

INSPECTION DOCUMENTS

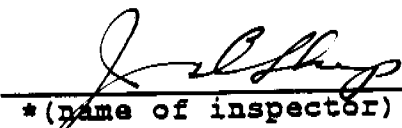
LEA: CHICO UNIFIED SCHOOL DISTRICT

SCHOOL: HOOKER OAK ELEMENTARY

DATE OF INSPECTION: MARCH 29, 1988

INSPECTOR: JAMES E SHARP, SR.

ACCREDITATION: U. C. BERKELEY, P. A. I. C. #4



*(name of inspector)

UNIVERSITY OF CALIFORNIA BERKELEY UNIVERSITY EXTENSION

This is to certify that

James E Sharp

has attended and satisfactorily passed the exam
for the course

Building Inspection and Management Planning for Asbestos

November 16-20, 1987

This certification is valid until:

November 20, 1988

November 18 and 20, 1987

Exam dates

4

Certificate number



Vivian Sutcher

Assistant Dean
University Extension

Deborah M.

Program Director
Pacific Asbestos Information Center

UNIVERSITY OF CALIFORNIA BERKELEY UNIVERSITY EXTENSION

This is to certify that

JAMES E. SHARP

has attended the refresher course
for building inspectors and management planners,

Advanced Topics in Building Inspection and Management Planning

December 13, 1988

Certificate number: 4

Valid until: December 13, 1989



Verina Suter
Assistant Dean
University Extension

Deborah Dill
Program Director
Pacific Asbestos Information Center

SUMMARY OF FRIABLE AND NON-FRIABLE ACBM BY BUILDING

SCHOOL			CDS CODE	
HOOKER OAK ELEMENTARY			04 61424 6003008	
ADDRESS			SCHOOL PHONE NUMBER	
(Number) 1238 ARBUTUS AVENUE			(City) CHICO	
			(Zip Code) 95926	

NUMBER OF BUILDINGS 6

LINE	BUILDING NAME (Indicate Address if Different From Above)	CHECK ONE				
		ACBM		ASSUMED ACBM		
		NONE	FRIABLE	NON-FRIABLE	FRIABLE	NON-FRIABLE
1.	UNIT A		X	X		
2.	UNIT B		X	X		
2.	UNIT C		X	X		
4.	UNIT D		X	X		
5.	UNIT E		X			
6.	UNIT F	X				
7.						
8.						
8.						
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
18.						
20.						

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809310

Analyst: BB

Sample Number: HKR-01

Site: Hooker Oak Elementary.

Location: Multi-purpose Room, Unit D - 9" VFT - Red

P.O.: Chico Unified School District.

Gross Description: Red tile and mastic (asbestos in both).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	1-5	3
Amosite	<1	3
Crocidolite	<1	3

1-5 3

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	Trace	3
Mineral Wool	<1	3
Polyethylene	<1	3

Trace 3

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	95-99	3
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95-99 3

Analyst:

Brent Beahm

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809311

Analyst: BB

Sample Number: HKR-02

Site: Hooker Oak Elementary.

Location: Multi-purpose room ceiling and north wall, Ceiling
tile 12" - white.

P.O.: Chico Unified School District.

Gross Description: Golden brown fibers and white paint.

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	%
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Analyst:

Brent Bealnell

Supervisor:

BB

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809312

Analyst: BP

Sample Number: HKR-03

Site: Hooker Oak Elementary.

Location: Stage, electrical panel area and attic - Pipewrap.

P.O.: Chico Unified School District.

Gross Description: Fibrous, white material (core sample).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	10-15	%	15-20	%
Amosite	1-5	%		
Crocidolite	<1	%		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

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

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	80-95	%	80-85	%
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Analyst:

Robert Bealwell

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809313

Analyst: BB

Sample Number: HKR-04

Site: Hooker Oak Elementary.

Location: Stage, west attic throughout attic - Vent duct wrap, aircell.

P.O.: Chico Unified School District.

Gross Description: Off-white fibrous wrap.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	10-15	%	10-15	%
Amosite	<1	%		
Crocidolite	<1	%		
		%		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	80-85	%	80-85	%
Mineral Wool	<1	%		
Polyethylene	<1	%		
		%		

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	5-10	%	5-10	%
		%		
		%		
		%		

Analyst:

Brent Beadnell

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809314

Sample Number: HKR-05

Site: Hooker Oak Elementary.

Analyst: BB

Location: Stage Basement - Pipewrap straight.

P.O.: Chico Unified School District

Gross Description: Fibrous, white material (core sample).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	10-15	%	20-25	%
Amosite	5-10	%		
Crocidolite	<1	%		
		%		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

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

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	75-80	%	75-80	%
		%		
		%		
		%		

Analyst:

Brent Beal

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809315

Sample Number: HKR-06

Site: Hooker Oak Elementary.

Analyst: BB

Location: Boiler Room - Pipewrap corner.

P.O.: Chico Unified School District.

Gross Description: Fibrous, white material (core sample).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	10-15	%	20-25	%
Amosite	5-10	%		
Crocidolite	<1	%		
		%		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	5-10	%	5-10	%
Mineral Wool	<1	%		
Polyethylene	<1	%		
		%		

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	65-75	%	65-75	%
		%		
		%		
		%		

Analyst:

Brent Beal

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.

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 95365

Client Number: 146

Report Number: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 3809316

Sample Number: HKR-07

Site: Hooker Oak Elementary.

Analyst: BB

Location: Boiler Room - Pipewrap.

P.O.: Chico Unified School District.

Gross Description: Brown, fibrous material backed by off-white, fibrous material (wrap).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	15-20	3	15-20	3
Amosite	<1	3		
Crocidolite	<1	3		
		3		

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	65-70	3	65-70	3
Mineral Wool	<1	3		
Polyethylene	<1	3		
		3		

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	10-20	3	10-20	3
		3		
		3		
		3		

Analyst:

Brent Beadnell

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.

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: 7091
Date Received: 04/05/88
Date Examined: 04/11/88

Analyst: BB

Lab Number: 8809317
Sample Number: HKR-08
Site: Hooker Oak Elementary.

Location: Boiler Room - Boiler liner.

P.O.: Chico Unified School District.

Gross Description: Off-white, fibrous wrap.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

50-55

%
%
%

50-55

%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Mineral Wool
Polyethylene

10-15

%
%
%

10-15

%

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

30-40

%
%
%

30-40

%

Analyst:

Brent Bealwell

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.

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: 7091
Date Received: 04/05/88
Date Examined: 04/11/88

Analyst: BB

Lab Number: 2809318
Sample Number: HKR-09
Site: Hooker Oak Elementary.

Location: Boiler Room, hot water tank - Insulation.

P.O.: Chico Unified School District.

Gross Description: Off-white, "foamed" insulation.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile
Amosite
Crocidolite

<1
<1
<1

3
3
3
3

<1

%

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose
Mineral Wool
Polyethylene

<1
<1
<1

3
3
3
3

<1

%

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

98-99

3
3
3
3

98-99

%

Analyst:

Brent Beal

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809319

Sample Number: HKR-10

Site: Hooker Oak Elementary.

Analyst: BB

Location: Multi-purpose Room - Unit D, front of stage area -
T-O-C.

P.O.: Chico Unified School District.

Gross Description: Off-white material.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile

1-5

%

Amosite

<1

%

Crocidolite

<1

%

1-5 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose

Trace

%

Mineral Wool

<1

%

Polyethylene

<1

%

Trace %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates

95-99

%

95-99 %

Analyst:

Runt Beadnell

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.

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: 7091
Date Received: 04/05/88
Date Examined: 04/11/88

Lab Number: 8809320
Sample Number: HKR-11
Site: Hooker Oak Elementary.

Analyst: BB

Location: Portable Room 17, Unit F - Ceiling panel 244.

P.O.: Chico Unified School District.

Gross Description: Off-white, fibrous, ceiling tile and white paint.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

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

<1 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	10-15	%
Mineral Wool	15-20	%
Polyethylene	<1	%

30-35 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	65-70	%
--------------------------	-------	---

65-70 %

Analyst:

Brent Beadnell

Supervisor:

BB

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809321

Sample Number: HKR-12

Site: Hooker Oak Elementary.

Analyst: BE

Location: Portable Room 17, Unit E - Floor tile 12" VET - beige.

P.O.: Chico Unified School District.

Gross Description: Off-white tile and yellow glue (trace asbestos in glue).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	Trace	%
Amosite	<1	%
Crocidolite	<1	%

Trace %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

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

Trace %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	98-99	%
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98-99 %

Analyst:

Rent Bealwell

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.

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: 140
Report Number: 7091
Date Received: 04/05/88
Date Examined: 04/11/88

Lab Number: 8809312
Sample Number: HKR-12
Site: Hooker Oak Elementary.

Analyst: BE

Location: Room 13, Unit E & A - 9" VET - green.

P.O.: Chico Unified School District.

Gross Description: Green tile chips.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	1-5	0
Amosite	<1	0
Crocidolite	<1	0

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	Trace	0
Mineral Wool	<1	0
Polyethylene	<1	0

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	25-39	0
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Analyst:

Michael J. Fox 1033

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.

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: 7091
Date Received: 04/05/88
Date Examined: 04/11/88

Lab Number: 8809323
Sample Number: HKR-14
Site: Hooker Oak Elementary.

Analyst: BB

Location: Resource Room - 12" ceiling tile.

P.O.: Chico Unified School District.

Gross Description: Light brown fibers and white paint (ceiling tile).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

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

<1 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	90-95	%
Mineral Wool	<1	%
Polyethylene	<1	%

90-95 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	5-10	%
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5-10 %

Analyst:

Brent Beal

Supervisor:

BB

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.

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.

Client Number: 146
Report Number: 7091
Date Received: 04/05/88
Date Examined: 04/11/88

P.O. Box 7012
Modesto, CA 95355

Lab Number: 8809324
Sample Number: HKR-15
Site: Hooker Oak Elementary.

Analyst: BE

Location: Room 5, Unit C - 9" VFT - light brown.

P.O.: Chico Unified School District.

Gross Description: Brown, "swirled", floor tile.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	1-5	%
Amosite	<1	%
Crocidolite	<1	%

1-5 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

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

Trace %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

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

95-99 %

Analyst:

Brent Beal

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.

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: 7091
Date Received: 04/05/88
Date Examined: 04/11/88

Lab Number: 8809325
Sample Number: HKR-16
Site: Hooker Oak Elementary.

Analyst: BB

Location: Room 5, Unit C - 9" VFT - dark green.

P.O.: Chico Unified School District.

Gross Description: Dark green, floor tile.

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	1-5	%
Amosite	<1	%
Crocidolite	<1	%

1-5 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

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

Trace %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	95-99	%
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95-99 %

Analyst:

Robert Bealwell

Supervisor:

BB

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.

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: 7091

Date Received: 04/05/88

Date Examined: 04/11/88

Lab Number: 8809326

Sample Number: HKR-17

Site: Hooker Oak Elementary.

Analyst: BB

Location: Administration Office, Unit D - Linoleum.

P.O.: Chico Unified School District.

Gross Description: Off-white, patterned linoleum with fibrous backing and mastic (asbestos in mastic only).

MICROSCOPIC DESCRIPTION:

TOTAL ASBESTOS PRESENT:

Chrysotile	5-10	%
Amosite	<1	%
Crocidolite	<1	%

5-10 %

TOTAL NON-ASBESTOS FIBROUS MATERIAL PRESENT:

Cellulose	20-25	%
Mineral Wool	5-10	%
Polyethylene	<1	%

30-35 %

TOTAL NON-ASBESTOS NON-FIBROUS MATERIAL PRESENT:

Unspecified Particulates	55-65	%
--------------------------	-------	---

55-65 %

Analyst:

Brent Beal

Supervisor:

JB

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.

FORENSIC ANALYTICAL SPECIALTIES INC. - ASBESTOS ANALYSIS LABORATORY REQUEST FORM

BULK SAMPLES

3777 Depot Rd: Suite 408 Hayward, Ca. 94545 (415) 887-8828 Page 1 of

Client Number		Report Number		HAZARD MANAGEMENT SERVICES, INC		CHICO UNIFIED SCHOOL DIST	
Received By		Date Rec'd		Billing Address:		District or Business	
				P.O. Box 7012, Modesto, Ca 95355		School <u>Yosemite Oak Blm</u>	
Reported Results		Date/Time/By		Collected by: <u>JES</u>		Bldg <u>4/188</u>	
				LAB Request: % Asbestos By PLM		Sent to Lab by: <u>JES</u>	
Sample #HMS-		I - 1 page No		MATERIALS/LOCATION		% Asbestos	
HKR-01				M: 9" VET - Red		1-5	
HKR-02				L: Multipurpose room - Unit D			
HKR-03				M: Oil 12" - white		<1	
HKR-04				L: Multipurpose room - Unit D with wall			
HKR-05				M: Ceiling		15-20	
HKR-06				L: Stage - electrical panel area & attic			
HKR-07				M: Under duct wrap - duct wall		10-15	
HKR-08				L: Stage - wet attic floor and attic			
HKR-09				M: Ceiling straight		20-25	
HKR-10				L: Stage - cement			
				M: Pipe wrap area		20-25	
				L: Boiler room			
				M: Boiler room - Boiler room - Boiler room		15-20	
				L: Boiler room - Boiler room - Boiler room			
				M: Boiler room - Boiler room - Boiler room		50-55	
				L: Boiler room - Boiler room - Boiler room			
				M: Boiler room - Boiler room - Boiler room		<1	
				L: Boiler room - Boiler room - Boiler room			
				M: T-0-0		1-5	
				L: Boiler room - Boiler room - Boiler room			

B U L K S A M P L E S

3777 Depot Rd: Suite 408 Hayward, Ca. 94545 (415) 887-8828 Page 1 of 1

Client Number	Report Number	HAZARD MANAGEMENT SERVICES, INC	SCHOOL UNIFIED SCHOOL DIST.
Received By	Date Rec'd	Bill To:	District or Business
		P.O. Box 7012, Modesto, Ca 95355	School <u>ARKER OAK ELEM</u>
		Billing Address:	OR
		<u>J. E. SHARP</u>	Bldg <u>SRU</u>
		Collected by:	Date <u>3/29/81</u>
Reported Results	Date/Time/By	LAB Request: % Asbestos By PLM	Sent to Lab by: <u>4/1/88</u>
			date

FAS Lab #	Sample #HMS-	I - 1 page No	MATERIALS/LOCATION	% Asbestos
	HKR-11		M: Ceiling paper 2nd L: Unit 5 - Potable Rm 17	<1
	HKR-12		M: Floor tile 12" (VFT) - large L: Unit 5 - Potable Rm 17	TRACE
	HKR-13		M: 9" VFT - green L: Rm 13 Unit 5 Unit A	1-5
	HKR-14		M: 12" Ceil tile L: Resource Rm.	<1
	HKR-15		M: 9" VFT - Site Power L: Rm 5 - Unit C	1-5
	HKR-16		M: 9" VFT - dark green L: Rm 5 - Unit C	1-5
	HKR-17		M: Denatium L: Admin. Office Unit D	5-10
			M: L:	
			M: L:	
			M: L:	

Forensic Analytical Specialties, Inc.

Dear Local Educational Assistance Official:

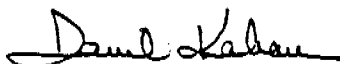
Forensic Analytical Specialties, Inc., in accordance with the Asbestos Hazards Emergency Response Act, has received Accredited Laboratory status for the purpose of analyzing suspected asbestos-containing materials in schools. Verification of this accreditation can be found in the Federal Register/Vol. 53, No. 169/August 31, 1988, page 33611.

The analysis of each sample received by our laboratory becomes the responsibility of one of our qualified microscopists. Different samples within a single group or in different groups submitted by the same client may be assigned to different analysts. In order to simplify the reporting process, the analyst responsible for each sample is listed by initials in the upper right-hand corner of each report and the report is signed solely by the lab supervisor. To satisfy any questions regarding signatures by each analyst involved in sample characterization, listed below are the signatures corresponding to the analyst's initials which you may find on your particular set of reports:

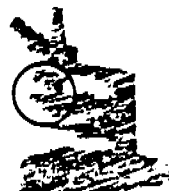
<u>Initials</u>	<u>Analyst Name</u>	<u>Analyst Signature</u>
BB	Brant Beadnell	<i>Brant Beadnell</i>
MF	Michelle Fox	<i>Michelle Fox</i>
DK	David Kahane	<i>David Kahane</i>
JM	Jeff Malaihollo	<i>Jeffrey A. Malaihollo</i>
DN	David Nesbitt	<i>D. J. Nesbitt</i>
SAS	Stephen A. Shaffer	<i>Stephen A. Shaffer</i>
BT	Boyd Taylor	<i>Boyd Taylor</i>

I hope that this additional information will help clarify any issues regarding laboratory result reporting practices under AHERA. We wish you good luck in the effective implementation of your Hazard Management Plan.

Sincerely,



David Kahane
Director of Environmental Services
Forensic Analytical Specialties, Inc.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

--- 21 1989

9220

Stephen A. Shaffer
Forensic Analytical Specialties, Inc.
3777 Depot Road Suite 408
Hayward, CA 94545

SUBJECT: EPA Interim Laboratory Accreditation for Laboratories
Which Offer Analysis of Bulk Samples for Asbestos

Dear Laboratory Director:

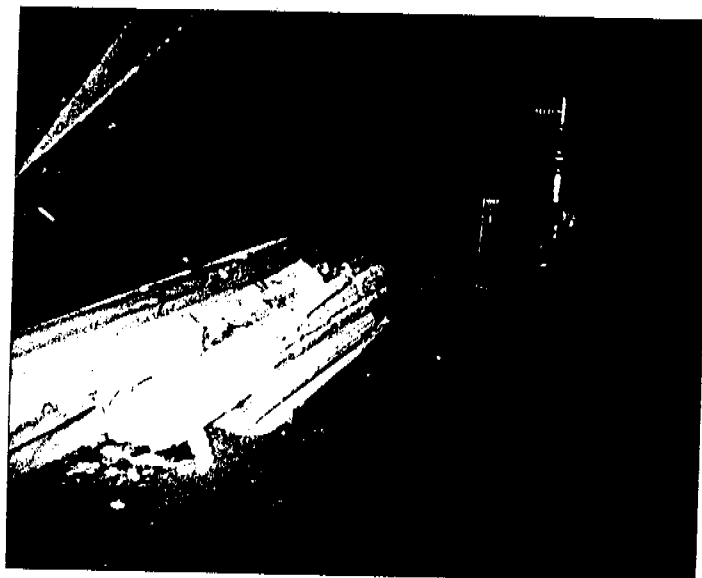
The U.S. Environmental Protection Agency (EPA) has completed its review of the results of the second round of analyses in the EPA "Interim Asbestos Bulk Sample Analysis Quality Assurance Program." I am pleased to inform you that your laboratory has successfully classified each of four bulk samples submitted to your facility as either asbestos-containing or nonasbestos-containing. Since each sample was correctly classified, a status of "accredited" has been assigned to your laboratory. As you are aware, each laboratory is also given a numerical score which does not affect your accredited status. The numerical score reflects your laboratory's performance in determining the quantity and type of asbestos in the asbestos-containing samples. Your laboratory's score is 100%.

As announced in the FEDERAL REGISTER of March 29, 1988 (see enclosed copy), the second round of the EPA Interim Program is the last planned round of EPA accreditation. Laboratories which are accredited in the second round of this program will be considered accredited until January 12, 1989. The National Bureau of Standards (NBS) will begin formal operation of the National Voluntary Laboratory Accreditation Program (NVLAP) for laboratories which conduct analyses of bulk samples for asbestos by polarized light microscopy (PLM) in October 1988. Applications for participation in this program are currently being accepted. You may contact Dr. Larry Gallowin of NBS at (301)975-4022 for enrollment information. An exception to the EPA deadline of January 12, 1989 has been made for laboratories which are accredited in the second EPA round and have enrolled in the NBS program by September 10, 1988. These laboratories will be considered accredited by EPA until NBS has completed its first evaluation of an individual laboratory's performance. The enclosed copy of the FEDERAL REGISTER notice details the period of transition from EPA accreditation to NBS accreditation. Please note that a laboratory currently accredited by EPA must enter the NBS program and receive accreditation from NBS to continue analysis of bulk samples from school buildings.

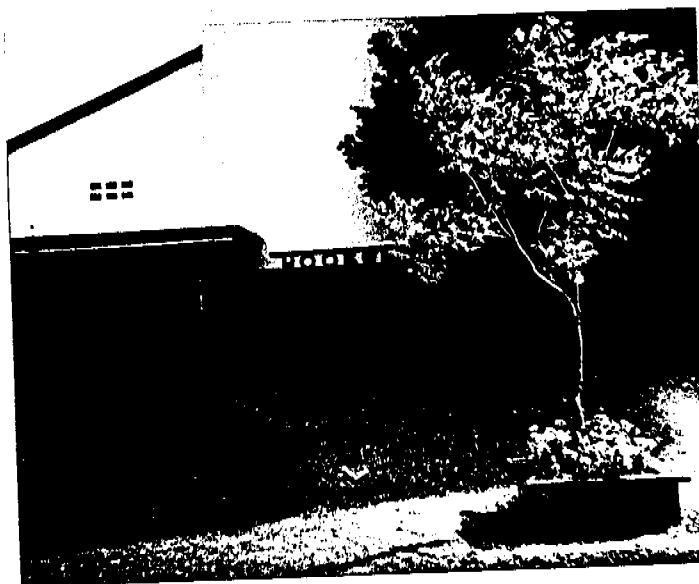
Should you have any questions regarding the current EPA round of accreditation, you may contact Bruce Harvey of Research Triangle Institute at (919)541-6369. Thank you for your participation in the program.

Sincerely,

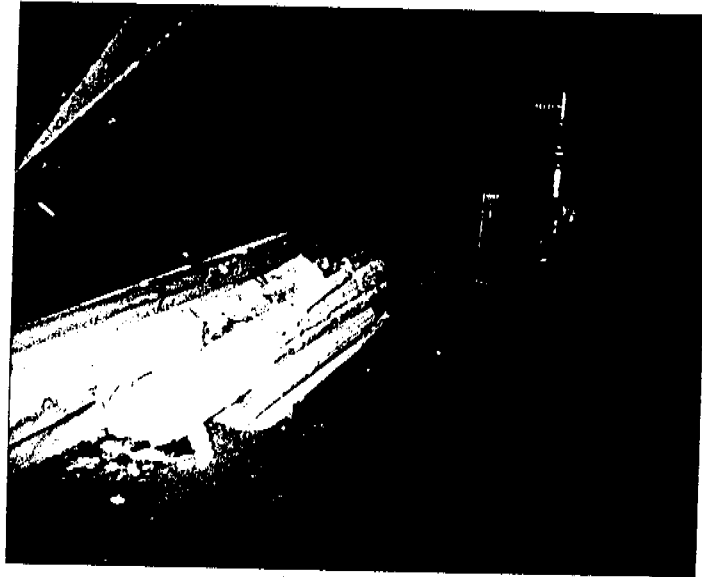
Martin P. Halper, Director
Exposure Evaluation Division (TS-299)



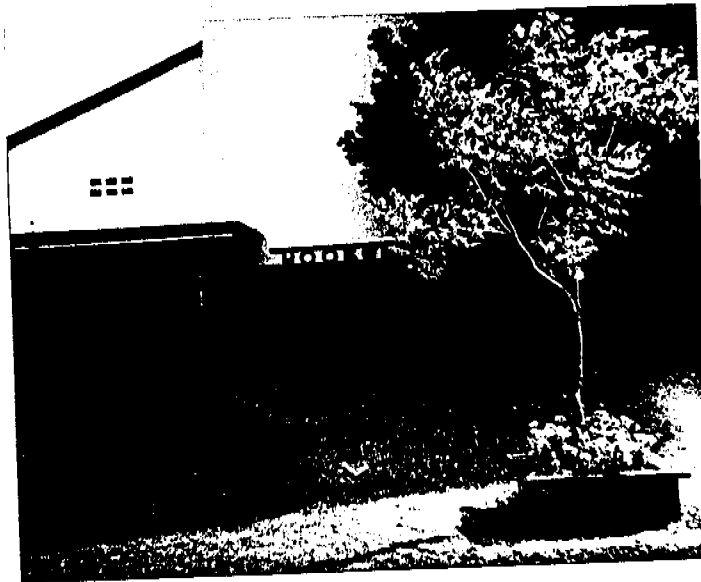
Hooker Oak School
MPR attic
Pipewrap debris



Hooker Oak School
3/29/88



Hooker Oak School
MPR attic
Pipewrap debris



Hooker Oak School
3/29/88

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL HOOVER OAK

Date 3/29/88

Building D

Inspector JFS

Location BOILER RM
(functional area)

HMS-HRK-07

Material: Surfacing TSI Misc. _____ % Asbestos _____
Description PIPEWRAP STRAIGHTS

Amount of Material (NF / F) 70/0 (ft² / lf) Assumed ACM: Y / N # of samples 1

CONDITION: % damaged: Extent of damage:
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: No damage

POTENTIAL FOR DISTURBANCE:

Accessibility: H M L
Vibration : H M L
Air Erosion : H M L
Water : H M L

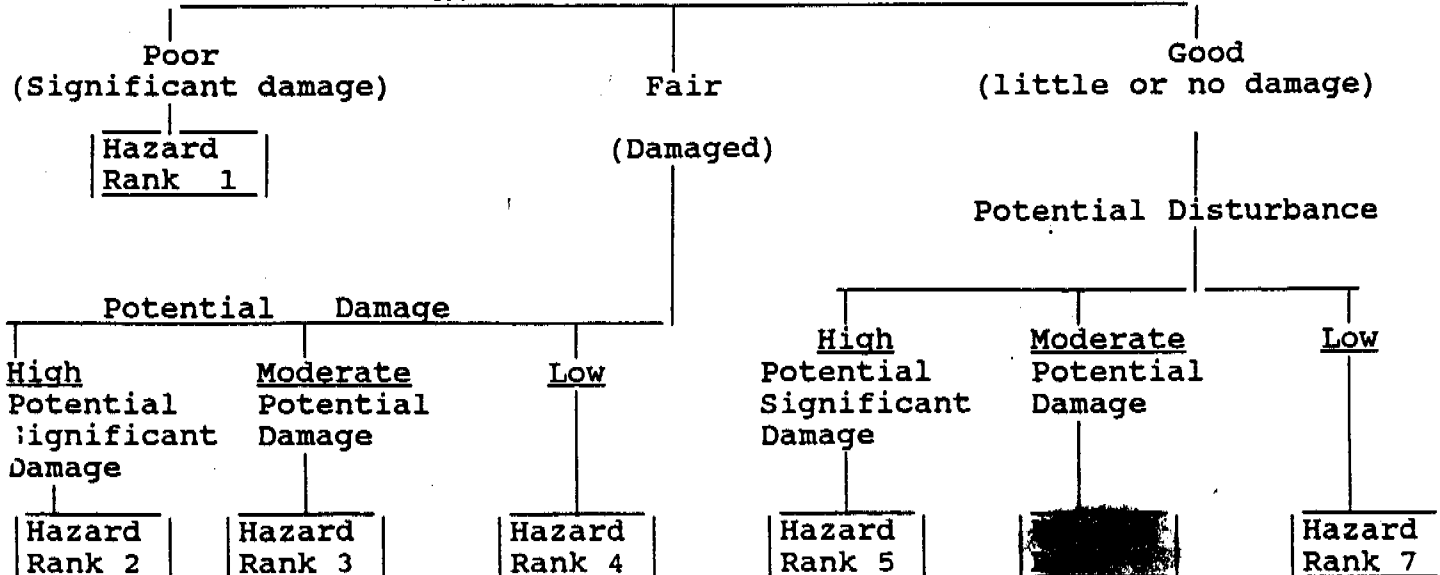
PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: Avoid storing
items that will contact
pipewrap.

REMEDIAL ACTIONS
isolate/restrict repair/cleanup
enclose encapsulate
remove O&M

ACBM Condition - Assessment



Inspection Form I-1

DISTRICT _____
 SCHOOL HOOVER OAK
 Building D
 Location BOILER
 (functional area)

Page ____ of ____
 Date 3/29/89
 Inspector JES
 HMS-HRK-06

Material: Surfacing (TSI) Misc. % Asbestos 20-25
 Description MUDDY JOINT SOME STRAIGHTS FIBER GLASS

Amount of Material (NF / F) 40 / 0 (ft² / lf) Assumed ACM: Y / N # of samples 1

CONDITION: % damaged: Extent of damage:
0% <1% 1-10% 11-25% >25% (none) local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: _____

POTENTIAL FOR DISTURBANCE:

Accessibility: (H) M L
 Vibration : H M (L)
 Air Erosion : H M (L)
 Water : H M (L)

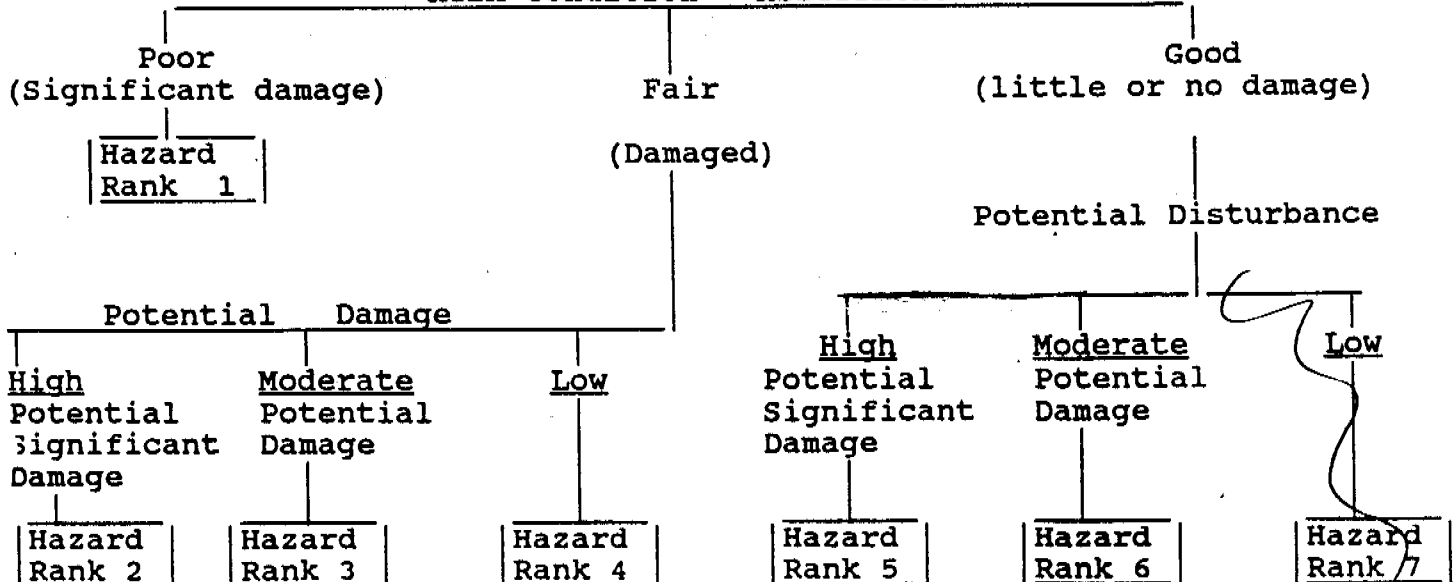
PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: _____

REMEDIAL ACTIONS
 isolate/restrict repair/cleanup
 enclose encapsulate
 remove O&M

ACBM Condition - Assessment



Inspection Form I-1

DISTRICT _____

Page ____ of ____

SCHOOL HOCKERDate 3/24/88Building DInspector JESLocation MPR
(functional area)HMS HKR-10Material: Surfacing TSI Misc. % Asbestos 1-5
Description TROWELED ON CEILING PLASTERAmount of Material (NF / F) 650/0 (ft²/lf) Assumed ACM: Y / N # of samples 1CONDITION: % damaged: Extent of damage:
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION:

POTENTIAL FOR DISTURBANCE:

Accessibility: H M (L)
Vibration : H M (L)
Air Erosion : H M (L)
Water : H M (L)

PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS:

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

enclose

encapsulate

remove

O&M

ACBM Condition - Assessment

Poor
(Significant damage)

Fair

Good
(little or no damage)Hazard
Rank 1

(Damaged)

Potential Disturbance

Potential Damage

High
Potential
Significant
DamageModerate
Potential
Damage

Low

Hazard
Rank 2Hazard
Rank 3Hazard
Rank 4High
Potential
Significant
DamageHazard
Rank 5Moderate
Potential
DamageHazard
Rank 6

Low

Hazard
Rank 7

HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL HOOVER OAKDate 3/29/88Building UNIT AInspector JESLocation RM 1B
(functional area)HMS-HKR-13Material: Surfacing TSI Misc. % Asbestos _____
Description VET 9" GREENAmount of Material (NF / F) 2,880 / 0 (ft² / lf) Assumed ACM: Y / N # of samplesCONDITION: % damaged: Extent of damage: 1
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: _____

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

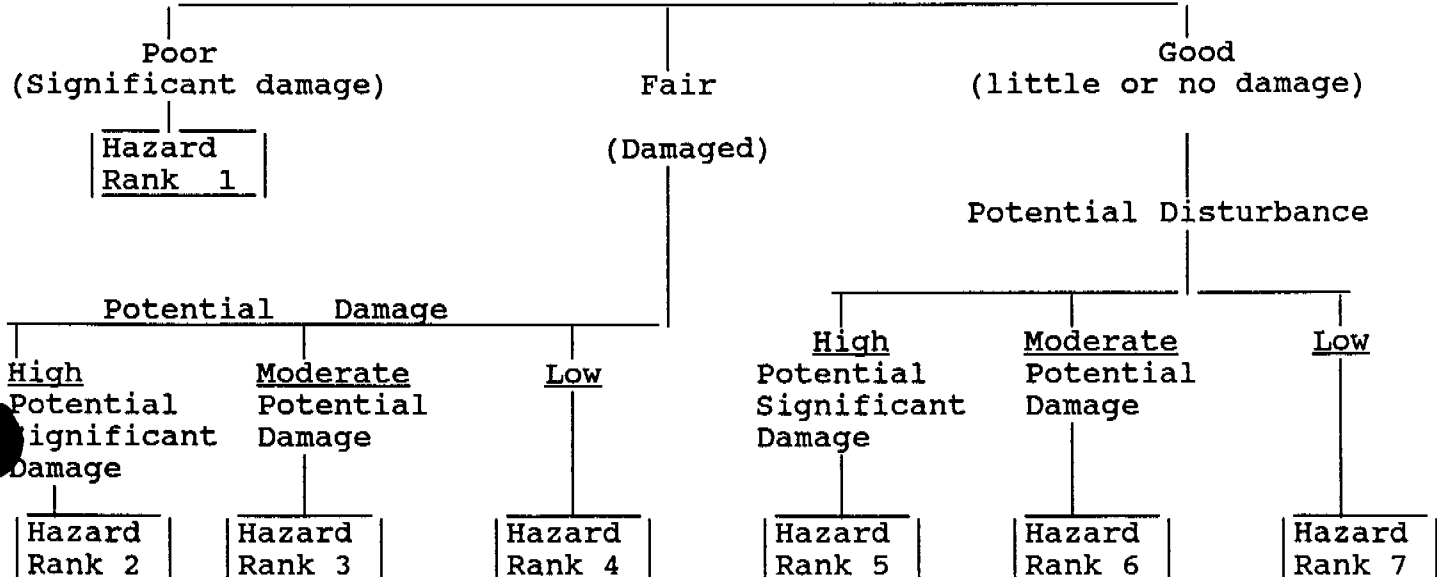
Accessibility: H M L
Vibration : H M L
Air Erosion : H M L
Water : H M L

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: _____

_____REMEDIAL ACTIONS
isolate/restrict repair/cleanup
enclose encapsulate
remove O&M

ACBM Condition - Assessment



Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL HOOVER OAKDate 3/24/88Building UNIT CInspector JESLocation RM 5HMS-HKR-15

(functional area)

Material: Surfacing TSI Misc % Asbestos _____Description OFT 9" LIGHT BRNAmount of Material (NF / F) 4800/20 (ft²/lf) Assumed ACM: Y / N # of samples 1

CONDITION: % damaged: Extent of damage:

0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION:

POTENTIAL FOR DISTURBANCE:

Accessibility: H M L
 Vibration : H M L
 Air Erosion : H M L
 Water : H M L

PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
- 3 Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS:

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

enclose

encapsulate

remove

O&M

ACBM Condition - Assessment

Poor
(Significant damage)

Fair

Good
(little or no damage)Hazard
Rank 1

(Damaged)

Potential Disturbance

Potential Damage

High
Potential
Significant
DamageModerate
Potential
Damage

Low

Hazard
Rank 2Hazard
Rank 3Hazard
Rank 4High
Potential
Significant
DamageHazard
Rank 5Moderate
Potential
DamageHazard
Rank 6

Low

Hazard
Rank 7

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL HOOKER OAKDate 3/29/88Building UNIT CInspector JESLocation RM 5
(functional area)HMS-HKR-16Material: Surfacing TSI Misc. % Asbestos _____
Description 1/2" 4" GREENAmount of Material (NF / F) 4800/10 (ft² / lf) Assumed ACM: Y / N # of samples 1CONDITION: % damaged: Extent of damage:
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: _____

POTENTIAL FOR DISTURBANCE:

Accessibility: (H) M (L)
Vibration : H M (L)
Air Erosion : H M (L)
Water : H M (L)

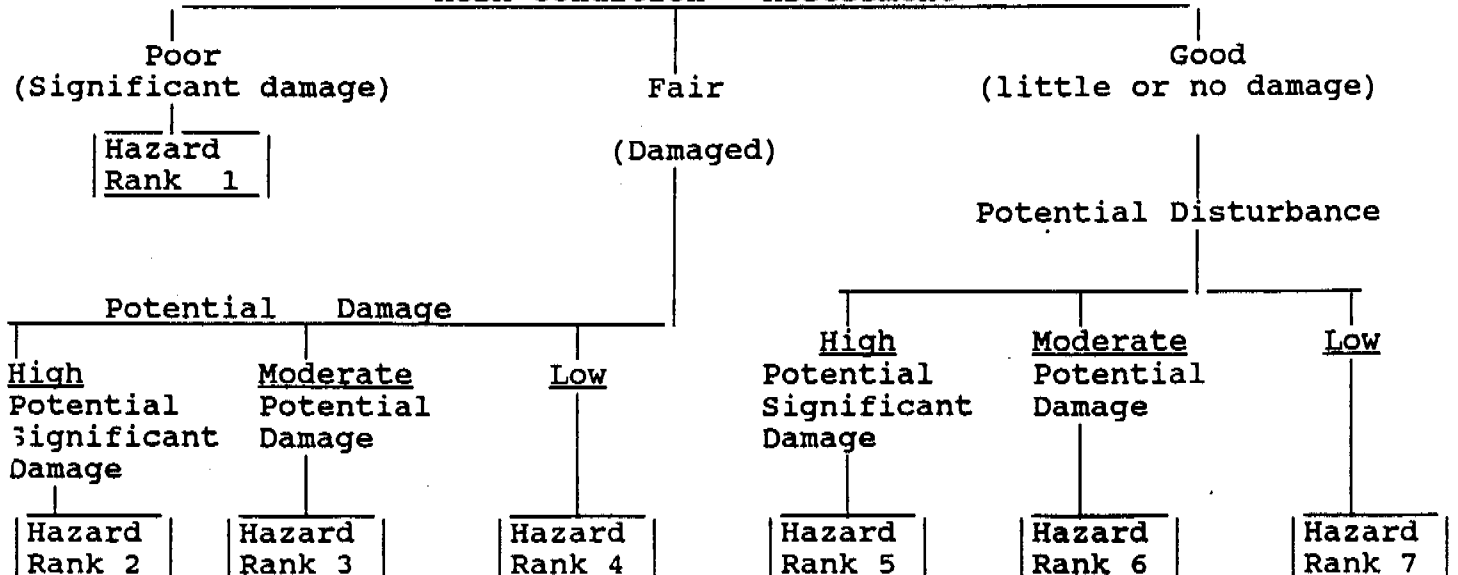
PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: _____

_____REMEDIAL ACTIONS
isolate/restrict repair/cleanup
enclose encapsulate
remove O&M

ACBM Condition - Assessment



Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL HOOVER OAK ELEM.Date 3/29/88Building MPRInspector JESLocation UNIT D
(functional area)HMS HKR-D1Material: Surfacing TSI Misc. % Asbestos _____
Description NET 9" REDAmount of Material (NF / F) _____ (ft² / lf) Assumed ACM: Y / N # of samples _____CONDITION: % damaged: _____ Extent of damage: _____
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: _____

POTENTIAL FOR DISTURBANCE:

Accessibility: (H) M L
Vibration : H M (1)
Air Erosion : H M (1)
Water : H M (1)

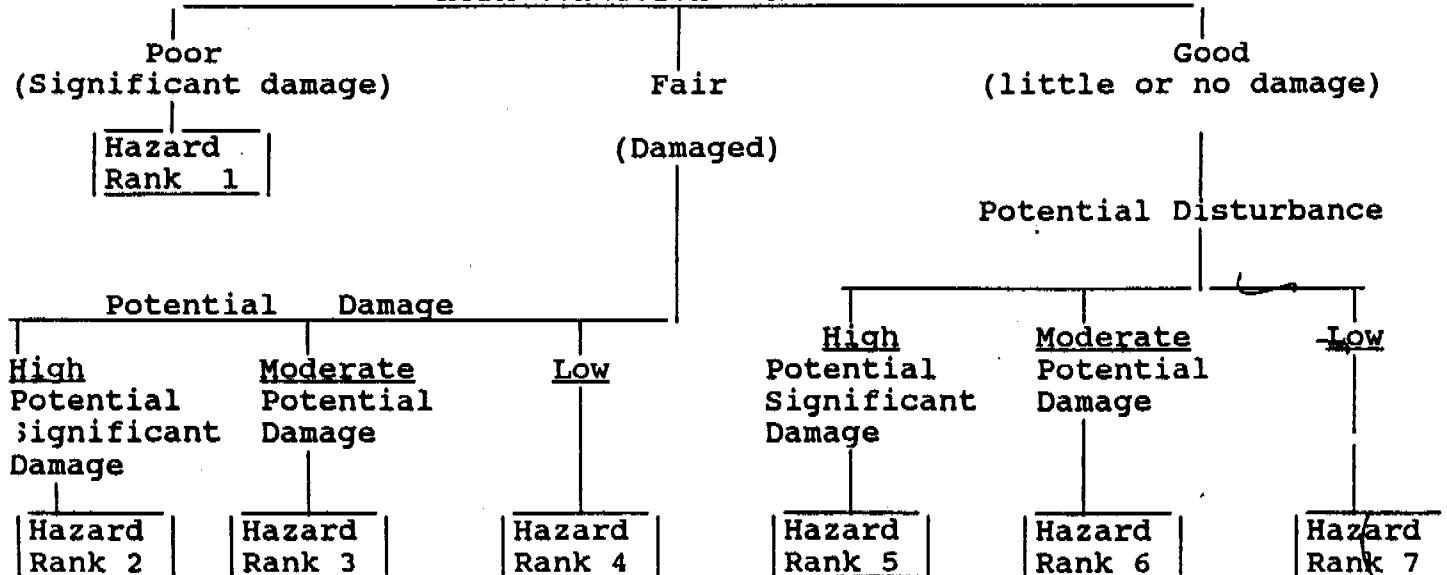
PREVENTATIVE MEASURES:

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
- (5) Avoid contact

COMMENTS: _____

_____REMEDIAL ACTIONS
isolate/restrict repair/cleanup
enclose encapsulate
remove O&M

ACBM Condition - Assessment



HAZARD MANAGEMENT SERVICES, INC.

Inspection Form I-1

DISTRICT _____

Page _____ of _____

SCHOOL HOOKE/ OAKDate 3/29/88Building UNIT DInspector JESLocation ADMIN. OFFICE
(functional area)HMS HKB-17Material: Surfacing TSI Misc % Asbestos 5-10
Description LINOLEUMAmount of Material (NF / F) 250/0 (ft² / lf) Assumed ACM: Y / N # of samples 1CONDITION: % damaged: Extent of damage:
0% <1% 1-10% 11-25% >25% none local distributed

Type damage: air; deterioration; water; physical; flaking

DESCRIPTION: _____

POTENTIAL FOR DISTURBANCE:

PREVENTATIVE MEASURES:

Accessibility: H M L
Vibration : H M L
Air Erosion : H M L
Water : H M L

1. Fix Leaks
2. Prevent water contact
3. Do not DCSG
4. Do not affix signs/deco's
5. Avoid contact

COMMENTS: _____

REMEDIAL ACTIONS

isolate/restrict repair/cleanup

enclose encapsulate

remove O&M

ACBM Condition - Assessment

