Lead-based Paint and Asbestos Investigation

Old County Courthouse
Santa Fe, NM

PREPARED BY:
ACME ENVIRONMENTAL, INC.
3816 CARLISLE NE ALBUQUERQUE, NM 87107
(505) 872-2263 FAX (505) 889-8261

ACME PROJECT NUMBER 13-161

Project Leader

Signed: Brett Engel **Date:** 11/08/13

Brett Engel
EPA Accredited Asbestos Inspector
EPA Certified Risk Assessor

Quality Control Reviewed:

Signed: Debbie Real **Date:** 11/08/13

Debbie Real,
EPA Certified Risk Assessor

ACME ENVIRONMENTAL

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PROJECT SUMMARY

Asbestos Containing Materials

Based on the analytical data reported to Acme derived from the bulk samples collected, the following homogeneous materials *are considered ACM* in the facility.

- Vinyl tile (not mastic) in select bathroom and closet locations (see drawings). Total of approximately 2000 sq ft.
- Roof sealant/asphalt. Assumed total of approximately 25,000 sq ft.
- Fire doors are assumed to be asbestos containing.

Lead Materials

Based on the analytical data derived from the samples analyzed, the following homogeneous materials *are considered Lead Containing* in the facility.

- All brass handrails and base plates.

Radon

Based on the analytical data derived from the samples analyzed, Radon levels within the crawlspace are 6.6 pCi/L. This level exceeds the EPA recommended acceptable level of 4 pCi/L.

LEAD-BASED PAINT INVESTIGATION

Part 1: Identifying Information

The following lead-based paint (LBP) investigation was conducted at the Old County Courthouse in Santa Fe, New Mexico. It was conducted in an effort to identify the presence of lead-based paint and or lead-containing materials.

The Public Works office of Santa Fe County contracted Acme Environmental Inc. to conduct the investigation of the designated property.

Debbie Real an EPA certified Lead-based Paint Risk Assessor performed this investigation on October 9, 2013. Sampling was performed in substantial compliance with the jointly published EPA/HUD protocols for housing. Paint was sampled by x-ray fluorescence (XRF).

Part II: Environmental Results and Analyses

XRF Testing Report

Based on sampling, only brass hand rails and base plates (unpainted) indicated lead content. No other materials sampled were identified as having lead-based paint.

> ***LEAD-BASED PAINT (LBP)*** is defined by HUD and the EPA as paint containing lead in amounts greater than or equal to 1.0 mg/cm^2 lead when analyzed by XRF.

Lead ***containing*** paint *is* present within the remainder of the facility. However, the lead content is very low according to the XRF. It is reasonable to believe that lead content is insignificant relative to exposure potential when standard construction methods are utilized

> ***LEAD-CONTAINING PAINT (PAINT WITH LEAD BUT NOT CONSIDERED LEAD-BASED PAINTED)***
> OSHA regulates occupational exposure to lead containing materials during construction activities. Any occurrence of lead in construction materials could be potentially hazardous during activities that may impact a lead containing material.

XRF SAMPLING PROTOCOL

The *Radiation Monitoring Devices LPA-1™ XRF (X-Ray Fluorescence)* provides near instant results of lead content. Since this technique does not harm the sample in any way, it is considered a non-destructive testing method.

The instrument was operated in Quick Mode – The measurement time is determined by the LPA-1 Analyzer to achieve a 95% confidence in accordance with guidelines established by HUD and EPA.

Test results are classified on the data sheets, under HUD guidelines, into three categories: Positive (for lead-based paint), Inconclusive (for lead-based paint), and Negative (for lead-based paint). Note: Lead content may still be present in a Negatively classified sample.

For the purpose of this survey if any readings test inconclusive (0.9 to 1.2 mg/cm²) they will be reported as positive.

Operation of the *Radiation Monitoring Devices LPA-1™ XRF* was consistent with HUD and EPA documented methodologies and the Performance Characteristic Sheet.

Part III: Recommendations and Executive Summary

Lead painted materials

Based on sampling, Acme considers the following materials to contain significant lead;

All brass hand rails and base plates

These materials are fully salvageable and can be reclaimed or recycled with no compliance requirements regarding the disposal of lead.

XRF DATA SUMMARIES REPORT LEGEND

The following abbreviations are defined in context of the XRF data summaries that follow. Please note the wall location information. This is represented on the site plan and is essential in locating the areas that the samples were analyzed.

Read No. Reading Number Is the sequential number of the actual sample.

Lead(mg/cm^2) The reading as analyzed by the XRF. A reading of 1.0 mg/cm^2 is considered *Positive* for Lead-based Paint by the Environmental Protection Agency.

Rm No. Room Number is an arbitrary number assigned to the specific room where samples are collected.

Room Name Room identifier established by the inspector based on best judgment.

Wall Walls are identified by letters. The "A" wall is generally the main entry side of the building. Walls are then identified in a clockwise fashion.

Structure Establishes the general height at which the wall sample was taken. This might be "baseboard" height, or "Chair rail" height. This also may identify the specific component that was sampled.

Component This is the identified part of a component, such as a window sill or a door casing.

Location "U" for upper or "L" for lower. "Lft" for left, "Rgt" for right, "Ctr" for center.

Condition Paint condition is identified as "I" for intact, "F" for fair and "P" for poor.

XRF Mode Function mode of the XRF. "Std." Is standard mode. "QM" is quick mode. "TC" is time corrected. Quick mode is the preferred method for speed and reliability.

Substrate This is the suspected construction material.

Color Inspector's judgment

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Inspection Date:	10/09/13
Report Date:	10/11/2013
Abatement Level:	1.0
Report No.	10/09/13 13:07
Total Readings:	125
Job Started:	10/09/13 13:07
Job Finished:	10/09/13 16:32

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.4	Std
2		CALIBRATION								0.2	Std
3		CALIBRATION								0.0	Std
									Average =	0.2	
4		CALIBRATION								1.0	Std
5		CALIBRATION								1.1	Std
6		CALIBRATION								0.9	Std
									Average =	1.0	
7	001	Main Entry	B	Partition	Ctr		I	Wood	Red	0.2	QM
8	001	Main Entry	B	Partition	Ctr		I	Drywall	White	0.0	QM
9	001	Main Entry	D	Wall	U Ctr		I	Plaster	White	-0.2	QM
10	001	Main Entry	A	Closet	Ctr	Door	I	Wood	White	-0.1	QM
11	001	Main Entry	A	Closet	Rgt	Door Casing	I	Metal	White	0.0	QM
12	002	Rm 190	A	Wall	U Ctr		I	Plaster	Pink	0.0	QM
13	002	Rm 190	C	Door	Ctr	Rgt casing	I	Metal	Tan	0.1	QM
14	003	Wmns Rm	A	Wall	U Ctr		I	Drywall	White	0.0	QM
15	003	Wmns Rm	A	Ceiling			I	Drywall	White	-0.1	QM
16	004	Rm 140	C	Wall	U Ctr		I	Plaster	White	0.0	QM
17	005	Rm 191	D	Door	Ctr	U Lft	I	Wood	Tan	0.0	QM
18	005	Rm 191	D	Door	Ctr	Rgt casing	I	Metal	Tan	-0.1	QM
19	006	Rm 143	A	Wall	U Ctr		I	Drywall	White	-0.1	QM
20	006	Rm 143	C	Door	Ctr	Rgt casing	I	Metal	Brown	-0.1	QM
21	007	Rm 144	B	Wall	U Ctr		I	Drywall	White	0.0	QM
22	007	Rm 144	C	Closet	Ctr	Door	I	Wood	Beige	-0.1	QM
23	007	Rm 144	C	Closet	Lft	Door Casing	I	Metal	Beige	-0.1	QM
24	007	Rm 144	B	Wall	U Ctr		I	Drywall	White	-0.2	QM
25	007	Rm 144	C	Closet	Rgt	Door Casing	I	Metal	Brown	0.0	QM
26	007	Rm 144	A	Wall	U Ctr		I	Drywall	White	-0.1	QM
27	007	Rm 144	C	Door	Ctr	Lft casing	I	Metal	Brown	-0.1	QM
28	007	Rm 144	C	Door	Ctr	U Lft	I	Wood	Varnish	0.0	QM
29	008	Rm 134	A	Wall	U Ctr		I	Drywall	Yellow	0.0	QM
30	008	Rm 134	C	Closet	Ctr	Door	I	Wood	Yellow	0.0	QM
31	008	Rm 134	C	Closet	Rgt	Door Casing	I	Metal	Yellow	0.3	QM
32	009	Rm 130	C	Wall	U Ctr		I	Plaster	White	-0.1	QM
33	010	Rm 103	D	Wall	U Ctr		I	Drywall	White	-0.1	QM
34	010	Rm 103	B	Door	Ctr	Rgt casing	I	Metal	Beige	0.0	QM
35	011	Rm 108	A	Wall	U Ctr		I	Drywall	White	-0.1	QM
36	012	Snack Bar	C	Wall	U Ctr		I	Drywall	Beige	-0.1	QM
37	012	Snack Bar	A	Ceiling			I	Drywall	White	0.3	QM
38	012	Snack Bar	B	Door	Ctr	Rgt casing	I	Metal	Gray	-0.1	QM
39	013	Spec.Serv.	A	Wall	U Ctr		I	Drywall	White	0.2	QM
40	013	Spec.Serv.	D	Door	Ctr	Rgt casing	I	Wood	White	0.0	QM
41	013	Spec.Serv.	D	Shelf	Ctr		I	Wood	Beige	-0.2	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
42	014	Rm 178	C	Wall	U	Ctr	I	Plaster	White	-0.1	QM
43	014	Rm 178	B	Door		Ctr Rgt casing	I	Metal	Brown	0.0	QM
44	015	Fileroom	C	Wall	U	Ctr	I	Drywall	White	0.2	QM
45	015	Fileroom	D	Door		Ctr Lft casing	I	Metal	Cream	0.1	QM
46	016	Rm 170	C	Wall	U	Ctr	I	Drywall	White	-0.3	QM
47	016	Rm 170	B	Door		Ctr Rgt casing	I	Metal	Cream	-0.1	QM
48	017	Hallway	C	Wall	U	Lft	I	Plaster	White	0.0	QM
49	017	Hallway	C	Wall	L	Lft	I	Plaster	Red	0.1	QM
50	017	Hallway	C	Wall	L	Lft	I	Plaster	Brown	0.0	QM
51	017	Hallway	C	Wall	L	Lft	I	Plaster	Tan	-0.2	QM
52	018	Rm 150	A	Wall	U	Ctr	I	Drywall	White	-0.2	QM
53	019	Rm 158	B	Wall	U	Ctr	I	Plaster	Tan	-0.1	QM
54	019	Rm 158	A	Door		Ctr Lft casing	I	Metal	Brown	0.3	QM
55	020	Rm 156	D	Wall	U	Ctr	I	Plaster	White	-0.1	QM
56	021	Rm 154	B	Wall	U	Ctr	I	Drywall	White	-0.1	QM
57	021	Rm 154	D	Closet		Ctr Door	I	Wood	White	0.1	QM
58	021	Rm 154	D	Closet		Rgt Door Casing	I	Metal	White	-0.1	QM
59	022	Rm 164	C	Wall	U	Ctr	I	Drywall	White	-0.1	QM
60	022	Rm 164	D	Closet		Ctr Door	I	Wood	White	-0.1	QM
61	022	Rm 164	D	Closet		Lft Door Casing	I	Metal	White	-0.1	QM
62	023	Rm 162	D	Wall	U	Ctr	I	Drywall	White	-0.1	QM
63	024	Jail	A	Wall	U	Rgt	I	Plaster	White	0.3	QM
64	024	Jail	C	Bars		Ctr	I	Steel	White	0.2	QM
65	024	Jail	D	Door		Ctr Lft casing	I	Metal	White	-0.1	QM
66	017	Hallway	C	Window		Ctr Lft casing	I	Metal	White	-0.1	QM
67	017	Hallway	A	Door		Ctr Lft casing	I	Wood	White	0.0	QM
68	017	Hallway	A	Door		Ctr Header	I	Wood	White	0.3	QM
69	017	Hallway	A	Railing		Ctr Balusters	I	Metal	Black	0.3	QM
70	017	Hallway	A	Railing		Ctr Railing	I	Metal	Gold	5.3	QM
71	017	Hallway	A	Railing		Ctr L railing	I	Metal	Gold	>9.9	QM
72	025	2nd Hall	B	Wall	U	Ctr	I	Plaster	White	-0.1	QM
73	026	Rm 270B	C	Wall	U	Ctr	I	Drywall	White	0.0	QM
74	026	Rm 270B	B	Door		Ctr Rgt casing	I	Metal	White	0.1	QM
75	027	Jury	B	Wall	U	Ctr	I	Drywall	Brown	-0.2	QM
76	028	Rm 210	C	Wall	U	Ctr	I	Plaster	White	-0.1	QM
77	029	Rm 254	C	Wall	U	Ctr	I	Drywall	Pink	-0.2	QM
78	029	Rm 254	D	Closet		Ctr Door	I	Wood	Pink	0.0	QM
79	029	Rm 254	D	Closet		Rgt Door Casing	I	Metal	Pink	0.1	QM
80	029	Rm 254	D	Door		Ctr Lft casing	I	Metal	Brown	0.0	QM
81	030	Rm 253	D	Wall	U	Ctr	I	Drywall	White	-0.2	QM
82	031	Rm 252	C	Wall	U	Ctr	I	Plaster	White	-0.1	QM
83	032	Rm 259	B	Wall	U	Ctr	I	Drywall	White	-0.1	QM
84	032	Rm 259	A	Door		Ctr U Lft	I	Wood	White	-0.1	QM
85	032	Rm 259	A	Door		Ctr Lft casing	I	Metal	White	0.2	QM
86	033	Rm 220	D	Wall	U	Ctr	I	Drywall	White	0.1	QM
87	034	Rm 269	C	Wall	U	Ctr	I	Drywall	White	-0.1	QM
88	034	Rm 269	C	Chair rail		Ctr	I	Drywall	Red Line	-0.1	QM
89	035	Rm 213	D	Wall	U	Ctr	I	Drywall	White	-0.1	QM
90	035	Rm 213	A	Closet		Ctr Door	I	Metal	White	0.0	QM
91	035	Rm 213	A	Closet		Lft Door Casing	I	Metal	White	-0.2	QM
92	036	Rm 209	A	Wall	U	Ctr	I	Drywall	White	-0.1	QM
93	037	Rm 260	B	Wall	U	Ctr	I	Drywall	Pink	-0.2	QM
94	038	Rm 240	C	Wall	U	Ctr	I	Drywall	Pink	0.0	QM
95	039	Rm 238	D	Wall	U	Ctr	I	Drywall	Pink	0.3	QM
96	039	Rm 238	C	Door		Ctr Lft casing	I	Metal	Brown	-0.2	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
97	040	Rm 236	C	Wall	U Ctr		I	Drywall	White	-0.2	QM
98	041	Rm 244	C	Wall	U Ctr		I	Drywall	White	-0.1	QM
99	041	Rm 244	C	Closet	Ctr	Door	I	Wood	White	0.1	QM
100	041	Rm 244	C	Closet	Lft	Door Casing	I	Metal	White	-0.4	QM
101	041	Rm 244	A	Window	Ctr	Lft casing	I	Wood	White	-0.2	QM
102	042	Rm 200	C	Wall	U Ctr		I	Drywall	White	-0.3	QM
103	043	Rm 201	C	Wall	U Ctr		I	Drywall	Yellow	0.1	QM
104	043	Rm 201	C	MirrorCase	Ctr		I	Wood	Yellow	-0.2	QM
105	043	Rm 201	D	Fuse Box	Ctr		I	Metal	Red	-0.4	QM
106	044	Rm 200	A	Window	Ctr	Rgt casing	I	Metal	White	0.0	QM
107	001	Building	A	Wall	U Lft		I	Stucco	White	0.6	QM
108	001	Building	A	Wall	L Lft		I	Stucco	Red	-0.1	QM
109	001	Building	A	Wall	L Lft		I	Stucco	Brown	0.1	QM
110	001	Building	A	Column	Ctr	U column	I	Wood	White	-0.3	QM
111	001	Building	B	Window	Ctr	Lft casing	I	Metal	White	-0.1	QM
112	001	Building	B	Support	Ctr		I	Wood	White	0.0	QM
113	001	Building	D	Door	Ctr	U Lft	I	Metal	White	0.3	QM
114	001	Building	D	Door	Ctr	Lft casing	I	Metal	White	0.1	QM
115	001	Building	D	Post	Ctr		I	Wood	White	0.2	Std
116	001	Building	D	Post	Ctr		I	Wood	White	-0.1	Std
117	001	Building	D	Post	Ctr		I	Wood	White	0.3	Std
									Average =	0.1	
118	025	2nd Hall	A	Ceiling			I	Wood	White	0.0	QM
119	025	2nd Hall	A	Support	Ctr		I	Wood	White	0.2	QM
120		CALIBRATION								-0.1	Std
121		CALIBRATION								0.0	Std
122		CALIBRATION								0.0	Std
									Average =	-0.0	
123		CALIBRATION								0.3	Std
124		CALIBRATION								1.0	Std
125		CALIBRATION								0.8	Std
									Average =	0.7	

---- End of Readings ----

ASBESTOS INSPECTION

Part IV: Introduction

The Public Works office of Santa Fe County contracted Acme Environmental, Inc. (Acme) to conduct an Asbestos Survey at the Old County Courthouse Santa Fe, New Mexico. The survey was conducted on October 9, 2013. Acme conducted the survey in accordance with EPA National Emission Standard for Hazardous Air Pollutants (NESHAP).

Acme performed asbestos bulk sampling in substantial compliance with the established 40 CFR 763 sampling protocol and requirements set forth in OSHA's 29 CFR 1926.1101. Brett Engel (US EPA AHERA-accredited Asbestos Inspector) conducted the survey.

Part V: Property Information

All accessible suspect asbestos-containing building materials were the focus of the survey to accommodate future renovation/demolition activities.

The two story facility with flat roof has a stucco exterior. Finished plaster systems make up the walls. Vinyl flooring is utilized in some of the facility. Carpet on concrete is present in most other areas. Suspended ceilings are present. No visible fireproofing was observed. Thermal system insulation is present on steam pipes.

Part VI: Asbestos-Containing Materials (ACM)

ALL QUANTITIES ARE ESTIMATES

	Vinyl Flooring	Fire Doors	Roofing Sealant/Asphalt (bottom layer)
PHOTOS	 Estimated quantity 1100 sf  Estimated quantity 900 sf	**Fire doors are assumed asbestos containing** **No Photos** Estimated 20 (contractor must confirm)	  Estimated quantity Unknown

Part VII: Asbestos Bulk Sample Analysis

Bulk samples were collected and submitted to an independent laboratory to be analyzed using Polarized Light Microscopy (PLM) in accordance with the U.S. Environmental Protection Agency "Method for the Determination of Asbestos in Bulk Samples" (EPA 600/R-93/116, July 1993). Crisp Analytical Laboratories, Carrollton, TX performed the analysis. Crisp is accredited for asbestos analysis under the National Voluntary Laboratory Accreditation Program (NVLAP), accreditation #200349-0.

Laboratory results can be found in the Appendix of this report.

Analysis Method: The analytical method chosen to identify asbestos within the bulk sample was the Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600/R-93/116). Preparation Method: Hydrochloric Acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ASBESTOS DATA

Results for asbestos content as reported in the comprehensive inspection report are interpreted in the following manner.

Samples were collected after the accredited inspector inventoried suspect materials. These materials were identified as to their homogeneity, specifically; materials that are considered the same, for example floor tile or ceiling plaster are sampled in a representative manner. That is, a specified number of samples are collected from each homogenous material. This is dictated by the EPA sampling rules.

These homogenous materials are grouped for analysis by the laboratory. If a single sample of a homogenous material is found to contain greater than 1% asbestos, then that homogenous material is considered asbestos containing.

Part VIII: Conclusions

Based on the analytical data reported to Acme derived from the bulk samples collected, the following homogeneous materials *are considered ACM* in the facility.

- Vinyl tile (not mastic) in select bathroom and closet locations (see drawings). Total of approximately 2000 sq ft.
- Roof sealant/asphalt. The quantity is difficult to estimate without significantly damaging the roof. If the sealant was used only at seams, the amount is significantly lower than the entire roof surface area. Further evaluation is recommended before abatement/demolition. However, it is prudent to assume the entire roof is asbestos containing. Total of approximately 25,000 sq ft.
- Fire doors are assumed to be asbestos containing.

Based on the analytical data reported to Acme derived from the bulk samples collected, the following homogeneous materials ***are NOT considered ACM*** in the facility.

- Plaster
- Vinyl floor tile and mastic (not otherwise noted as ACM)
- Ceiling tile
- Window caulking and glazing
- Exterior stucco
- Thermal system insulation
- Cove base
- Composite roof material

Project Report Limitations

Note: Materials identified by Acme were estimated quantities. Licensed contractors should conduct visual inspections to determine actual materials, quantities and cost estimates for abatement purposes. Acme attempted to inspect all suspect asbestos-containing building materials observed during this survey; other suspect materials may still exist in areas not readily accessible or identifiable.

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

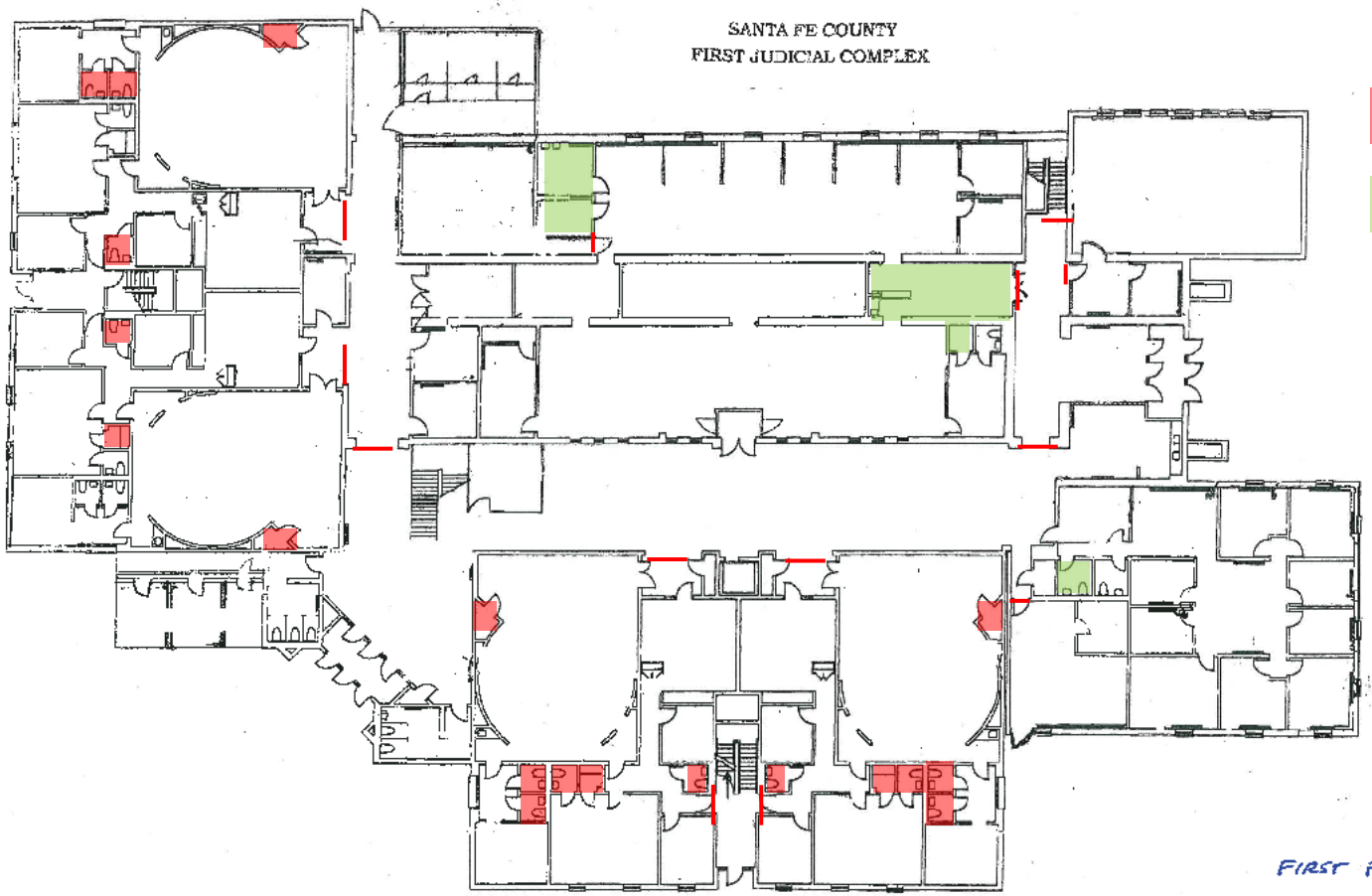
Acme's opinions and recommendations regarding environmental conditions, as presented in this report, are based on visual inspection and limited sampling only. The samples collected and used for testing, and the observations made are believed to be representative of the area(s) evaluated.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of activities at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme has no control.

This documents intended use is only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Acme should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the clients. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

Appendix



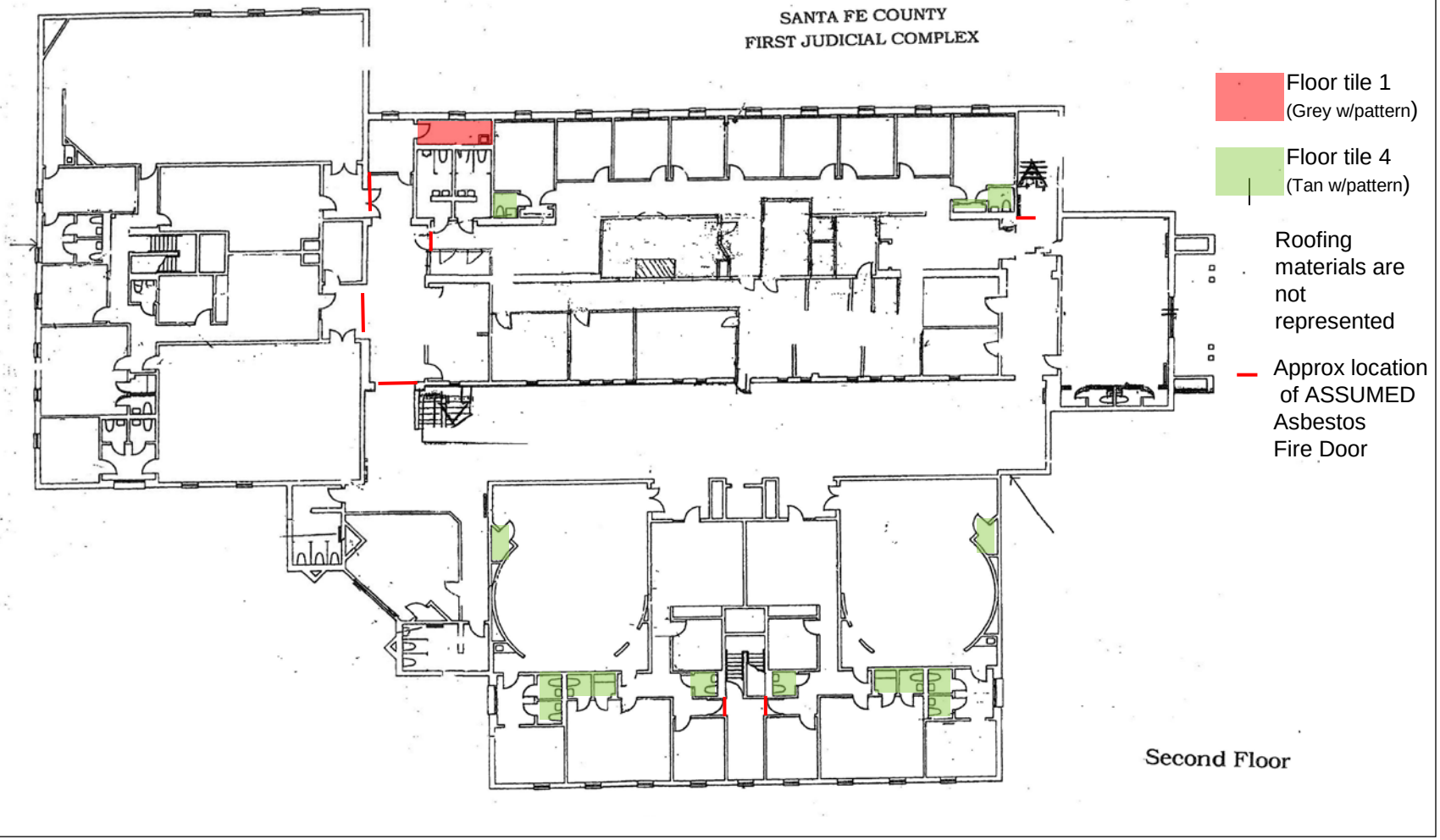
Generalized Site Map

Old County Court House
Santa Fe, NM

N
W
E
S

Drawing Not To Scale

ACME
ENVIRONMENTAL
3816 CARLISLE NE | ALBUQUERQUE, NM | 87107



Generalized Site Map

Old County Court House
Santa Fe, NM

N
W E
S

Drawing Not To Scale

ACME
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CAU3109847

ACME ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: ***Acme Environmental, Inc.***

Project Name/No.: ***13-161 Old Courthouse***

Project Location: ***Santa Fe, NM***

Sampled by (print): **Brett Engel**

Sampled by (sign):

Sample Date: **10/9/13**

Page 1 of 1

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
01FT1	*Grey w/ptn Floor tile*		*Misc*	*NF*		*PLM*			
02FT1	*Grey w/ptn Floor tile*		*Misc*	*NF*		*PLM*			
03FT1	*Grey w/ptn Floor tile*		*Misc*	*NF*		*PLM*			
04FT2	*White w/red bl ptn Floor tile*		*Misc*	*NF*		*PLM*			
05FT2	*White w/red bl ptn Floor tile*		*Misc*	*NF*		*PLM*			
06FT2	*White w/red bl ptn Floor tile*		*Misc*	*NF*		*PLM*			
07FT3	*White w/blu ptn floor tile*		*Misc*	*NF*		*PLM*			
08FT3	*White w/blu ptn floor tile*		*Misc*	*NF*		*PLM*			
09FT3	*White w/blu ptn floor tile*		*Misc*	*NF*		*PLM*			
10FT4	*Tan w/ptn floor tile*		*Misc*	*NF*		*PLM*			
11FT4	*Tan w/ptn floor tile*		*Misc*	*NF*		*PLM*			
12FT4	*Tan w/ptn floor tile*		*Misc*	*NF*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***
NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: ☒ **Standard (3-5 day)**

Relinquished by: **Date/time:** 10/10/13 6pm **Received by:** **Date/time:** 10/11/13 10:30am

3816 Carlisle NE Albuquerque, NM 87107 (505)872-2263 BulkSampleCOC.DOC

CAL13109847

ACME ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: *Acme Environmental, Inc.*

Project Name/No.: *13-161 Old Courthouse*

Project Location: *Santa Fe, NM*

Sampled by (print): Brett Engel

Sampled by (sign):

Sample Date: 10/9/13

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
13FT5	Cream w/ptn floor tile		Misc	NF		PLM			
14FT5	Cream w/ptn floor tile		Misc	NF		PLM			
15FT5	Cream w/ptn floor tile		Misc	NF		PLM			
16FT6	Lt Blue Floor tile		Misc	NF		PLM			
17FT6	Lt Blue Floor tile		Misc	NF		PLM			
18FT6	Lt Blue Floor tile		Misc	NF		PLM			
19FT7	Brown floor tile		Misc	NF		PLM			
20FT7	Brown floor tile		Misc	NF		PLM			
21FT7	Brown floor tile		Misc	NF		PLM			
22FT8	White floor tile		Misc	NF		PLM			
23FT8	White floor tile		Misc	NF		PLM			
24FT8	White floor tile		Misc	NF		PLM			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***

NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: ☒ **Standard (3-5 day)**

Relinquished by:

Date/time: 10/10/13

Received by:

Date/time: 10/11/13 10:30am

CAL13109847

ACME ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: ***Acme Environmental, Inc.***

Project Name/No.: ***13-161 Old Courthouse***

Project Location: ***Santa Fe, NM***

Sampled by (print): **Brett Engel**

Sampled by (sign):

Sample Date: 10/9/13

Page 3 of 7

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
25FT9	*Dk brown floor tile*		*Misc*	*NF*		*PLM*			
26FT9	*Dk brown floor tile*		*Misc*	*NF*		*PLM*			
27FT9	*Dk brown floor tile*		*Misc*	*NF*		*PLM*			
28FT10	*Grey floor tile*		*Misc*	*NF*		*PLM*			
29FT10	*Grey floor tile*		*Misc*	*NF*		*PLM*			
30FT10	*Grey floor tile*		*Misc*	*NF*		*PLM*			
31FT11	*Black tile*		*Misc*	*NF*		*PLM*			
32FT11	*Black tile*		*Misc*	*NF*		*PLM*			
33FT11	*Black tile*		*Misc*	*NF*		*PLM*			
34FT12	*White tile*		*Misc*	*NF*		*PLM*			
35FT12	*White tile*		*Misc*	*NF*		*PLM*			
36FT12	*White tile*		*Misc*	*NF*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***
NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: ☒ **Standard (3-5 day)**

Relinquished by: **Date/time:** 10/10/13 6pm **Received by:** **Date/time:** 10/11/13 10:30am

CAL13109847

ACME ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: ***Acme Environmental, Inc.***

Project Name/No.: ***13-161 Old Courthouse***

Project Location: ***Santa Fe, NM***

Sampled by (print): **Brett Engel**

Sampled by (sign):

Sample Date: 10/9/13

Page 4 of 4

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
37FT13	*Pink tile*		*Misc*	*NF*		*PLM*			
38FT13	*Pink tile*		*Misc*	*NF*		*PLM*			
39FT13	*Pink tile*		*Misc*	*NF*		*PLM*			
40DW1	*Drywall system*		*Misc*	*NF*		*PLM*			
41DW1	*Drywall system*		*Misc*	*NF*		*PLM*			
42DW1	*Drywall system*		*Misc*	*NF*		*PLM*			
43DW1	*Drywall system*		*Misc*	*NF*		*PLM*			
44DW1	*Drywall system*		*Misc*	*NF*		*PLM*			
45P1	*Plaster Old bldg*		*Surf*	*NF*		*PLM*			
46P1	*Plaster Old bldg.*		*Surf*	*NF*		*PLM*			
47P1	*Plaster Old bldg.*		*Surf*	*NF*		*PLM*			
48P1	*Plaster Old bldg*		*Surf*	*NF*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***
NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: **Standard (3-5 day)**

Relinquished by: **Date/time:** 10/10/13 6PM **Received by:** **Date/time:** 10/11/13 10:30am

CAL13109847

ACME ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: ***Acme Environmental, Inc.***

Project Name/No.: ***13-161 Old Courthouse***

Project Location: ***Santa Fe, NM***

Sampled by (print): **Brett Engel**

Sampled by (sign):

Sample Date: 10/9/13

Page 5 of 7

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
49P1	*Plaster Old bldg*		*Surf*	*NF*		*PLM*			
50P1	*Plaster Old bldg*		*Surf*	*NF*		*PLM*			
51P1	*Plaster Old bldg*		*Surf*	*NF*		*PLM*			
52P2	*Plaster New bldg*		*Surf*	*NF*		*PLM*			
53P2	*Plaster New bldg.*		*Surf*	*NF*		*PLM*			
54P2	*Plaster New bldg.*		*Surf*	*NF*		*PLM*			
55P2	*Plaster New bldg.*		*Surf*	*NF*		*PLM*			
56P2	*Plaster New bldg.*		*Surf*	*NF*		*PLM*			
57CT1	*Ceiling tile (perp lg axis)*		*Misc*	*F*		*PLM*			
58CT1	*Ceiling tile (perp lg axis)*		*Misc*	*F*		*PLM*			
59CT1	*Ceiling tile (perp lg axis)*		*Misc*	*F*		*PLM*			
60CT2	*Ceiling tile (1x ptn)*		*Misc*	*F*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***
NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: ☒ **Standard (3-5 day)**

Relinquished by: **Date/time:** 10/10/13 6a **Received by:** **Date/time:** 10/11/13 10:30am

CAL13109847

ACME ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: ***Acme Environmental, Inc.***

Project Name/No.: ***13-161 Old Courthouse***

Project Location: ***Santa Fe, NM***

Sampled by (print): **Brett Engel**

Sampled by (sign):

Sample Date: 10/9/13

Page 6 of 7

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
61CT2	*Ceiling tile (1x ptn)*		*Misc*	*F*		*PLM*			
62CT2	*Ceiling tile (1x ptn)*		*Misc*	*F*		*PLM*			
63CT3	*Ceiling tile (rdm)*		*Misc*	*F*		*PLM*			
64CT3	*Ceiling tile (rdm)*		*Misc*	*F*		*PLM*			
64CT3	*Ceiling tile (rdm)*		*Misc*	*F*		*PLM*			
65CT4	*Ceiling tile (coarse)*		*Misc*	*F*		*PLM*			
66CT4	*Ceiling tile (coarse)*		*Misc*	*F*		*PLM*			
67CT4	*Ceiling tile (coarse)*		*Misc*	*F*		*PLM*			
68STU1	*Ext stucco*		*Surf*	*F*		*PLM*			
69STU1	*Ext stucco*		*Surf*	*F*		*PLM*			
70STU1	*Ext stucco*		*Surf*	*F*		*PLM*			
71STU1	*Ext stucco*		*Surf*	*F*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***

NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: ☒ **Standard (3-5 day)**

Relinquished by: **Date/time:** 10/10/13 6pm **Received by:** **Date/time:** 10/11/13 10:30am

CAL13109847

ACME ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: ***Acme Environmental, Inc.***

Project Name/No.: ***13-161 Old Courthouse***

Project Location: ***Santa Fe, NM***

Sampled by (print): **Brett Engel**

Sampled by (sign):

Sample Date: 10/9/13

Page 1 of 1

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
72STU1	*Ext stucco*		*Surf*	*F*		*PLM*			
73STU1	*Ext stucco*		*Surf*	*F*		*PLM*			
74STU1	*Ext stucco*		*Surf*	*F*		*PLM*			
75WG	*Window glazing*		*Misc*	*NF*		*PLM*			
76WG	*Window glazing*		*Misc*	*NF*		*PLM*			
77WG	*Window glazing*		*Misc*	*NF*		*PLM*			
78WC	*Window caulking*		*Misc*	*NF*		*PLM*			
79WC	*Window caulking*		*Misc*	*NF*		*PLM*			
80WC	*Window caulking*		*Misc*	*NF*		*PLM*			
81TSI	*Pipe fitting*		*TSI*	*NF*		*PLM*			
82TSI	*Pipe fitting*		*TSI*	*NF*		*PLM*			
83TSI	*Pipe fitting*		*TSI*	*NF*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***

NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: ☐ **Standard (3-5 day)**

Relinquished by: **Date/time:** 10/10/13 **Received by:** **Date/time:** 10/11/13 10:30

(AC13109847

ACME
ENVIRONMENTAL

BULK SAMPLE CHAIN OF CUSTODY

Client: ***Acme Environmental, Inc.***

Project Name/No.: ***13-161 Old Courthouse***

Project Location: ***Santa Fe, NM***

Sampled by (print): **Brett Engel**

Sampled by (sign):

Sample Date: **10/9/13**

Page 3 of 4

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
84TSI	*Pipe fitting*		*TSI*	*NF*		*PLM*			
85TSI	*Pipe fitting*		*TSI*	*NF*		*PLM*			
86RS	*Roof sealant*	*Top layer*	*Misc*	*NF*		*PLM*			
87RS	*Roof sealant*		*Misc*	*NF*		*PLM*			
88RS	*Roof sealant*		*Misc*	*NF*		*PLM*			
89RS2	*Roof sealant*	*Bottom layer*	*Misc*	*NF*		*PLM*			
90RS2	*Roof sealant*		*Misc*	*NF*		*PLM*			
91RS2	*Roof sealant*		*Misc*	*NF*		*PLM*			
92ROOF	*Roof*		*Misc*	*NF*		*PLM*			
93ROOF	*Roof*		*Misc*	*NF*		*PLM*			
94ROOF	*Roof*		*Misc*	*NF*		*PLM*			
95CB1	*Brown cove base*		*Misc*	*NF*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***
NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: ☑ **Standard (3-5 day)**

Relinquished by: **Date/time:** 6:00 10/10/13 **Received by:** **Date/time:** 10/11/13 10:30am

ACME ENVIRONMENTAL

CAL13109847

BULK SAMPLE CHAIN OF CUSTODY

Client: *Acme Environmental, Inc.*

Project Name/No.: *13-161 Old Courthouse*

Project Location: *Santa Fe, NM*

Sampled by (print): Brett Engel

Sampled by (sign):

Sample Date: 10/9/13

Page 1 of 9

Sample Number	Component	Sample Location	Material Type (Misc., Surf, Tsi)	F/NF	Est. Qty.	Analysis Type	1st Results	2nd Results	Comments
96CB2	*Red cove base*		*Misc*	*NF*		*PLM*			
97CB3	*Violet cove base*		*Misc*	*NF*		*PLM*			
98CB4	*Grey cove base*		*Misc*	*NF*		*PLM*			
99CB5	*Dk cove base*		*Misc*	*NF*		*PLM*			
100CB6	*Dk Blue cove base*		*Misc*	*NF*		*PLM*			
101CB7	*Blue Cove base*		*Misc*	*NF*		*PLM*			
102 CB8	*Pink cove base*		*Misc*	*NF*		*PLM*			

Special Instructions To Laboratory: ***POSITIVE STOP*** ***Point count (except floor tile) between 1-10% email results***
NEW EMAIL *acmebrettengel@GMAIL.com*

Turn around time requested: X **Standard (3-5 day)**

Relinquished by:

Date/time: 10/10/13 6:00

Received by:

Date/time: 10/11/13 10:30

CA Labs
Dedicated to Quality

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Acme Environmental
3816 Carlisle NE
Albuquerque, NM 87107

Attn: David Paez
Customer Project: 13-161, Old Courthouse
Reference #: CAL13109847NT Date: 10/16/13

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

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Crisp Analytical, L.L.C.
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Carrollton, TX 75006
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Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: 13-161, Old Courthouse **CA Labs Project #:** CAL13109847NT

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
01FT1	*01FT 1-3*	*black streaked gray floor tile*	***3% Chrysotile***	***black streaked gray floor tile***
10FT4	*10FT 4-1*	*tan floor tile*	***3% Chrysotile***	***tan floor tile***
89RS2	*89RS 2-1*	*black tar*	***5% Chrysotile***	***black tar***

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

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Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** David Paez
Acme Environmental
3816 Carlisle NE
Albuquerque, NM 87107

Phone # 505-872-2263
Fax # 505-889-8261

Customer Project:
13-161, Old Courthouse
Turnaround Time:
3 Day

CA Labs Project #:
CAL13109847NT

Date: 10/16/13
Samples Received: 10/11/13 10:30am
Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
01FT1		*01FT 1-1*	*gray streaked gray floor tile*	*y*	***None Detected***		100% qu,ca
		01FT 1-2	*black mastic with black felt*	*n*	***None Detected***	63% ce	37% mi,ma
		01FT 1-3	*black streaked gray floor tile*	*y*	***3% Chrysotile***		97% qu,ca
02FT1		*02FT 1-1*	*black streaked gray floor tile*		*Positive Stop*		
		02FT 1-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
03FT1		*03FT 1-1*	*black streaked gray floor tile*		*Positive Stop*		
		03FT 1-2	*tan mastic*	*y*	***None Detected***		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Phone # 505-872-2263
Fax # 505-889-8261

Customer Project:
13-161, Old Courthouse
Turnaround Time:
3 Day

CA Labs Project #:
CAL13109847NT

Date: 10/16/13
Samples Received: 10/11/13 10:30am
Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
04FT2		*04FT 2-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		04FT 2-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
05FT2		*05FT 2-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		05FT 2-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
06FT2		*06FT 2-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		06FT 2-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
07FT3		*07FT 3-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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9. < 1% Result point counted positive
10. TEM analysis suggested

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1929 Old Denton Road
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Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** David Paez
Acme Environmental
3816 Carlisle NE
Albuquerque, NM 87107

Phone # 505-872-2263
Fax # 505-889-8261

Customer Project:
13-161, Old Courthouse
Turnaround Time:
3 Day

CA Labs Project #:
CAL13109847NT

Date: 10/16/13
Samples Received: 10/11/13 10:30am
Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		07FT 3-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
08FT3		*08FT 3-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		08FT 3-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
09FT3		*09FT 3-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		09FT 3-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
10FT4		*10FT 4-1*	*tan floor tile*	*y*	***3% Chrysotile***		97% qu,ca
	4,5	*10FT 4-2*	*tan mastic*				

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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2. Fire Damage no significant fiber damages effecting fibrous percentages
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5. Not enough sample to analyze
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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
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11FT4		*11FT 4-1*	*tan floor tile*		*Positive Stop*		
	4,5	*11FT 4-2*	*tan mastic*				
12FT4		*12FT 4-1*	*tan floor tile*		*Positive Stop*		
	4,5	*12FT 4-2*	*tan mastic*				
13FT5		*13FT 5-1*	*tan floor tile*	*y*	***None Detected***		100% qu,ca
		13FT 5-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
14FT5		*14FT 5-1*	*tan floor tile*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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		14FT 5-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
15FT5		*15FT 5-1*	*tan floor tile*	*y*	***None Detected***		100% qu,ca
		15FT 5-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
16FT6		*16FT 6-1*	*blue floor tile*	*y*	***None Detected***		100% qu,ca
		16FT 6-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
17FT6		*17FT 6-1*	*blue floor tile*	*y*	***None Detected***		100% qu,ca
		17FT 6-2	*tan mastic*	*y*	***None Detected***		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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18FT6		*18FT 6-1*	*blue floor tile*	*y*	***None Detected***		100% qu,ca
		18FT 6-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
19FT7		*19FT 7-1*	*brown floor tile*	*y*	***None Detected***		100% qu,ca
		19FT 7-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
20FT7		*20FT 7-1*	*brown floor tile*	*y*	***None Detected***		100% qu,ca
		20FT 7-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
21FT7		*21FT 7-1*	*brown floor tile*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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		21FT 7-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
22FT8		*22FT 8-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		22FT 8-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
23FT8		*23FT 8-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		23FT 8-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
24FT8		*24FT 8-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		24FT 8-2	*tan mastic*	*y*	***None Detected***		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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25FT9		*25FT 9-1*	*brown floor tile*	*y*	***None Detected***		100% qu,ca
		25FT 9-2	*black mastic*	*y*	***None Detected***		100% mi,ma
26FT9		*26FT 9-1*	*brown floor tile*	*y*	***None Detected***		100% qu,ca
		26FT 9-2	*black mastic*	*y*	***None Detected***		100% mi,ma
27FT9		*27FT 9-1*	*brown floor tile*	*y*	***None Detected***		100% qu,ca
		27FT 9-2	*black mastic*	*y*	***None Detected***		100% mi,ma
28FT10		*28FT 10-1*	*gray floor tile*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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		28FT 10-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
29FT10		*29FT 10-1*	*gray floor tile*	*y*	***None Detected***		100% qu,ca
30FT10		*30FT 10-1*	*gray floor tile*	*y*	***None Detected***		100% qu,ca
		30FT 10-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
31FT11		*31FT 11-1*	*black floor tile*	*y*	***None Detected***		100% qu,ca
32FT11		*32FT 11-1*	*black floor tile*	*y*	***None Detected***		100% qu,ca
33FT11		*33FT 11-1*	*black floor tile*	*y*	***None Detected***		100% qu,ca

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34FT12		*34FT 12-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		34FT 12-2	*black mastic*	*y*	***None Detected***		100% mi,ma
35FT12		*35FT 12-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		35FT 12-2	*black mastic*	*y*	***None Detected***		100% mi,ma
36FT12		*36FT 12-1*	*white floor tile*	*y*	***None Detected***		100% qu,ca
		36FT 12-2	*black mastic*	*y*	***None Detected***		100% mi,ma
37FT13		*37FT 13-1*	*pink floor tile*	*y*	***None Detected***		100% qu,ca

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		37FT 13-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
		37FT 13-3	*white leveling compound*	*y*	***None Detected***		100% qu,ca
38FT13		*38FT 13-1*	*pink floor tile*	*y*	***None Detected***		100% qu,ca
		38FT 13-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
		38FT 13-3	*white leveling compound*	*y*	***None Detected***		100% qu,ca
39FT13		*39FT 13-1*	*pink floor tile*	*y*	***None Detected***		100% qu,ca
		39FT 13-2	*tan mastic*	*y*	***None Detected***		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

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12232 Industriplex, Suite 32
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Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** David Paez
Acme Environmental
3816 Carlisle NE
Albuquerque, NM 87107

Phone # 505-872-2263
Fax # 505-889-8261

Customer Project:
13-161, Old Courthouse
Turnaround Time:
3 Day

CA Labs Project #:
CAL13109847NT

Date: 10/16/13
Samples Received: 10/11/13 10:30am
Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		39FT 13-3	*white leveling compound*	*y*	***None Detected***		100% qu,ca
40DW1		*40DW 1-1*	*white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca
41DW1		*41DW 1-1*	*white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca
42DW1		*42DW 1-1*	*white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca
43DW1		*43DW 1-1*	*white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca
		43DW 1-2	*white drywall with brown paper*	*n*	***None Detected***	22% ce	78% qu,gy
44DW1		*44DW 1-1*	*white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
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Purchase Order #:

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45P1		*45P1-1*	*white surfaced white compound*	*n*	***None Detected***		100% mi,bi,ca
46P1		*46P1-1*	*white surfaced tan plaster*	*n*	***None Detected***		100% qu,bi,ca
47P1		*47P1-1*	*white surfaced tan plaster*	*n*	***None Detected***		100% qu,bi,ca
48P1		*48P1-1*	*white surfaced tan plaster*	*n*	***None Detected***		100% qu,bi,ca
49P1		*49P1-1*	*white surfaced tan plaster*	*n*	***None Detected***		100% qu,bi,ca
		49P1-2	*white drywall with brown paper*	*n*	***None Detected***	23% ce	77% qu,gy
50P1		*50P1-1*	*white surfaced tan plaster*	*n*	***None Detected***		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

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Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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13-161, Old Courthouse
Turnaround Time:
3 Day

CA Labs Project #:
CAL13109847NT

Date: 10/16/13
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Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
51P1		*51P1-1*	*white surfaced tan plaster*	*n*	***None Detected***		100% qu,bi,ca
52P2		*52P2-1*	*white surfaced tan plaster*	*n*	***None Detected***		100% qu,bi,ca
53P2		*53P2-1*	*white surfaced white finishing plaster*	*n*	***None Detected***		100% qu,bi,ca
		53P2-2	*brown plaster*	*y*	***None Detected***		100% qu,ca
54P2		*54P2-1*	*white surfaced white finishing plaster*	*n*	***None Detected***		100% qu,bi,ca
		54P2-2	*brown plaster*	*y*	***None Detected***		100% qu,ca
55P2		*55P2-1*	*white surfaced white finishing plaster*	*n*	***None Detected***		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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Turnaround Time:
3 Day

CA Labs Project #:
CAL13109847NT

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Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		55P2-2	*brown plaster*	*y*	***None Detected***		100% qu,ca
56P2		*56P2-1*	*white surfaced white finishing plaster*	*n*	***None Detected***		100% qu,bi,ca
57CT1		*57CT 1-1*	*white surfacing*	*y*	***None Detected***		100% bi
		57CT 1-2	*tan ceiling tile*	*y*	***None Detected***	36% ce 64% fg	
58CT1		*58CT 1-1*	*white surfacing*	*y*	***None Detected***		100% bi
		58CT 1-2	*tan ceiling tile*	*y*	***None Detected***	33% ce 67% fg	
59CT1		*59CT 1-1*	*white surfacing*	*y*	***None Detected***		100% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

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Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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3 Day

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CAL13109847NT

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Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		59CT 1-2	*tan ceiling tile*	*y*	***None Detected***	32% ce 68% fg	
60CT2		*60CT 2-1*	*white surfacing*	*y*	***None Detected***		100% bi
		60CT 2-2	*tan ceiling tile*	*y*	***None Detected***	34% ce 66% fg	
61CT2		*61CT 2-1*	*white surfacing*	*y*	***None Detected***		100% bi
		61CT 2-2	*tan ceiling tile*	*y*	***None Detected***	31% ce 69% fg	
62CT2		*62CT 2-1*	*white surfacing*	*y*	***None Detected***		100% bi
		62CT 2-2	*tan ceiling tile*	*y*	***None Detected***	35% ce 65% fg	

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot -other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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3 Day

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CAL13109847NT

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Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
63CT3		*63CT 3-1*	*white surfacing*	*y*	***None Detected***		100% bi
		63CT 3-2	*tan ceiling tile*	*y*	***None Detected***	32% ce 68% fg	
64CT3		*64CT 3-1*	*white surfacing*	*y*	***None Detected***		100% bi
		64CT 3-2	*tan ceiling tile*	*y*	***None Detected***	36% ce 64% fg	
65CT3		*65CT 3-1*	*white surfacing*	*y*	***None Detected***		100% bi
		65CT 3-2	*tan ceiling tile*	*y*	***None Detected***	31% ce 69% fg	
65CT4		*65CT 4-1*	*white surfacing*	*y*	***None Detected***		100% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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		65CT 4-2	*tan ceiling tile*	*y*	***None Detected***	30% ce 70% fg	
66CT4		*66CT 4-1*	*white surfacing*	*y*	***None Detected***		100% bi
		66CT 4-2	*tan ceiling tile*	*y*	***None Detected***	31% ce 69% fg	
67CT4		*67CT 4-1*	*white surfacing*	*y*	***None Detected***		100% bi
		67CT 4-2	*tan ceiling tile*	*y*	***None Detected***	34% ce 66% fg	
68STU1		*68ST U1-1*	*brown plaster*	*y*	***None Detected***		100% qu,ca
69STU1		*69ST U1-1*	*brown plaster*	*y*	***None Detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

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70STU1		*70ST U1-1*	*brown plaster*	*y*	***None Detected***		100% qu,ca
71STU1		*71ST U1-1*	*brown plaster*	*y*	***None Detected***		100% qu,ca
72STU1		*72ST U1-1*	*brown plaster*	*y*	***None Detected***		100% qu,ca
73STU1		*73ST U1-1*	*brown plaster*	*y*	***None Detected***		100% qu,ca
74STU1		*74ST U1-1*	*brown plaster*	*y*	***None Detected***		100% qu,ca
75WG		*75WG-1*	*white caulking*	*y*	***None Detected***		100% qu,bi,ca
76WG		*76WG-1*	*white caulking*	*y*	***None Detected***		100% qu,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Keith Malone
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

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10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
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Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** David Paez
Acme Environmental
3816 Carlisle NE
Albuquerque, NM 87107

Phone # 505-872-2263
Fax # 505-889-8261

Customer Project:
13-161, Old Courthouse
Turnaround Time:
3 Day

CA Labs Project #:
CAL13109847NT

Date: 10/16/13
Samples Received: 10/11/13 10:30am
Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
77WG		*77WG-1*	*white caulking*	*y*	***None Detected***		100% qu,bi,ca
78WC		*78WC-1*	*tan sealant*	*y*	***None Detected***		100% bi
79WC		*79WC-1*	*tan sealant*	*y*	***None Detected***		100% bi
80WC		*80WC-1*	*tan sealant*	*y*	***None Detected***		100% bi
81TSI		*81TSI-1*	*tan covering*	*y*	***None Detected***	71% fg	29% bi
		81TSI-2	*tan insulation*	*y*	***None Detected***	2% fg 9% ce	89% qu,bi,ca
82TSI		*82TSI-1*	*tan covering*	*y*	***None Detected***	68% fg	32% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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3 Day

CA Labs Project #:
CAL13109847NT

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Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		82TSI-2	*tan insulation*	*y*	***None Detected***	3% fg 11% ce	86% qu,bi,ca
83TSI		*83TSI-1*	*tan covering*	*y*	***None Detected***	70% fg	30% bi
		83TSI-2	*tan insulation*	*y*	***None Detected***	3% fg 15% ce	82% qu,bi,ca
84TSI		*84TSI-1*	*tan covering*	*y*	***None Detected***	85% fg	15% bi
		84TSI-2	*tan insulation*	*y*	***None Detected***	4% fg 12% ce	84% qu,bi,or
85TSI		*85TSI-1*	*tan covering*	*y*	***None Detected***	4% fg 10% ce	86% qu,bi,ca
86RS		*86RS-1*	*black tar*	*y*	***None Detected***	6% ce	94% qu,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

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Keith Malone
Analyst

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Polarized Light Asbestiform Materials Characterization

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3 Day

CA Labs Project #:
CAL13109847NT

Date: 10/16/13
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Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
87RS		*87RS-1*	*black tar*	*y*	***None Detected***	7% ce	93% qu,ma
88RS		*88RS-1*	*black tar*	*y*	***None Detected***	7% ce	93% qu,ma
89RS2		*89RS 2-1*	*black tar*	*y*	***5% Chrysotile***		95% qu,ma
90RS2		*90RS 2-1*	*black tar*		*Positive Stop*		
91RS2		*91RS 2-1*	*black tar*		*Positive Stop*		
92ROOF		*92ROOF-1*	*black tar with black felt*	*n*	***None Detected***	12% sy	88% qu,bi,ma
93ROOF		*93ROOF-1*	*black shingle with white gravel*	*y*	***None Detected***	6% sy	94% qu,bi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

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bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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CAL13109847NT

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Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
94ROOF		*94ROOF-1*	*black tar with black felt*	*n*	***None Detected***	7% sy	93% qu,bi,ma
95CB1		*95CB1-1*	*brown cove base*	*y*	***None Detected***		100% bi
		95CB1-2	*brown mastic*	*y*	***None Detected***	3% wo	97% mi,ma
96CB2		*96CB2-1*	*maroon cove base*	*y*	***None Detected***		100% bi
		96CB2-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
97CB3		*97CB3-1*	*purple cove base*	*y*	***None Detected***		100% bi
		97CB3-2	*tan mastic*	*y*	***None Detected***		100% mi,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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		97CB 3-3	*white compound*	*y*	***None Detected***		100% mi,ca
98CB4		*98CB 4-1*	*gray cove base*	*y*	***None Detected***		100% bi
		98CB 4-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
		98CB 4-3	*white compound*	*y*	***None Detected***		100% mi,ca
99CB5		*99CB 5-1*	*black cove base*	*y*	***None Detected***		100% bi
		99CB 5-2	*tan and brown mastic*	*n*	***None Detected***		100% mi,ma
100CB6		*100C B6-1*	*blue cove base*	*y*	***None Detected***		100% bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

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		100C B6-2	*tan mastic*	*y*	***None Detected***		100% mi,ma
101CB7		*101C B7-1*	*blue cove base*	*y*	***None Detected***		100% bi
		101C B7-2	*brown mastic*	*y*	***None Detected***		100% mi,ma
102CB8		*102C B8-1*	*pink cove base*	*y*	***None Detected***		100% bi
		102C B8-2	*tan and brown mastic*	*n*	***None Detected***	2% wo	98% mi,ma

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Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Origional asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP accreditation. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

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CAL13109847NT

Date: 10/16/13
Samples Received: 10/11/13 10:30am
Date Of Sampling: 10/09/13
Purchase Order #:

Sample #	Layer #	Analysts Physical Description of Subsample	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
89RS2	*89RS 2-1*	*black tar*	*y*	***3.75% Chrysotile***

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Approved Signatories:

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Radon Screening

Old County Courthouse
Santa Fe, NM

PREPARED BY:
ACME ENVIRONMENTAL, INC.
3816 CARLISLE NE ALBUQUERQUE, NM 87107
(505) 872-2263 FAX (505) 889-8261

ACME PROJECT NUMBER 13-161

Project Leader

Signed: Brett Engel **Date:** 10/22/13

Brett Engel
EPA Accredited Asbestos Inspector
EPA Certified Risk Assessor

Quality Control Reviewed:

Signed: Debbie Real **Date:** 10/22/13

Debbie Real,
EPA Certified Risk Assessor

Results of Radon Gas Screening

Acme utilized the PRO–LAB Professional Radon Gas Test Kit to screed the radon levels within two select areas of the Old Courthouse. The test method utilizes an advanced liquid scintillation, short–term detector, containing activated charcoal and silica gel desiccants. The desiccants are necessary to remove all moisture in order to make the test results accurate and reliable.

Two radon detectors each were placed in the lowest level of the building, the crawl space and the basement.

They remained in place for a period of 96 hours to allow time for the detectors to absorb enough radon to be analyzed according to EPA standards. The detectors were then sealed with the enclosed caps, and submitted for analysis by PRO–LAB in Weston, Florida.

The Basement sample indicated very low levels of Radon 0.3 picocuries per liter (pCi/L).

The Crawlspace sample indicated a Radon level of 6.6 pCi/L.

Recommendations

If the facility is to be reoccupied, it is advised to consider doing a long term test to determine the average radon concentrations over a longer period of time.

FOR RESIDENCES, THE EPA RECOMMENDS THAT REMEDIATION BE DONE IF THE RADON LEVEL IS 4 PICOCURIES (PCI/L) OR HIGHER.

Radon levels less than 4 pCi/L still pose a risk. It is recommended to take additional measurements because radon levels can vary with the seasons.

If measured Radon levels remain above the EPA recognized level of 4.0 pCi/L, a Certified Radon Remediation contractor should be consulted regarding abatement methods.

Project Report Limitations

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities.

Acme's opinions and recommendations regarding environmental conditions, as presented in this report, are based on visual inspection and limited sampling only. The samples collected and used for testing, and the observations made are believed to be representative of the area(s) evaluated.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of activities at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Acme has no control.

This documents intended use is only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Acme should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the clients. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

RADON ANALYSIS REPORT

PRO-LAB™
1675 North Commerce Parkway, Weston, FL 33326 (954) 384-4446

TEST ID NUMBER: 812137
DATE RECEIVED: 10/18/2013
REPORT DATE: 10/21/2013

BRETT ENGEL
3816 CARLISLE NE
ALBUQUERQUE, NM 87107

TEST LOCATION
100 CATRON
SANTA FE COUNTY
SANTA FE, NM

This is a confidential report of the radon samples that were submitted to our laboratory for measurements of radon-222 levels. The results represent the amount of radon that was present in the air during the time of sampling. The radon is measured in our laboratory using the liquid scintillation method (EPA 402-R-92-004). This report will not be released to anyone without your permission except as required by individual state laws and guidelines.

HERE ARE YOUR TEST RESULTS

VIAL #	ROOM TESTED	DATE OPENED	DATE CAPPED	DATE ANALYZED	RADON LEVEL
3273113	BASEMENT CRAWL SPACE	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 1:54 AM	6.7 pCi/L
3273658	BASEMENT CRAWL SPACE	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 2:05 AM	6.5 pCi/L

AVERAGE RADON LEVEL (average result of two tests) : **6.6 pCi/L**

THE EPA RECOMMENDS THAT YOU FIX YOUR HOME IF THE RADON LEVEL IS 4 PICOCURIES (PCI/L) OR HIGHER.
Please read the EPA Citizen's Guide to Radon at www.epa.gov/radon/pubs/citguide.html. Residents of New Jersey should read "Radon Testing and Mitigation: The Basics" at http://njradon.org/download/mitbas.pdf. Radon levels less than 4 pCi/L still pose a risk. You may want to take additional measurements because radon levels can vary with the seasons. You may also want to consider doing a long term test to determine the average radon concentrations over a longer period of time. If the radon level is 4.0 pCi/L or higher you should perform either a long-term test or a second short-term test. If the radon level is higher than 10 pCi/L you should perform a second short-term test immediately. **If you would like to learn how to lower your radon levels, or have other questions, please contact your state radon office at (505)827-1093.**

John D. Shane, PhD, RMS
NEHA-NRPP CERT# 106562RT
AARST ID#779

James E. McDonnell IV
NEHA-NRPP ID# 103456RT
AARST ID#558

PRO-LAB NEHA ID# 101461AL

program revision #: 031413

RADON ANALYSIS REPORT

PRO-LAB™
1675 North Commerce Parkway, Weston, FL 33326 (954) 384-4446

TEST ID NUMBER: 812136
DATE RECEIVED: 10/18/2013
REPORT DATE: 10/21/2013

BRETT ENGEL
3816 CARLISLE NE
ALBUQUERQUE, NM 87107

TEST LOCATION
100 CATRON
SANTA FE COUNTY
SANTA FE, NM

This is a confidential report of the radon samples that were submitted to our laboratory for measurements of radon-222 levels. The results represent the amount of radon that was present in the air during the time of sampling. The radon is measured in our laboratory using the liquid scintillation method (EPA 402-R-92-004). This report will not be released to anyone without your permission except as required by individual state laws and guidelines.

HERE ARE YOUR TEST RESULTS

VIAL #	ROOM TESTED	DATE OPENED	DATE CAPPED	DATE ANALYZED	RADON LEVEL
3248357	BASEMENT	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 1:32 AM	0.3 pCi/L
3248538	BASEMENT	Oct 13, 2013 10:00 AM	Oct 17, 2013 10:00 AM	Oct 19, 2013 1:43 AM	0.2 pCi/L

AVERAGE RADON LEVEL (average result of two tests) : **0.3 pCi/L**

THE EPA RECOMMENDS THAT YOU FIX YOUR HOME IF THE RADON LEVEL IS 4 PICOCURIES (PCI/L) OR HIGHER.
Please read the EPA Citizen's Guide to Radon at www.epa.gov/radon/pubs/citguide.html. Residents of New Jersey should read "Radon Testing and Mitigation: The Basics" at http://njradon.org/download/mitbas.pdf. Radon levels less than 4 pCi/L still pose a risk. You may want to take additional measurements because radon levels can vary with the seasons. You may also want to consider doing a long term test to determine the average radon concentrations over a longer period of time. If the radon level is 4.0 pCi/L or higher you should perform either a long-term test or a second short-term test. If the radon level is higher than 10 pCi/L you should perform a second short-term test immediately. **If you would like to learn how to lower your radon levels, or have other questions, please contact your state radon office at (505)827-1093.**

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