG, UNIT DESCRIPTION, CONSTRUCTED APPLICATION NO, TOTAL AREA, NON-CHARGEABLE LEASE, BUTTE COUNTY, UNDER 30, OVER 30, SPEC. EDS., T/S, LAB/S. Rows include classrooms, special ed, kindergarten, multi-use, portables, and spec ed units.

PREPARED BY: THOMSON & HENDRICKS / ARCHITECTS & PLANNERS/ (916) 342-5669 234 WEST THIRD STREET CHICO, CALIF. 95928

SIX-MONTH SURVEILLANCE

DISTRICT CHICO UNIFIED SCHOOL DISTRICT DATE 12/27/89
 SCHOOL Marigold Elementary School INSPECTOR GRAVES

BLDG. HOMOG. ASBESTOS MAT. LOCATION CONDITION: CODE & COMMENTS

BLDG.	HOMOG.	ASBESTOS MAT.	LOCATION	CONDITION: CODE & COMMENTS
X	Transite Panels	Assumed	Both boilers in Main B/R	1 - 4
1	9" VFT	1 - 5%	Room 12 & rest of wing	1 - 4
1	PW Str	60 - 65%	B/R Room	1 - 4
X	9" VFT	1 - 5%	Room 17 & rest of unit	1 - 4
3	Transite panels	Assumed	Above glass panels	1 - 4
X	9" VFT	1 - 5%	Lib/staff & classrooms	1 - 4 (mostly carpet)
X	9" VFT	1 - 5%	Kit, MPR, AV store	1 - 4
5	Cold box ceiling	30 - 35%	Cold Box	1 - 4

CONDITION CODES

GENERAL CONDITION: (1) GOOD (2) DAMAGED (3) SIGNIFICANTLY DAMAGED (DAMAGED 2 * OR MORE)
 CHANGE IN CONDITION: (4) NO (5) YES [IF YES, EXPLAIN UNDER COMMENTS]
 ABATED: (6) REPAIRED (7) REMOVED (8) ENCAPSULATED (9) ENCLOSED (10) ISOLATED & RESTRICTED