

PROJECT MANUAL



HISTORIC HOMES STABILIZATION AND REHABILITATION

ARCHITECT'S PROJECT NO. 1312 A1

BID DOCUMENTS
JULY 2, 2014

Fisher Heck
ARCHITECTS

915 S. St. Mary's Street ★ San Antonio, Texas 78205
tel 210.299.1500 fax 210.299.1622 ★ www.FisherHeck.com

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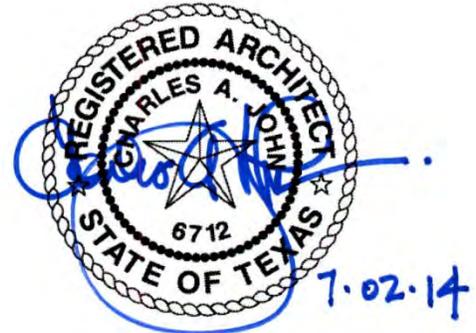
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II. CITY OF SAN ANTONIO PORTAL

REFERENCE THE CITY OF SAN ANTONIO WEBSITE BELOW FOR ALL THE PROJECT DOCUMENTS:

<http://www.sanantonio.gov/purchasing/biddingcontract/opportunities.aspx>

END OF SECTION

SECTION 00 3100

AVAILABLE PROJECT INFORMATION

PART 1 GENERAL

1.01 EXISTING CONDITIONS

- A. Certain information relating to existing conditions and structures is available to bidders but will not be part of the Contract Documents. A summary table provides an overview of the surveys, followed by a report per structure. Each structure has an independent survey, which consists of a Limited Asbestos Survey and Lead Based Paint Survey provided by Argus Environmental Consultants, LLC.
- B. Original copies are available as an attachment to this section as follows:
- C. Lead Based Paint and Asbestos Containing Material Summary Table: Entitled Hemisfair Historic Homes Conditions Assessment Project - Lead Based Paint (LBP) and Asbestos Containing Material (ACM) Survey, dated October 25, 2013. The table summarizes the following surveys:
 - 1. Limited Asbestos and Lead Based Paint Survey for the Sweeney House #301, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1308285ARG.
 - 2. Limited Asbestos and Lead Based Paint Survey for the Schultze House #307, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1308296ARG.
 - 3. Limited Asbestos and Lead Based Paint Survey for the Mayer/Halff House #308, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1308315ARG.
 - 4. Limited Asbestos and Lead Based Paint Survey for the Acosta/ Halff House #234, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1308286ARG.
 - 5. Limited Asbestos and Lead Based Paint Survey for the Smith House #251, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1309314ARG.
 - 6. Limited Asbestos and Lead Based Paint Survey for the Kampmann/ Solomon/ Halff House #245, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1308297ARG.
 - 7. Limited Asbestos and Lead Based Paint Survey for the Pereida House #204, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1308298ARG.
 - 8. Limited Asbestos and Lead Based Paint Survey for the Koehler House #247, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1309312ARG.
 - 9. Limited Asbestos and Lead Based Paint Survey for the Espinoza House #246, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1308299ARG.
 - 10. Limited Asbestos and Lead Based Paint Survey for the Amaya House #403, Hemisfair Park Historical Homes, Located in San Antonio, Texas. Argus Environmental Consultants Project No. 1309313ARG.
- D. Supplemental Pre-Renovation Asbestos Survey HemisFair Park Homes Acosta, Mayer, & Kampmann/Solomon House by STC Environmental Services Inc., STC Project No. 14044.
- E. Closeout Reports of Asbestos Abatement Activities
 - 1. Closeout Report of Asbestos Abatement Activities, Mayer/Halff house #308, Dated June 16, 2014, dated June 16, 2014.
 - 2. Closeout Report of Asbestos Abatement Activities, Acosta/Halff house #234, Dated June 16, 2014, dated June 16, 2014.

3. Closeout Report of Asbestos Abatement Activities, Kampmann/ Solomon/ Halff house #235, dated June 16, 2014.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

Hemisfair Historic Homes Conditions Assessment Project – Lead Based Paint (LBP) and Asbestos Containing Material (ACM) Surveys

Assess. Group No.	Current House Name*	Current Map #	Current House #	Area (sf)	Floors	Survey Date	LBP	ACM
1	Sweeney	2	301	2,000	1	8/16/13	Yes	No
	Acosta/Halff	7	234	3,500	3	8/16/13	Yes	Yes
2	Schultze	4	307	1,740	2	9/5/13	Yes	No
	Espinosa	13	246	1,300	1	9/3/13	Yes	No
	Kampmann/Solomon/Halff	6	235	4,500	2	9/4/13	Yes	Yes
	Pereida	11	204	1,450	1	9/3/13	Yes	No
	Mayer/Halff	5	308	4,980	3	9/18/13	Yes	Yes
3	Koehler	14	247	1,300	1	9/16/13	Yes	No
	Amaya	15	240	480	1	9/18/13	Yes	No
	Smith	16	251	670	1	9/16/13	Yes	No

*The Office of Historic Preservation (OHP) memorandum dated 10/2/13 explains that house names "Koehler" and "Espinosa" had previously been transposed.

September 13, 2013

Project No: 1308285ARG

Mr. Bruce Wik
Weston Solutions
70 NE Loop 410, Suite 600
Phone: (210) 308-4300
Email: Bruce.Wik@WestonSolutions.com

RE: LIMITED ASBESTOS AND LEAD BASED PAINT SURVEY FOR THE SWENEY HOUSE #301, HEMISFAIR PARK HISTORICAL HOMES, LOCATED IN SAN ANTONIO, TEXAS

Dear Mr. Wik:

Argus Environmental Consultants, LLC was contacted by Weston Solutions to perform a limited asbestos and lead based paint survey of the materials within the Sweney House #301 located in San Antonio, Texas.

The Scope of Services included in the limited Asbestos Survey consisted of the following:

- Visual evaluation of the interior finish materials.
- Identification of suspect asbestos containing materials (ACM) into homogeneous areas.
- Random collection of bulk samples from building materials that potentially contain asbestos.
- Laboratory analysis of building materials by a third party lab licensed by the Texas Department of State Health Services (DSHS).
- Analysis by Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Method 600.

The Scope of Services included in the limited Lead Based Paint Survey consisted of the following:

- Visual evaluation of the exterior and interior paint finishes.
- Identification of suspect paint into homogeneous areas.
- Random collection of bulk samples from paint that potentially contains lead.
- Laboratory analysis of paint by a third party lab certified by the EPA.
- Analysis by Flame Atomic Absorption using EPA Method SW846-7000B.

Argus Environmental's entire liability pertaining to this report and all work associated with it is limited to the INVOICED amount defined within the Scope of Services.



Indoor Air Quality

Mold

Asbestos

Lead

Industrial Hygiene

Clandestine Drug
Assessment &
Remediation

OSHA Compliance

Occupational &
Environmental
Health & Safety

Training

Expert Testimony

Pre-Purchase
Inspections

Environmental Site
Assessments-
Phase I, II & III

Environmental
Impact Assessments

Wetlands
Delineation

Property
Transaction
Due Diligence
Screening

Forensics

Thermal Imaging
Water Intrusion
Failure Analysis



HUB

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**Small
Women Owned
Business**

This report has been prepared for the exclusive use of the Weston Solutions, Inc. and the City of San Antonio and their assigned agents. It and all contents, findings, conclusions and recommendations expressed herein are not intended for any other purpose than that stated nor is intended to be used by any other party.

The asbestos survey was performed on August 16, 2013 by Mark D. Freemyer Texas DSHS Asbestos Consultant License #105695.

The lead based paint survey was performed on August 16, 2013 by Robert W. Miller Texas DSHS Lead Risk Assessor License #2070094.

The following asbestos homogenous areas were identified and bulk samples collected:

1. Grey plaster wall surface texture
2. Grey wall plaster
3. White plaster wall surface texture
4. White wall gypsum board
5. White ceiling joint compound
6. 2x4-foot grey ceiling acoustic tile
7. Black heating, ventilating and air conditioning (HVAC) duct mastic
8. White gypsum board
9. White wall joint compound
10. White wall surface texture
11. Cream and black thermal system insulation (TSI)

The following building painted surfaces were identified as potentially containing lead and were sampled:

1. Exterior – white
2. Exterior window and door frame – dark green
3. Exterior window and door – light green
4. Exterior porch ceiling – light blue
5. Interior wall – white/blue
6. Interior wall – white
7. Interior wood ceiling – blue
8. Interior window – yellow/green/beige
9. Interior walls – tan/purple/blue
10. Interior walls Room B – tan/blue/green/orange
11. Interior ceiling – rust/grey
12. Interior ceiling gypsum board – white

Conclusions:

Asbestos

ACM not regulated by the Texas DSHS were found by PLM in the following materials:

4. Gypsum board (<1% Chrysotile) – Sample #301-4AC; Room E
5. Ceiling joint compound (<1% Chrysotile) – Sample #301- 5ABC; Rooms B, C & E
9. Room A wall joint compound (<1% Chrysotile) – Sample #301-9ABC; Room A
10. Room A wall surface texture (<1% Chrysotile) – Sample #301-10ABC; Room A

Lead Based Paint

Greater than the EPA's minimum regulatory level of 0.5% by weight was identified by laboratory analysis in the following samples:

2. Exterior window and door frame – dark green (.58% wt.)
4. Exterior porch ceiling – light blue (8.2% wt.)
5. Interior wall – white/blue (.99% wt.)
6. Interior wall – white (2.4% wt.)
7. Interior wood ceiling – blue (5.8% wt.)
8. Interior window – yellow/green/beige (2.3% wt.)
9. Interior walls – tan/purple/blue (3.3% wt.)
10. Interior walls Room B – tan/blue/green/orange (.95% wt.)
11. Interior ceiling – rust/grey (.89% wt.)

Recommendations:

Asbestos

Inform contractors involved with the renovation that non-regulated ACM was identified. Regulations from the Occupational Safety and Health Administration's 29 CFR 1926.1101 apply.

Lead Based Paint

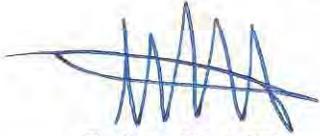
Inform contractors involved with the renovation that lead based paint components were identified prior so that appropriate personal protective measures are taken to adequately protect workers. If material components are to be removed, disposed, then additional testing using the Toxicity Characteristic Leaching Procedure (TCLP) will be required for waste characterization.

Please do not hesitate to contact Argus Environmental with any questions or comments regarding the on-site survey or the findings contained within this report.

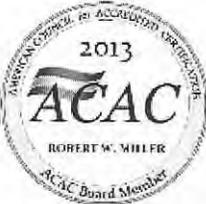
Sincerely,
For Argus Environmental Consultants, LLC.



Mark D. Freemyer
Texas DSHS Asbestos Consultant License #105695 (Exp. 6/12/2014)

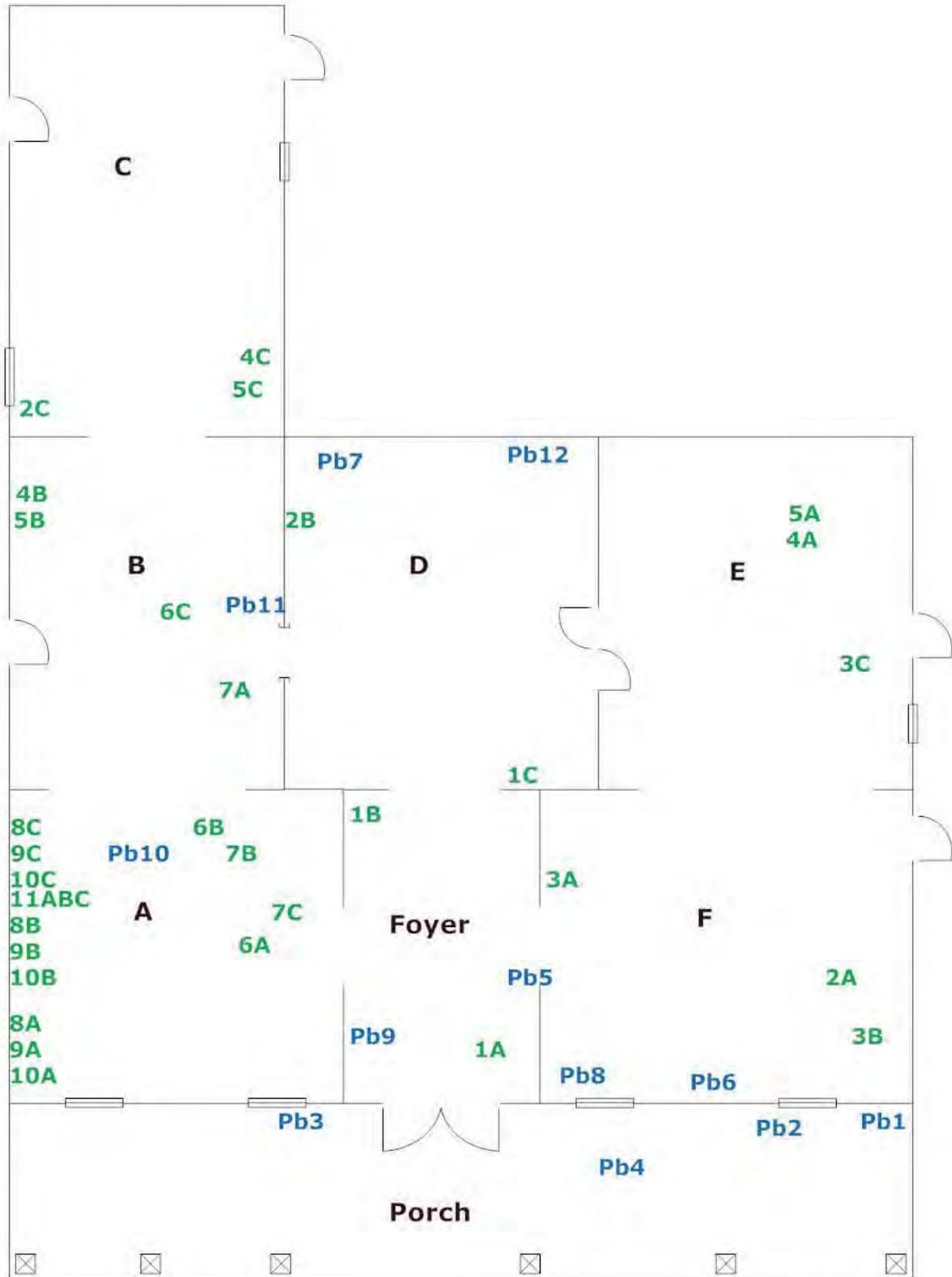


Robert W. Miller
Texas DSHS Asbestos Consultant #105237 (Exp. 8/19/2015)
Texas DSHS Lead Risk Assessor #2070094 (Exp. 8/4/2014)



- Attachments:
- 1) EMSL Analytical, Inc.'s EPA 600 PLM Asbestos Sample Results 8/22/2013
 - 2) EMSL Analytical, Inc.'s Lead-Based Paint Sample Results 8/21/2013
 - 3) Floor Plan indicating sample locations

Sweney House #301



Legend

Blue - Lead Sample Locations

Green - Asbestos Sample Locations



Environmental



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>

indianapolislab@emsl.com

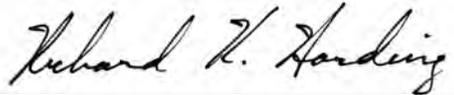
EMSL Order:	161313215
CustomerID:	ARGU52
CustomerPO:	
ProjectID:	

Attn: Mark Freemyer Argus Environmental 10004 Wurzbach Road Suite 247 San Antonio, TX 78230-2214	Phone: (210) 493-2560 Fax: (210) 342-9027 Received: 08/19/13 8:10 AM Analysis Date: 8/22/2013 Collected: 8/16/2013
Project: SWEENEY HOUSE / 1308285ARG	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
301-1A 161313215-0001	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
301-1B 161313215-0002	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
301-1C 161313215-0003	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous	5% Glass	5% Quartz 90% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
301-2A 161313215-0004	WALL SYSTEM - PLASTER	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (other)	None Detected
301-2B 161313215-0005	WALL SYSTEM - PLASTER	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
301-2C 161313215-0006	WALL SYSTEM - PLASTER	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
301-3A 161313215-0007	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					

Analyst(s)
 Craig Nixon (12)
 Jadda Moffett (23)


 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 09:53:50



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205
 Phone/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161313215
 CustomerID: ARGU52
 CustomerPO:
 ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

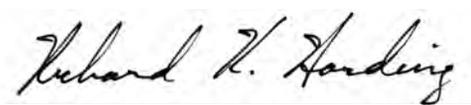
Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/19/13 8:10 AM
 Analysis Date: 8/22/2013
 Collected: 8/16/2013

Project: **SWEENEY HOUSE / 1308285ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
301-3B 161313215-0008	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
301-3C 161313215-0009	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
301-4A-Drywall 161313215-0010	WALL SYSTEM - GYPSUM BOARD	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	70% Gypsum 8% Non-fibrous (other)	None Detected
301-4A-Texture 161313215-0010A	WALL SYSTEM - GYPSUM BOARD	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
301-4B 161313215-0011	WALL SYSTEM - GYPSUM BOARD	Brown/White Fibrous Heterogeneous	20% Cellulose 2% Glass	70% Gypsum 8% Non-fibrous (other)	None Detected
301-4C-Drywall 161313215-0012	WALL SYSTEM - GYPSUM BOARD	Brown/White Fibrous Heterogeneous	35% Cellulose	60% Gypsum 5% Non-fibrous (other)	None Detected
301-4C-Texture 161313215-0012A	WALL SYSTEM - GYPSUM BOARD	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					

Analyst(s)
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 Jadda Moffett (23)


 Richard Harding, Laboratory Manager
 or other approved signatory

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San Antonio, TX 78230-2214

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 Fax: (210) 342-9027
 Received: 08/19/13 8:10 AM
 Analysis Date: 8/22/2013
 Collected: 8/16/2013

Project: SWEENEY HOUSE / 1308285ARG

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
301-5A 161313215-0013	CEILING SYSTEM - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
301-5B 161313215-0014	CEILING SYSTEM - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
301-5C 161313215-0015	CEILING SYSTEM - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
301-6A 161313215-0016	CEILING SYSTEM - ACOUSTIC TILE	Gray/White Fibrous Homogeneous	70% Cellulose 10% Min. Wool	15% Perlite 5% Non-fibrous (other)	None Detected
301-6B 161313215-0017	CEILING SYSTEM - ACOUSTIC TILE	Gray/White Fibrous Homogeneous	70% Cellulose 10% Min. Wool	15% Perlite 5% Non-fibrous (other)	None Detected
301-6C 161313215-0018	CEILING SYSTEM - ACOUSTIC TILE	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (other)	None Detected
301-7A 161313215-0019	HVAC SYSTEM DUCT - MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
301-7B 161313215-0020	HVAC SYSTEM DUCT - MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (12)
 Jadda Moffett (23)

Richard Harding, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

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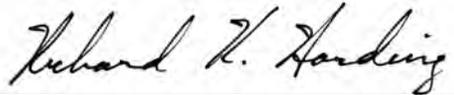
Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
301-7C 161313215-0021	HVAC SYSTEM DUCT - MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
301-8A 161313215-0022	WALL SYSTEM RM A W WALL - GYPSUM BOARD	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
301-8B 161313215-0023	WALL SYSTEM RM A W WALL - GYPSUM BOARD	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
301-8C 161313215-0024	WALL SYSTEM RM A W WALL - GYPSUM BOARD	Brown/White Fibrous Heterogeneous	35% Cellulose	60% Gypsum 5% Non-fibrous (other)	None Detected
301-9A 161313215-0025	WALL SYSTEM RM A W WALL - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
301-9B 161313215-0026	WALL SYSTEM RM A W WALL - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
301-9C 161313215-0027	WALL SYSTEM RM A W WALL - JOINT COMPOUND	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile

Inseparable paint / coating layer included in analysis

Analyst(s)

 Craig Nixon (12)
 Jadda Moffett (23)


 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 09:53:50

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>indianapolislab@emsl.com

EMSL Order: 161313215

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/19/13 8:10 AM
 Analysis Date: 8/22/2013
 Collected: 8/16/2013

Project: SWEENEY HOUSE / 1308285ARG

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
301-10A 161313215-0028	WALL SYSTEM RM A W WALL - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
301-10B 161313215-0029	WALL SYSTEM RM A W WALL - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
301-10C 161313215-0030	WALL SYSTEM RM A W WALL - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
301-11A 161313215-0031	THERMAL SYSTEM PIPING - INSULATION	Brown Fibrous Homogeneous	70% Cellulose 15% Glass	15% Non-fibrous (other)	None Detected
301-11B 161313215-0032	THERMAL SYSTEM PIPING - INSULATION	Brown/Black/Yello w Fibrous Homogeneous	70% Cellulose 15% Glass	15% Non-fibrous (other)	None Detected
301-11C 161313215-0033	THERMAL SYSTEM PIPING - INSULATION	Black/Silver/Yello w Fibrous Heterogeneous	10% Glass 40% Cellulose	50% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (12)
 Jadda Moffett (23)

Richard Harding, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 09:53:50

101313215

EMSL Analytical, Inc.
2001 E 52nd Street
Indianapolis, IN 46205
Phone: (317) 803-2997
Fax: (317) 803-3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
EPA method 600
*Positive Stop Count

Argus Environmental
10004 Wurzbach Rd., #247
San Antonio, Texas 78230
Phone (210) 493-2560
Fax (210) 342-9027
mark@argusenvironmental.com
beth@argusenvironmental.com

Page 1 of 4

Turn around time: 72 Hour		Project name: Sweeney House		Job number: 1308285ARG		Date of collection: 8-16-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
301-1A	301	PLASTER WALL SYSTEMS			GREY	SURFACE TEXTURE	
301-1B*	301	PLASTER WALL SYSTEMS			GREY	SURFACE TEXTURE	
301-1C*	301	PLASTER WALL SYSTEMS			GREY	SURFACE TEXTURE	
301-2A	301	WALL SYSTEMS			GREY	PLASTER	
301-2B*	301	WALL SYSTEMS			GREY	PLASTER	
301-2C*	301	WALL SYSTEMS			GREY	PLASTER	
301-3A	301	PLASTER WALL SYSTEMS			WHITE	SURFACE TEXTURE	
301-3B*	301	PLASTER WALL SYSTEMS			WHITE	SURFACE TEXTURE	
301-3C*	301	PLASTER WALL SYSTEMS			WHITE	SURFACE TEXTURE	
301-4A	301	WALL SYSTEMS			WHITE	GYPSUM BOARD	
Print name: Mark D Freemyer		Sample relinquished by:		Sample received by:			
Signature: <i>Mark D Freemyer</i>		Date: 8-16-13		Date: 8-19-13			
Time: 1800		Signature: <i>S. Braun</i>				Time: 8:10	
		Signature: <i>S. Braun</i>				Time: 8:10	

• Email all sample results

33

13215

EMSL Analytical, Inc.
 2001 E 52nd Street
 Indianapolis, IN 46205
 Phone: (317) 803-2997
 Fax: (317) 803- 3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
 EPA method 600
 *Positive Stop Count

Argus Environmental
 10004 Wurzbach Rd., #247
 San Antonio, Texas 78230
 Phone (210) 493-2560
 Fax (210) 342-9027
 mark@argusenvironmental.com
 beth@argusenvironmental.com

Turn around time: 72 Hour		Project name: Sweeney House		Job number: 1308285ARG		Date of collection: 8-16-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
301-4B*	301	WALL SYSTEMS			WHITE	GYPSUM BOARD	
301-4C*	301	WALL SYSTEMS			WHITE	GYPSUM BOARD	
301-5A	301	CEILING SYSTEMS			WHITE	JOINT COMPOUND	
301-5B*	301	CEILING SYSTEMS			WHITE	JOINT COMPOUND	
301-5C*	301	CEILING SYSTEMS			WHITE	JOINT COMPOUND	
301-6A	301	CEILING SYSTEMS - 2X4'			GREY	ACOUSTIC TILE	
301-6B*	301	CEILING SYSTEMS - 2X4'			GREY	ACOUSTIC TILE	
301-6C*	301	CEILING SYSTEMS - 2X4'			GREY	ACOUSTIC TILE	
301-7A	301	HVAC SYSTEM DUCT			BLACK	MASTIC	
301-7B*	301	HVAC SYSTEM DUCT			BLACK	MASTIC	
Sample relinquished by:				Sample received by:			
Print name: Mark D Freemyer		Date: 8-16-13		Print name: <i>SB</i>		Date: 8-19	
Signature: <i>Mark D Freemyer</i>		Time: 1800		Signature: <i>SB</i>		Time: 8:10	

- Email all sample results

EMSL Analytical, Inc.
 2001 E 52nd Street
 Indianapolis, IN 46205
 Phone: (317) 803-2997
 Fax: (317) 803-3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
 EPA method 600
 *Positive Stop Count

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 beth@argusenvironmental.com

13215

Turn around time: 72 Hour		Project name: Sweeney House		Job number: 1308285ARG		Date of collection: 8-16-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
301-7C*	301	HVAC SYSTEM DUCT			BLACK	MASTIC	
301-8A	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	GYPSUM BOARD	
301-8B*	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	GYPSUM BOARD	
301-8C*	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	GYPSUM BOARD	
301-9A	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	JOINT COMPOUND	
301-9B*	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	JOINT COMPOUND	
301-9C*	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	JOINT COMPOUND	
301-10A	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	SURFACE TEXTURE	
301-10B*	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	SURFACE TEXTURE	
301-10C*	301	WALL SYSTEM ROOM A, WEST WALL			WHITE	SURFACE TEXTURE	
Sample relinquished by:				Sample received by:			
Print name: Mark D Freemyer		Date: 8-16-13		Print name: SB		Date: 8-19	
Signature: Mark D Freemyer		Time: 1800		Signature: [Signature]		Time: 810	

• Email all sample results

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EMSL Analytical, Inc.
2001 E 52nd Street
Indianapolis, IN 46205
Phone: (317) 803-2997
Fax: (317) 803- 3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
EPA method 600
*Positive Stop Count

Argus Environmental
10004 Wurzbach Rd., #247
San Antonio, Texas 78230
Phone (210) 493-2560
Fax (210) 342-9027
mark@argusenvironmental.com
beth@argusenvironmental.com

Page 4 of 4

Turn around time: 72 Hour		Project name: Sweeney House		Job number: 1308285ARG		Date of collection: 8-16-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is <i>in good condition</i> unless otherwise noted		Size	Color	Type of material	
301-11A	301	THERMAL SYSTEM PIPING			CREAM + BLACK	INSULATION	
301-11B*	301	THERMAL SYSTEM PIPING			CREAM + BLACK	INSULATION	
301-11C*	301	THERMAL SYSTEM PIPING			CREAM + BLACK	INSULATION	
Sample relinquished by:				Sample received by:			
Print name: Mark D Freemyer		Date: 8-16-13		Print name: SB		Date: 8-19	
Signature: Mark D Freemyer		Time: 1800		Signature: ASB		Time: 8:10	

• Email all sample results

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>indianapolislab@emsl.com

EMSL Order: 161313260

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Elizabeth Aguilar**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/21/13 9:30 AM
 Collected: 8/16/2013

Project: 1308285ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	8/26/2013	0.010 % wt	0.036 % wt	Site: Ext. wall Desc: white <i>Collected: 8/16/2013</i>
<i>Client Sample Pb1</i>				
0002	8/26/2013	0.10 % wt	0.58 % wt	Site: Ext window & door frame Desc: Dk. Green <i>Collected: 8/16/2013</i>
<i>Client Sample Pb2</i>				
0003	8/26/2013	0.010 % wt	0.096 % wt	Site: Ext window & door frame Desc: Lt. Green <i>Collected: 8/16/2013</i>
<i>Client Sample Pb3</i>				
0004	8/26/2013	0.40 % wt	8.2 % wt	Site: Ext. Porch ceiling Desc: Lt. Blue <i>Collected: 8/16/2013</i>
<i>Client Sample Pb4</i>				
0005	8/26/2013	0.10 % wt	0.99 % wt	Site: Int. wall Desc: White/Blue <i>Collected: 8/16/2013</i>
<i>Client Sample Pb5</i>				
0006	8/26/2013	0.20 % wt	2.4 % wt	Site: Int. wall Desc: White <i>Collected: 8/16/2013</i>
<i>Client Sample Pb6</i>				
0007	8/26/2013	0.40 % wt	5.8 % wt	Site: Int. wood ceiling Desc: Blue <i>Collected: 8/16/2013</i>
<i>Client Sample Pb7</i>				
0008	8/26/2013	0.10 % wt	2.3 % wt	Site: Int. window Desc: Yellow/green/beige <i>Collected: 8/16/2013</i>
<i>Client Sample Pb8</i>				
0009	8/26/2013	0.10 % wt	3.3 % wt	Site: Int. walls Desc: Tan/Purple/Blue <i>Collected: 8/16/2013</i>
<i>Client Sample Pb9</i>				
0010	8/26/2013	0.10 % wt	0.95 % wt	Site: Int. walls Room B Desc: Tan/Blue/Green/Orange <i>Collected: 8/16/2013</i>
<i>Client Sample Pb10</i>				

Doug Wiegand, Laboratory Manager
 or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Initial report from 09/04/2013 08:35:32

Test Report PB w/RDL-7.26.0 Printed: 9/4/2013 8:35:32 AM

Page 1 of 2

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>indianapolislab@emsl.com

EMSL Order: 161313260

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Elizabeth Aguilar**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/21/13 9:30 AM
 Collected: 8/16/2013

Project: 1308285ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0011	8/26/2013	0.10 % wt	0.89 % wt	Site: Int. Ceiling Desc: Rust/grey <i>Collected: 8/16/2013</i>
<i>Client Sample</i> Pb11				
0012	8/26/2013	0.010 % wt	0.091 % wt	Site: Int. Ceiling GB Desc: White <i>Collected: 8/16/2013</i>
<i>Client Sample</i> Pb12				

Doug Wiegand, Laboratory Manager
 or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Initial report from 09/04/2013 08:35:32

Test Report PB w/RDL-7.26.0 Printed: 9/4/2013 8:35:32 AM

Page 2 of 2



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

161313260

EMSL Analytical, Inc.
2001 East 52nd Street

Indianapolis, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Company: Argus Environmental Consultants, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 10004 Wurzbach Road #247		<i>Third Party Billing requires written authorization from third party</i>	
City: San Antonio	State/Province: TX	Zip/Postal Code: 78230	Country: United States
Report To (Name): Elizabeth Aguilar		Telephone #: 210-493-2560	
Email Address: beth@argusenvironmental.com		Fax #: 210-342-9027	Purchase Order:
Project Name/Number: 1308285ARG		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: TX		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Robert W. Miller Signature of Sampler: *[Signature]*

Sample #	Location	Volume/Area	Date/Time Sampled
Pb 1	Exterior Wall	White	8-16-13 1 AM
Pb 2	Exterior Window + Door frame	DK Green	↓
Pb 3	Exterior Window + Door	Lt. Green	
Pb 4	Exterior Porch Ceiling	Lt. Blue	
Pb 5	Interior Wall	White / Blue	

Client Sample #'s: Pb1 - Pb5 Total # of Samples: 12

Relinquished (Client): *[Signature]* Date: 8-20-13 Time: 11:15

Received (Lab): *[Signature]* Date: 8-21-13 Time: 9:30

Comments:
Bill To: Argus Environmental Consultants, LLC, 10004 Wurzbach Road #247, San Antonio, TX, 78230, United States
Attention: Sarah Akeroyd Phone: 210-493-2560 Email: beth@argusenvironmental.com Purchase Order:

October 24, 2013

Project No: 1308296ARG

Mr. Bruce Wik
Weston Solutions
70 NE Loop 410, Suite 600
Phone: (210) 308-4300
Email: Bruce.Wik@WestonSolutions.com

RE: LIMITED ASBESTOS AND LEAD BASED PAINT SURVEY FOR THE SCHULTZE HOUSE #307, HEMISFAIR PARK HISTORICAL HOMES, LOCATED IN SAN ANTONIO, TEXAS

Dear Mr. Wik:

Argus Environmental Consultants, LLC was contacted by Weston Solutions to perform a limited asbestos and lead based paint survey of the materials within the Schultze House #307 located in San Antonio, Texas.

The Scope of Services included in the limited Asbestos Survey consisted of the following:

- Visual evaluation of the interior finish materials.
- Identification of suspect asbestos containing materials (ACM) into homogeneous areas.
- Random collection of bulk samples from building materials that potentially contain asbestos.
- Laboratory analysis of building materials by a third party lab licensed by the Texas Department of State Health Services (DSHS).
- Analysis by Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Method 600.

The Scope of Services included in the limited Lead Based Paint Survey consisted of the following:

- Visual evaluation of the exterior and interior paint finishes.
- Identification of suspect paint into homogeneous areas.
- Random collection of bulk samples from paint that potentially contains lead.
- Laboratory analysis of paint by a third party lab certified by the EPA.
- Analysis by Flame Atomic Absorption using EPA Method SW846-7000B.

Argus Environmental's entire liability pertaining to this report and all work associated with it is limited to the INVOICED amount defined within the Scope of Services.



Indoor Air Quality

Mold

Asbestos

Lead

Industrial Hygiene

Clandestine Drug
Assessment &
Remediation

OSHA Compliance

Occupational &
Environmental
Health & Safety

Training

Expert Testimony

Pre-Purchase
Inspections

Environmental Site
Assessments-
Phase I, II & III

Environmental
Impact Assessments

Wetlands
Delineation

Property
Transaction
Due Diligence
Screening

Forensics

Thermal Imaging
Water Intrusion
Failure Analysis



HUB

•

*Small
Women Owned
Business*

This report has been prepared for the exclusive use of the Weston Solutions, Inc. and the City of San Antonio and their assigned agents. It and all contents, findings, conclusions and recommendations expressed herein are not intended for any other purpose than that stated nor is intended to be used by any other party.

The asbestos survey and lead based paint survey was performed on September 5, 2013 by Mark D. Freemyer Texas DSHS Asbestos Consultant License #105695.

The following asbestos homogenous areas were identified and bulk samples were collected:

Homogenous Area	Description	Sample IDs
1	2x4' Fissure and hole acoustic ceiling tile	307-1ABC
2	Brown cove base mastic	307-2ABC
3	Gypsum board	307-3ABC
4	Joint compound	307-4ABC
5	Grey insulation	307-5ABC

The following building painted surfaces were identified as potentially containing lead and were sampled:

Sample ID	Description
L01	Window frames – coral
L02	Wall – white
L03	Window frames – off-white
L04	Beams – black
L05	Ceiling – white
L06	Crown molding – white
L07	Concrete – grey/yellow
L08	Exterior wood – tan
L09	Exterior soffit – brick red
L10	Exterior wood – cream
L11	Exterior wood – hunter green

Conclusions:Asbestos

ACM not regulated by the Texas DSHS were found by PLM in the following materials:

Homogeneous Area	Description/ Location	Sample ID	Percent (%) Asbestos	Condition	Friable/ Non-friable
4	Joint compound/ 1 st floor wall systems and 2 nd floor wall and ceiling systems	307-4ABC	<1% Chrysotile	Good condition	Non-friable

Lead Based Paint

Greater than the EPA's minimum regulatory level of 0.5% by weight (wt.) was identified by laboratory analysis in the following samples:

Sample ID	Description/Location	Percent (%) Lead by Weight (wt.)
L01	1 st Floor window frame – coral	3.4% wt.
L03	1 st Floor back hall window frame – off-white	3.7% wt.
L04	1 st Floor beams – black	41% wt.
L08	Exterior porch wood – tan	3.0% wt.
L10	Exterior porch wood - cream	2.5% wt.

Recommendations:Asbestos

Only non-regulated ACM was identified thereby precluding regulatory compliance with EPA and Texas DSHS regulations; however, regulations from the Occupational Safety and Health Administration's 29 Code of Federal Regulations (CFR) 1926.1101 apply.

Inform contractors involved with the renovation that non-regulated ACM was identified in the gypsum board ceiling and wall systems. Any material disturbance by the contractor and associated personnel should be completed by keeping the materials adequately wet with an amended water solution. The contractor should provide appropriate and adequate personal protective equipment for all personnel. Debris may be disposed of as general construction

Schultze House

waste. Final clean-up should be accomplished by using a High Efficiency Particulate Air (HEPA) filtered vacuum.

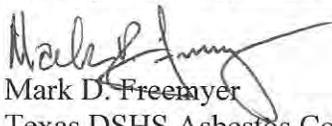
Lead Based Paint

Inform contractors involved with the renovation that lead based paint components were identified. Any material disturbance by the contractor and associated personnel should be completed by keeping the materials adequately wet with an amended water solution. The contractor should provide appropriate and adequate personal protective equipment for all personnel. Debris and material components that are removed and disposed, should be subjected to additional testing using the Toxicity Characteristic Leaching Procedure (TCLP) for waste characterization. Final clean-up should be accomplished by using a HEPA filtered vacuum.

Should the property ultimately house children six years or younger, then the renovation contractor should be certified by the United States EPA's Lead Based Paint Renovation and Restoration Rule.

Please do not hesitate to contact Argus Environmental with any questions or comments regarding the on-site survey or the findings contained within this report.

Sincerely,
For Argus Environmental Consultants, LLC.



Mark D. Freemyer
Texas DSHS Asbestos Consultant License #105695 (Exp. 6/12/2014)



Robert W. Miller
Texas DSHS Asbestos Consultant #105237 (Exp. 8/19/2015)
Texas DSHS Lead Risk Assessor #2070094 (Exp. 8/4/2014)



- Attachments: 1) EMSL Analytical, Inc.'s EPA 600 PLM Asbestos Sample Results 9/12/2013
2) EMSL Analytical, Inc.'s Lead-Based Paint Sample Results 9/10/2013
3) Floor Plan indicating sample locations

Schultze House

161314513

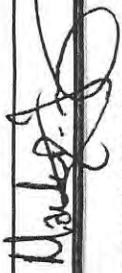
EMSL Analytical, Inc.

2001 E 52nd Street
 Indianapolis, IN 46205
 Phone: (317) 803-2997
 Fax: (317) 803-3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
 EPA method 600
 *Positive Stop Count

Argus Environmental
 10004 Wurzbach Rd., #247
 San Antonio, Texas 78230
 Phone (210) 493-2560
 Fax (210) 342-9027
 sarah@argusenvironmental.co
 m
 beth@argusenvironmental.com

Sample number	Building or Room number	Project name: Schultze Store (307)	Job number: 1309296ARG	Date of collection: 9-5-2013	Material description		
					Other description, material is in good condition unless otherwise noted	Type of material	
307 - 1A	307	2x4' Fissure and hole acoustic			White	Ceiling tile	
307 - 1B*	307	2x4' Fissure and hole acoustic			White	Ceiling tile	
307 - 1C*	307	2x4' Fissure and hole acoustic			White	Ceiling tile	
307 - 2A	307	Cove base			Brown	Mastic	
307 - 2B*	307	Cove base			Brown	Mastic	
307 - 2C*	307	Cove base			Brown	Mastic	
307 - 3A	307	Wall system			White	Gypsum board	
307 - 3B*	307	Wall system			White	Gypsum board	
307 - 3C*	307	Wall system			White	Gypsum board	
307 - 4A	307	Wall system			White	Joint compound	
Sample relinquished by: Mark D. Freemyer					Sample received by:		
Print name:	Mark D. Freemyer	Date:	9-5-2013	Print name:	H. Jimmons	Date:	9/10/13
Signature:		Time:	11:41	Signature:		Time:	9:45 Fe

• Email all sample results

14513

EMSL Analytical, Inc.
 2001 E 52nd Street
 Indianapolis, IN 46205
 Phone: (317) 803-2997
 Fax: (317) 803- 3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
 EPA method 600
 *Positive Stop Count

Argus Environmental
 10004 Wurzbach Rd., #247
 San Antonio, Texas 78230
 Phone (210) 493-2560
 Fax (210) 342-9027
 sarah@argusenvironmental.co
 m
 beth@argusenvironmental.com

Turn around time: 72 hours		Project name: Schultze Store (307)		Job number: 1309296ARG		Date of collection: 9-5-2013	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
307 - 4B*	307	Wall system			White	Joint compound	
307 - 4C*	307	Wall system			White	Joint compound	
307 - 5A	307				Grey	Insulation	
307 - 5B*	307				Grey	Insulation	
307 - 5C*	307				Grey	Insulation	
Sample relinquished by: Mark D. Freemyer				Sample received by:			
Print name:		Date:		Print name:		Date:	
		9-9-2013		H. Timmons		9/10/13	
Signature:		Time:		Signature:		Time:	
		11:41		H. Timmons		9:45AM	

• Email all sample results

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205
 Phone/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161314513
 CustomerID: ARGU52
 CustomerPO:
 ProjectID:

Attn: **Sarah Akeroyd**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/10/13 9:45 AM
 Analysis Date: 9/12/2013
 Collected: 9/5/2013

Project: **SCHULTZE STORE (307) 1309296ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
307-1A 161314513-0001	CEILING TILE	Brown/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (other)	None Detected
307-1B 161314513-0002	CEILING TILE	Brown/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (other)	None Detected
307-1C 161314513-0003	CEILING TILE	Brown Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (other)	None Detected
307-2A 161314513-0004	MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
307-2B 161314513-0005	MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
307-2C 161314513-0006	MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
307-3A 161314513-0007	GYPSON BOARD	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
307-3B 161314513-0008	GYPSON BOARD	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected

Analyst(s)

Jadda Moffett (10)
 Molly Elkins (5)

Richard Harding, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/12/2013 13:32:04

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>indianapolislaboratory@emsl.com

EMSL Order: 161314513

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Sarah Akeroyd**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/10/13 9:45 AM
 Analysis Date: 9/12/2013
 Collected: 9/5/2013

Project: SCHULTZE STORE (307) 1309296ARG

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
307-3C 161314513-0009	GYPSUM BOARD	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
307-4A 161314513-0010	JOINT COMPOUND	White Non-Fibrous Homogeneous	100% Non-fibrous (other)		<1% Chrysotile
Inseparable paint / coating layer included in analysis					
307-4B 161314513-0011	JOINT COMPOUND	White Non-Fibrous Homogeneous	100% Non-fibrous (other)		<1% Chrysotile
Inseparable paint / coating layer included in analysis					
307-4C 161314513-0012	JOINT COMPOUND	White Non-Fibrous Homogeneous	100% Non-fibrous (other)		<1% Chrysotile
Inseparable paint / coating layer included in analysis					
307-5A 161314513-0013	INSULATION	Gray Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected
307-5B 161314513-0014	INSULATION	Gray Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected
307-5C 161314513-0015	INSULATION	Gray Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (other)	None Detected

Analyst(s)

Jadda Moffett (10)

Molly Elkins (5)

Richard Harding, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/12/2013 13:32:04



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

160314483

EMSL Analytical, Inc.
2001 East 52nd Street

Indianapolis, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Company: Argus Environmental Consultants, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>		
Street: 10004 Wurzbach Road #247		<i>Third Party Billing requires written authorization from third party</i>		
City: San Antonio	State/Province: TX	Zip/Postal Code: 78230	Country: United States	
Report To (Name): Mark Freemyer		Telephone #: 210-493-2560		
Email Address: beth@argusenvironmental.com		Fax #: 210-342-9027	Purchase Order:	
Project Name/Number: 1309296ARG		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail		
U.S. State Samples Taken: TX		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
	Other:			<input type="checkbox"/>
Name of Sampler: Mark D. Freemyer		Signature of Sampler:		
Sample #	Location	Volume/Area	Date/Time Sampled	
L01	Window frames	Coral	9-5-2013; PM	
L02	Wall	White	9-5-2013; PM	
L03	Window frames	Off-white	9-5-2013; PM	
L04	Beams	Black	9-5-2013; PM	
L05	Ceiling	White	9-5-2013; PM	
Client Sample #'s	-L01 - L11	Total # of Samples:	11	
Relinquished (Client):	Mark D. Freemyer	Date:	9-9-2013	
Received (Lab):		Date:	9/10/13	
		Time:	11:51	
		Time:	9:45 Fx	
Comments: Bill To: Argus Environmental Consultants, LLC, 10004 Wurzbach Road #247, San Antonio, TX, 78230, United States Attention: Sarah Akeroyd Phone: 210-493-2560 Email: beth@argusenvironmental.com Purchase Order:				

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205
 Phone/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> indianapolislaboratory@emsl.com

EMSL Order: 161314483
 CustomerID: ARGU52
 CustomerPO:
 ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/10/13 9:45 AM
 Collected: 9/5/2013

Project: 1309296ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	9/11/2013	0.40 % wt	3.4 % wt	Site: WIN FRAMES Desc: CORAL <i>Collected: 9/5/2013</i>
<i>Client Sample L01</i>				
0002	9/11/2013	0.010 % wt	0.034 % wt	Site: WALL Desc: WHITE <i>Collected: 9/5/2013</i>
<i>Client Sample L02</i>				
0003	9/11/2013	0.40 % wt	3.7 % wt	Site: WIN FRAMES Desc: OFF-WHITE <i>Collected: 9/5/2013</i>
<i>Client Sample L03</i>				
0004	9/11/2013	1.6 % wt	41 % wt	Site: BEAMS Desc: BLACK <i>Collected: 9/5/2013</i>
<i>Client Sample L04</i>				
0005	9/11/2013	0.010 % wt	0.072 % wt	Site: CEILING Desc: WHITE <i>Collected: 9/5/2013</i>
<i>Client Sample L05</i>				
0006	9/11/2013	0.015 % wt	0.081 % wt	Site: CROWN MOLDING Desc: WHITE <i>Collected: 9/5/2013</i>
<i>Client Sample L06</i>				
0007	9/11/2013	0.010 % wt	0.11 % wt	Site: CONCRETE Desc: GREY/YELLOW <i>Collected: 9/5/2013</i>
<i>Client Sample L07</i>				
0008	9/11/2013	0.20 % wt	3.0 % wt	Site: EXT-WOOD Desc: TAN <i>Collected: 9/5/2013</i>
<i>Client Sample L08</i>				
0009	9/11/2013	0.010 % wt	0.11 % wt	Site: EXT-SOFFIT Desc: BRICK RED <i>Collected: 9/5/2013</i>
<i>Client Sample L09</i>				
0010	9/11/2013	0.20 % wt	2.5 % wt	Site: EXT-WOOD Desc: CREAM <i>Collected: 9/5/2013</i>
<i>Client Sample L10</i>				

Doug Wiegand, Laboratory Manager
 or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Initial report from 09/23/2013 18:22:37

Test Report PB w/RDL-7.26.0 Printed: 9/23/2013 6:22:37 PM

Page 1 of 2



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205
Phone/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161314483
CustomerID: ARGU52
CustomerPO:
ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
Fax: (210) 342-9027
Received: 09/10/13 9:45 AM
Collected: 9/5/2013

Project: 1309296ARG

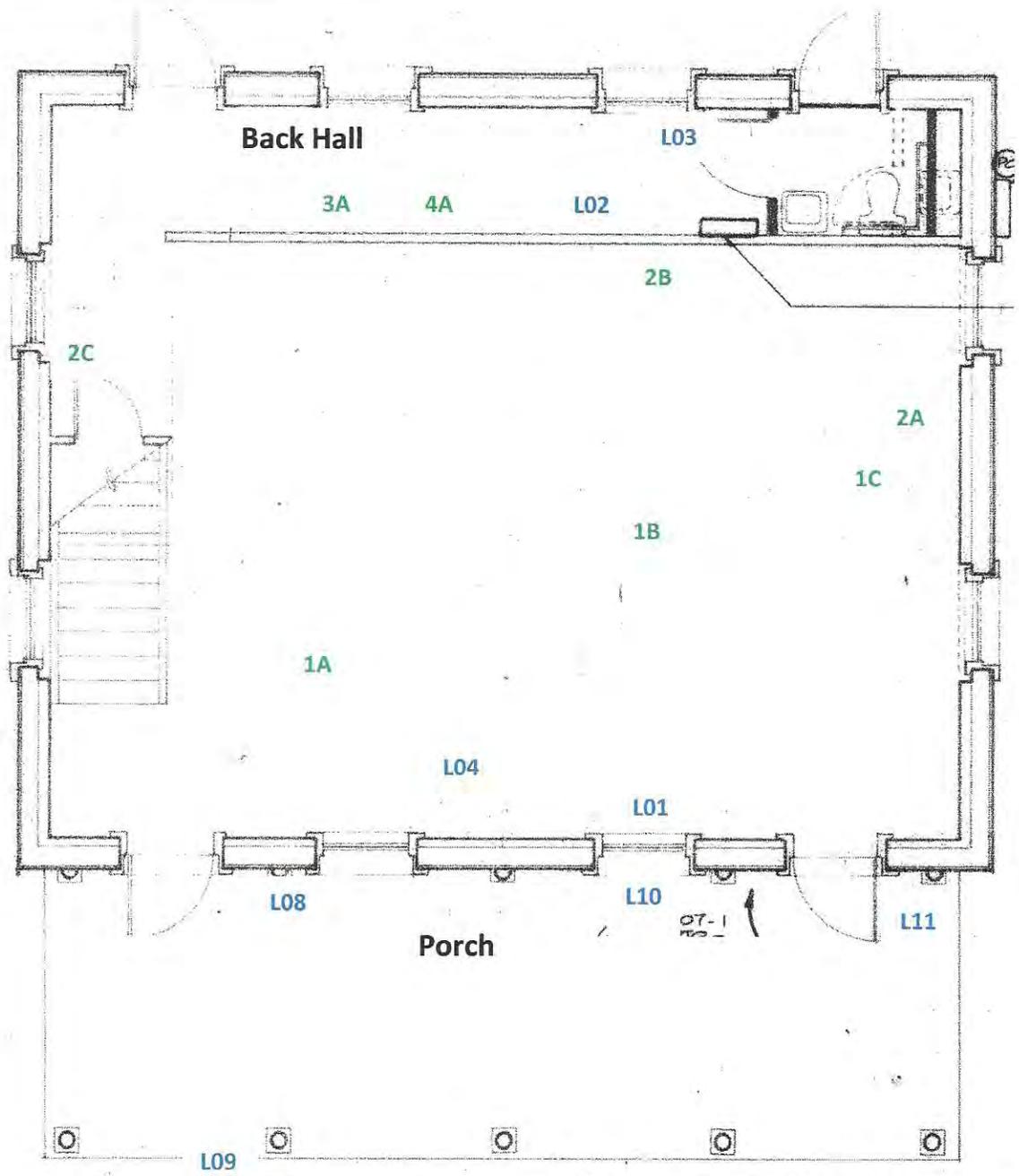
Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0011	9/11/2013	0.011 % wt	0.15 % wt	Site: EXT-WOOD Desc: HINTER GREEN Collected: 9/5/2013
<i>Client Sample</i> L11				

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.
Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

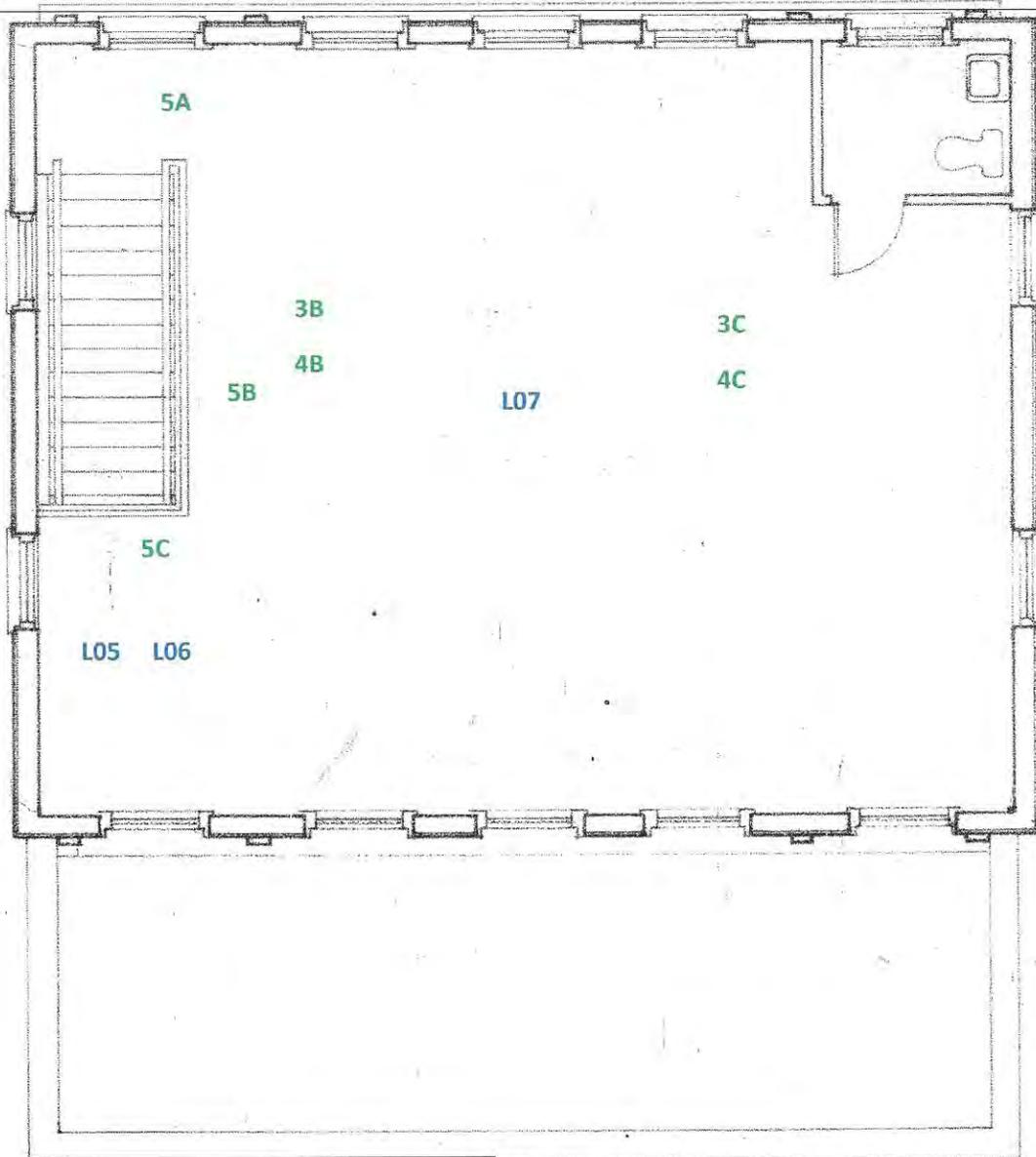
Schultze House #307



Legend
Green – Asbestos Sample Location
Blue – Lead Sample Location

1 First Floor Plan - E
E-4 1/4"=1'

Schultze House #307



Legend
Green – Asbestos Sample Location
Blue – Lead Sample Location

Second Floor Plan
1/4" = 1'

October 23, 2013

Project No: 1308315ARG

Mr. Bruce Wik
Weston Solutions
70 NE Loop 410, Suite 600
Phone: (210) 308-4300
Email: Bruce.Wik@WestonSolutions.com

**RE: LIMITED ASBESTOS AND LEAD BASED PAINT SURVEY FOR THE
MAYER/HALFF HOUSE #308, HEMISFAIR PARK HISTORICAL HOMES,
LOCATED IN SAN ANTONIO, TEXAS**

Dear Mr. Wik:

Argus Environmental Consultants, LLC was contacted by Weston Solutions to perform a limited asbestos and lead based paint survey of the materials within the Mayer/Halff House #308 located in San Antonio, Texas.

The Scope of Services included in the limited Asbestos Survey consisted of the following:

- Visual evaluation of the interior finish materials.
- Identification of suspect asbestos containing materials (ACM) into homogeneous areas.
- Random collection of bulk samples from building materials that potentially contain asbestos.
- Laboratory analysis of building materials by a third party lab licensed by the Texas Department of State Health Services (DSHS).
- Analysis by Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Method 600.

The Scope of Services included in the limited Lead Based Paint Survey consisted of the following:

- Visual evaluation of the exterior and interior paint finishes.
- Identification of suspect paint into homogeneous areas.
- Random collection of bulk samples from paint that potentially contains lead.
- Laboratory analysis of paint by a third party lab certified by the EPA.
- Analysis by Flame Atomic Absorption using EPA Method SW846-7000B.

Argus Environmental's entire liability pertaining to this report and all work associated with it is limited to the INVOICED amount defined within the Scope of Services.



Indoor Air Quality

Mold

Asbestos

Lead

Industrial Hygiene

Clandestine Drug
Assessment &
Remediation

OSHA Compliance

Occupational &
Environmental
Health & Safety

Training

Expert Testimony

Pre-Purchase
Inspections

Environmental Site
Assessments-
Phase I, II & III

Environmental
Impact Assessments

Wetlands
Delineation

Property
Transaction
Due Diligence
Screening

Forensics

Thermal Imaging
Water Intrusion
Failure Analysis



HUB

•
Small

**Women Owned
Business**

This report has been prepared for the exclusive use of the Weston Solutions, Inc. and the City of San Antonio and their assigned agents. It and all contents, findings, conclusions and recommendations expressed herein are not intended for any other purpose than that stated nor is intended to be used by any other party.

The asbestos survey and lead based paint survey was performed on September 18, 2013 by Elizabeth Aguilar Texas DSHS Asbestos Inspector License #603203.

The following asbestos homogenous areas were identified and bulk samples were collected:

Homogenous Area	Description	Sample IDs
1	Gypsum board	308-1ABC
2	Joint compound	308-2ABC
3	Wall texture – stipple	308-3ABC
4	Grey plaster	308-4ABC
5	Grey brick grout	308-5ABC
6	Brown cove base mastic	308-6ABC
7	White window caulk	308-7ABC
8	White restroom caulk	308-8ABC
9	Ceiling texture – popcorn	308-9ABC
10	Cream/white Thermal System Insulation (TSI): wrap, mastic, and yellow insulation	308-10ABC
11	Wall texture – heavy stipple	308-11ABC
12	White sink undercoat	308-12ABC
13	Black weathering strip	308-13ABC
14	Black pipe mastic	308-14ABC
15	Grey floor grout	308-15ABC
16	12x12” White with black floor tile and yellow mastic	308-16ABC
17	Black floor mastic	308-17ABC
18	White riser caulk	308-18ABC
19	Yellow wall panel mastic	308-19ABC
20	Wall texture – flat	308-20ABC
21	White window caulk	308-21ABC
22	Grey brick grout	308-22ABC

The following building painted surfaces were identified as potentially containing lead and were sampled:

Sample ID	Description
L01	Plaster wall – brown
L02	Plaster wall – white
L03	Gypsum board wall – white
L04	Wood window – stain
L05	Wood window – brown
L06	Wood wall panel – white
L07	Wood door case - brown
L08	Wood floor – white
L09	Wood wall – yellow
L10	Wood cabinet door – dark stain
L11	Plaster wall – tan
L12	Metal pipe – green
L13	Plaster wall – green
L14	Wood wall – tan
L15	Wood window – brown
L16	Wood floor – grey
L17	Wood door – brown
L18	Wood floor – stain
L19	Wood floor – brown
L20	Wood stair riser – red
L21	Wood window – tan
L22	Wood door – tan
L23	Wood walls – black
L24	Wood walls – dark brown
L25	Wood beams - white

Conclusions:Asbestos

ACM were found in the following materials:

Homogeneous Area	Description/ Location	Sample ID	Percent (%) Asbestos	Quantity	Condition	Friable/ Non-friable
10	Cream-white TSI: wrap, mastic and yellow insulation/1 st and 2 nd Floor, crawl space and Basement pipes	308-10B	3% Chrysotile	120 linear feet	Good condition	Non-friable
12	White sink undercoat/ 2 nd Floor kitchen	308-12A	3% Chrysotile	2 linear feet	Good condition	Non-friable
14	Black pipe mastic/2 nd Floor and Basement pipes	308-14A	7% Chrysotile	100 linear feet	Good condition	Non-friable

ACM not regulated by the Texas DSHS were found by PLM in the following materials:

Homogenous Area	Description/Location	Sample ID	Percent (%) Asbestos	Condition	Friable/ Non-friable
2	Joint compound/gypsum board ceiling & wall systems	308-2C	<1% Chrysotile	Good condition	Non-friable
9	Ceiling texture – popcorn/1 st & 2 nd Floor ceiling system	308-9A	<1% Chrysotile	Good condition	Non-friable
20	Wall texture – flat/3 rd Floor wall systems	308-20ABC	<1% Chrysotile	Good condition	Non-friable

Mayer/Halff House

Homogenous Area	Description/Location	Sample ID	Percent (%) Asbestos	Condition	Friable/ Non-friable
21	White window caulk/1 st Floor	308-21ABC	<1% Chrysotile	Good condition	Non-friable

Lead Based Paint

Greater than the EPA's minimum regulatory level of 0.5% by weight (wt.) was identified by laboratory analysis in the following samples:

Sample ID	Description/Location	Percent (%) Lead by Weight (wt.)
L04	1 st Floor wood window – stain	18% wt.
L05	1 st Floor wood window – brown	6.3% wt.
L07	2 nd Floor wood door case – brown	23% wt.
L08	2 nd Floor wood floor – white	11% wt.
L09	2 nd Floor wood wall – yellow	13% wt.
L10	2 nd Floor wood cabinet door – dark stain	1.0% wt.
L11	2 nd Floor plaster wall – tan	0.55% wt.
L12	2 nd Floor metal pipe – green	2.2% wt.
L13	2 nd Floor plaster wall - green	1.1% wt.
L14	2 nd Floor wood wall – tan	9.6% wt.
L15	2 nd Floor wood window – brown	13% wt.
L16	2 nd Floor wood floor – grey	3.2% wt.
L17	2 nd Floor wood door – brown	4.4% wt.
L19	2 nd Floor wood floor – brown	6.3% wt.
L20	2 nd Floor wood stair riser – red	18% wt.
L21	3 rd Floor wood window - tan	1.9% wt.
L22	3 rd Floor wood door – tan	6.7% wt.
L23	1 st Floor wood walls – black	16% wt.
L24	1 st Floor wood beams – dark brown	1.5% wt.

Recommendations:

Asbestos

If the regulated ACM are involved in any renovation, abate ACM in accordance with the Texas DSHS regulations as required. This will involve the submittal of a Texas DSHS Notification Form no less than 10 days prior to the commencement of work. ACM may be removed using typical wet methods within a glove bag enclosure by a Texas DSHS licensed abatement contractor.

Mayer/Half House

Abatement projects involving 160 square feet, 260 linear feet or 35 cubic feet of ACM will require a written Scope of Work known as an Asbestos Abatement Design Specification written by an Asbestos Consultant licensed by Texas DSHS. Since only 122 linear feet were detected this rule does not directly apply to this property and no Asbestos Abatement Design Specification will be required to abate the identified ACM.

All abatement projects will require air monitoring and project management onsite by a Texas DSHS licensed Air Monitoring Technician/Project Manager (AMT/PM). Final work area clearance and a written report by a Texas DSHS licensed Consultant appointed AMT/PM will serve to complete abatement activities.

Inform contractors involved with the renovation that non-regulated ACM was identified in the gypsum board ceiling and wall systems, joint compound on wall and ceiling system, popcorn ceiling texture, wall texture and window caulk. Any material disturbance by the contractor and associated personnel should be completed by keeping the materials adequately wet with an amended water solution. The contractor should provide appropriate and adequate personal protective equipment for all personnel. Debris may be disposed of as general construction waste. Final clean-up should be accomplished by using a High Efficiency Particulate Air (HEPA) filtered vacuum. Regulations from the Occupational Safety and Health Administration's 29 Code of Federal Regulations (CFR) 1926.1101 apply.

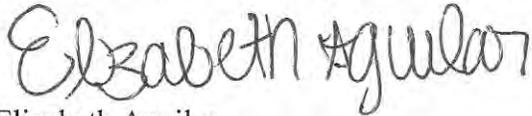
Lead Based Paint

Inform contractors involved with the renovation that lead based paint components were identified. Any material disturbance by the contractor and associated personnel should be completed by keeping the materials adequately wet with an amended water solution. The contractor should provide appropriate and adequate personal protective equipment for all personnel. Debris and material components that are removed and disposed, should be subjected to additional testing using the Toxicity Characteristic Leaching Procedure (TCLP) for waste characterization. Final clean-up should be accomplished by using a HEPA filtered vacuum.

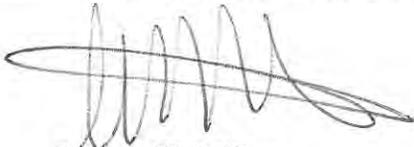
Should the property ultimately house children six years or younger, then the renovation contractor should be certified by the United States EPA's Lead Based Paint Renovation and Restoration Rule.

Please do not hesitate to contact Argus Environmental with any questions or comments regarding the on-site survey or the findings contained within this report.

Sincerely,
For Argus Environmental Consultants, LLC.



Elizabeth Aguilar
Texas DSHS Asbestos Inspector License #603203 (Exp. 12/12/2014)
Texas DSHS Lead Inspector License #2060867 (Exp. 1/09/2015)



Robert W. Miller
Texas DSHS Asbestos Consultant #105237 (Exp. 8/19/2015)
Texas DSHS Lead Risk Assessor #2070094 (Exp. 8/4/2014)



- Attachments:
- 1) EMSL Analytical, Inc.'s EPA 600 PLM Asbestos Sample Results 9/24/2013
 - 2) EMSL Analytical, Inc.'s Lead-Based Paint Sample Results 9/19/2013
 - 3) Floor Plan indicating sample locations

161315089

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 2001 E 52nd Street
 Indianapolis, IN 46205
 Phone: (317) 803-2997
 Fax: (317) 803-3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
 EPA method 600
 *Positive Stop Count

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 m
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Page 1 of 7

Sample number	Building or Room number	Project name: Mayer/Half House #308	Sample location Other description, material is in good condition unless otherwise noted	Job number: 1309315ARG		Date of collection: 9-18-13
				Size	Material description Color	
308 - 1A	308				White	Gypsum board
308 - 1B*	308				White	Gypsum board
308 - 1C*	308				White	Gypsum board
308 - 2A	308				White	Joint compound
308 - 2B*	308				White	Joint compound
308 - 2C*	308				White	Joint compound
308 - 3A	308		Wall - Stipple		White	Texture
308 - 3B*	308		Wall - Stipple		White	Texture
308 - 3C*	308		Wall - Stipple		White	Texture
308 - 4A	308				Grey	Plaster
Turn around time: 72 hours Sample relinquished by: Elizabeth Aguilar Date: 9-18-13 Time: 3:36				Sample received by: Print name: Elizabeth Aguilar Date: 9-19-13 Signature: [Signature] Time: 10:20 AM		

• Email all sample results

W

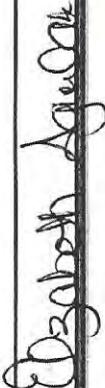
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Sample number	Building or Room number	Project name:		Job number:	Date of collection:
		Mayer/Halff House #308			
		Sample location		Material description	
		Other description, material is in good condition unless otherwise noted		Size	Type of material
308 - 4B*	308			Grey	Plaster
308 - 4C*	308			Grey	Plaster
308 - 5A	308	Brick		Grey	Grout
308 - 5B*	308	Brick		Grey	Grout
308 - 5C*	308	Brick		Grey	Grout
308 - 6A	308	Cove base		Brown	Mastic
308 - 6B*	308	Cove base		Brown	Mastic
308 - 6C*	308	Cove base		Brown	Mastic
308 - 7A	308	Window		White	Caulk
308 - 7B*	308	Window		White	Caulk
Sample relinquished by:					
Print name:	Elizabeth Aguilar		Date:	9-18-13	
Signature:			Date:	9-19-13	
			Print name:	Sara / 1500	
			Signature:		
			Date:	10-2-13	
			Time:	3:36	
			Time:	10:20	

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Sample number	Building or Room number	Project name:		Job number:	Date of collection:
		Mayer/Halff House #308	Sample location		
		Other description, material is in good condition unless otherwise noted		Material description	
				Size	Type of material
308 - 7C*	308	Window		White	Caulk
308 - 8A	308	Restroom		White	Caulk
308 - 8B*	308	Restroom		White	Caulk
308 - 8C*	308	Restroom		White	Caulk
308 - 9A	308	Popcorn		White	Ceiling texture
308 - 9B*	308	Popcorn		White	Ceiling texture
308 - 9C*	308	Popcorn		White	Ceiling texture
308 - 10A	308	TSI		Cream and yellow	Mastic, wrap and insulation
308 - 10B*	308	TSI		Cream and yellow	Mastic, wrap and insulation
308 - 10C*	308	TSI		Cream and yellow	Mastic, wrap and insulation
Sample relinquished by:					
Print name: Elizabeth Aguilar		Date: 9-18-13		Sample received by:	
Signature: Elizabeth Aguilar		Time: 3:36		Print-name: Sarah / SOA	
				Date: 9-19-13	
				Signature: Sarah	
				Time: 10:20	

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Page 4 of 7

Turn around time: 72 hours		Project name: Mayer/Half House #308		Job number: 1309315ARG		Date of collection: 9-18-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
308 - 11A	308	Wall - heavy stipple			White		Texture
308 - 11B*	308	Wall - heavy stipple			White		Texture
308 - 11C*	308	Wall - heavy stipple			White		Texture
308 - 12A	308	Sink			White		Undercoat
308 - 12B*	308	Sink			White		Undercoat
308 - 12C*	308	Sink			White		Undercoat
308 - 13A	308	Weathering			Black		Strip
308 - 13B*	308	Weathering			Black		Strip
308 - 13C*	308	Weathering			Black		Strip
308 - 14A	308	Pipe			Black		Mastic
Print name: Elizabeth Aguilar		Sample relinquished by:		Sample received by:			
Signature: Elizabeth Aguilar		Date: 9-18-13		Print name: SW/SON		Date: 9-19-13	
Time: 3:36		Time: 3:36		Signature: [Signature]		Time: 10:20	

• Email all sample results

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CHAIN OF CUSTODY

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 EPA method 600
 *Positive Stop Count

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Page 5 of 7

Turn around time: 72 hours		Project name: Mayer/Half House #308		Job number: 1309315ARG		Date of collection: 9-18-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
308 - 14B*	308	Pipe			Black	Mastic	
308 - 14C*	308	Pipe			Black	Mastic	
308 - 15A	308	Floor			Grey	Grout	
308 - 15B*	308	Floor			Grey	Grout	
308 - 15C*	308	Floor			Grey	Grout	
308 - 16A	308	12x12"			White w/ black and yellow	Floor tile and mastic	
308 - 16B*	308	12x12"			White w/ black and yellow	Floor tile and mastic	
308 - 16C*	308	12x12"			White w/ black and yellow	Floor tile and mastic	
308 - 17A	308	Floor			Black	Mastic	
308 - 17B*	308	Floor			Black	Mastic	

Print name: Elizabeth Aguilar	Date: 9-18-13	Sample received by:
Signature: Elizabeth Aguilar	Time: 3:36	Print name: Sarah
		Signature: [Signature]
		Date: 9-19-13
		Time: 10:07

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Sample number	Building or Room number	Project name:		Job number:	Date of collection:
		Mayer/Halff House #308			
		Sample location		Material description	
		Other description, material is in good condition unless otherwise noted		Size	Type of material
308 - 17C*	308	Floor		Black	Mastic
308 - 18A	308	Riser		White	Caulk
308 - 18B*	308	Riser		White	Caulk
308 - 18C*	308	Riser		White	Caulk
308 - 19A	308	Wall Panel		Yellow	Mastic
308 - 19B*	308	Wall Panel		Yellow	Mastic
308 - 19C*	308	Wall Panel		Yellow	Mastic
308 - 20A	308	Wall - Flat		White	Texture
308 - 20B*	308	Wall - Flat		White	Texture
308 - 20C*	308	Wall - Flat		White	Texture
		Sample relinquished by:		Sample received by:	
Print name: Elizabeth Aguilar		Date: 9-18-13		Print name: SW/SOW	
Signature: Elizabeth Aguilar		Time: 3:36		Date: 9-19-13	
				Time: 10:00	

• Email all sample results

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 CustomerPO:
 ProjectID:

Attn: **Sarah Akeroyd**
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San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/19/13 10:20 AM
 Analysis Date: 9/24/2013
 Collected: 9/18/2013

Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-1A <i>161315089-0001</i>	- GYPSUM BOARD	Brown/White Non-Fibrous Homogeneous	5% Cellulose	90% Gypsum 5% Non-fibrous (other)	None Detected
308-1B <i>161315089-0002</i>	- GYPSUM BOARD	Brown/White Fibrous Heterogeneous	30% Cellulose	65% Gypsum 5% Non-fibrous (other)	None Detected
308-1C <i>161315089-0003</i>	- GYPSUM BOARD	Brown/White Fibrous Heterogeneous	30% Cellulose	65% Gypsum 5% Non-fibrous (other)	None Detected
308-2A <i>161315089-0004</i>	- JOINT COMPOUND	White Non-Fibrous Homogeneous	100% Non-fibrous (other)		None Detected
The sample group is not homogeneous					
308-2B <i>161315089-0005</i>	- JOINT COMPOUND	White Non-Fibrous Homogeneous	100% Non-fibrous (other)		None Detected
Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
308-2C <i>161315089-0006</i>	- JOINT COMPOUND	White Non-Fibrous Homogeneous	100% Non-fibrous (other)		<1% Chrysotile
The sample group is not homogeneous					
308-3A <i>161315089-0007</i>	WALL STIPPLE - TEXTURE	White Non-Fibrous Homogeneous	100% Non-fibrous (other)		None Detected
Inseparable paint / coating layer included in analysis					

Analyst(s)
 Craig Nixon (47)
 Ross Matlock (22)

Richard H. Harding
 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/24/2013 13:45:28

**EMSL Analytical, Inc.**

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<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161315089
 CustomerID: ARGU52
 CustomerPO:
 ProjectID:

Attn: **Sarah Akeroyd** Phone: (210) 493-2560
Argus Environmental Fax: (210) 342-9027
10004 Wurzbach Road Received: 09/19/13 10:20 AM
Suite 247 Analysis Date: 9/24/2013
San Antonio, TX 78230-2214 Collected: 9/18/2013

Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-3B 161315089-0008	WALL STIPPLE - TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
308-3C 161315089-0009	WALL STIPPLE - TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
308-4A-Finish Coat 161315089-0010	- PLASTER	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
308-4A-Base Coat 161315089-0010A	- PLASTER	Gray Non-Fibrous Homogeneous	<1% Cellulose	20% Quartz 80% Non-fibrous (other)	None Detected
308-4B 161315089-0011	- PLASTER	Gray Non-Fibrous Homogeneous	<1% Cellulose	20% Quartz 80% Non-fibrous (other)	None Detected
308-4C 161315089-0012	- PLASTER	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
308-5A 161315089-0013	BRICK - GROUT	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
308-5B 161315089-0014	BRICK - GROUT	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected

Analyst(s)
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 Ross Matlock (22)

Richard H. Harding
 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/24/2013 13:45:28

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 ProjectID:

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Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/19/13 10:20 AM
 Analysis Date: 9/24/2013
 Collected: 9/18/2013

Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-5C 161315089-0015	BRICK - GROUT	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
308-6A 161315089-0016	COVEBASE - MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-6B 161315089-0017	COVEBASE - MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-6C 161315089-0018	COVEBASE - MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-7A 161315089-0019	WINDOW - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-7B 161315089-0020	WINDOW - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-7C 161315089-0021	WINDOW - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-8A 161315089-0022	RESTRM - CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
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 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/24/2013 13:45:28

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Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/19/13 10:20 AM
 Analysis Date: 9/24/2013
 Collected: 9/18/2013

Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-8B <small>161315089-0023</small>	RESTRM - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-8C <small>161315089-0024</small>	RESTRM - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-9A <small>161315089-0025</small>	POPCORN - CEILING TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
The sample group is not homogeneous					
308-9B <small>161315089-0026</small>	POPCORN - CEILING TEXTURE	White Non-Fibrous Homogeneous		60% Mica 40% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
308-9C <small>161315089-0027</small>	POPCORN - CEILING TEXTURE	White Non-Fibrous Homogeneous		60% Mica 40% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
308-10A <small>161315089-0028</small>	TSI - MASTIC, WRAP & INSUL	Gray/Silver Fibrous Homogeneous	30% Cellulose 25% Glass	45% Non-fibrous (other)	None Detected
Insufficient mastic and insulation					
308-10B-Mastic <small>161315089-0029</small>	TSI - MASTIC, WRAP & INSUL	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile

Analyst(s)
 Craig Nixon (47)
 Ross Matlock (22)

Richard H. Harding
 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/24/2013 13:45:28



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205
Phone/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161315089
CustomerID: ARGU52
CustomerPO:
ProjectID:

Attn: **Sarah Akeroyd**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
Fax: (210) 342-9027
Received: 09/19/13 10:20 AM
Analysis Date: 9/24/2013
Collected: 9/18/2013

Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-10B-Wrap <small>161315089-0029A</small>	TSI - MASTIC, WRAP & INSUL	Silver Fibrous Homogeneous	25% Glass 35% Cellulose	40% Non-fibrous (other)	None Detected
308-10B-Insulation <small>161315089-0029B</small>	TSI - MASTIC, WRAP & INSUL	Yellow Fibrous Homogeneous	99% Glass	1% Non-fibrous (other)	None Detected
308-10C-Wrap <small>161315089-0030</small>	TSI - MASTIC, WRAP & INSUL	White/Silver Fibrous Homogeneous	30% Cellulose 25% Glass <small>Insufficient mastic</small>	45% Non-fibrous (other)	None Detected
308-10C-Insulation <small>161315089-0030A</small>	TSI - MASTIC, WRAP & INSUL	Yellow Fibrous Homogeneous	99% Glass	1% Non-fibrous (other)	None Detected
308-11A <small>161315089-0031</small>	WALL HEAVY STIPPLE - TEXTURE	White Non-Fibrous Homogeneous	<small>Inseparable paint / coating layer included in analysis</small>		100% Non-fibrous (other) None Detected
308-11B <small>161315089-0032</small>	WALL HEAVY STIPPLE - TEXTURE	White Non-Fibrous Homogeneous	<small>Inseparable paint / coating layer included in analysis</small>		100% Non-fibrous (other) None Detected
308-11C <small>161315089-0033</small>	WALL HEAVY STIPPLE - TEXTURE	White Non-Fibrous Homogeneous	<small>Inseparable paint / coating layer included in analysis</small>		100% Non-fibrous (other) None Detected
308-12A <small>161315089-0034</small>	SINK - UNDERCOAT	Purple Non-Fibrous Homogeneous	<small>Inseparable paint / coating layer included in analysis</small>		97% Non-fibrous (other) 3% Chrysotile

Analyst(s)

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or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

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Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-12B 161315089-0035	SINK - UNDERCOAT				Stop Positive (Not Analyzed)
308-12C 161315089-0036	SINK - UNDERCOAT				Stop Positive (Not Analyzed)
308-13A 161315089-0037	WEATHERING - STRIP	Gray/Black Fibrous Heterogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
308-13B 161315089-0038	WEATHERING - STRIP	Black/Orange Fibrous Heterogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
308-13C 161315089-0039	WEATHERING - STRIP	Black/Orange Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
308-14A 161315089-0040	PIPE - MASTIC	Black Non-Fibrous Homogeneous		93% Non-fibrous (other)	7% Chrysotile
308-14B 161315089-0041	PIPE - MASTIC				Stop Positive (Not Analyzed)
308-14C 161315089-0042	PIPE - MASTIC				Stop Positive (Not Analyzed)

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Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-15A 161315089-0043	FLOOR - GROUT	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
308-15B 161315089-0044	FLOOR - GROUT	Gray Non-Fibrous Homogeneous	<1% Cellulose <1% Hair	20% Quartz 80% Non-fibrous (other)	None Detected
308-15C 161315089-0045	FLOOR - GROUT	Gray Non-Fibrous Homogeneous	<1% Hair	20% Quartz 80% Non-fibrous (other)	None Detected
308-16A-Floor Tile 161315089-0046	12X12 - FT/M	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
308-16A-Mastic 161315089-0046A	12X12 - FT/M	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-16B-Floor Tile 161315089-0047	12X12 - FT/M	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
308-16B-Mastic 161315089-0047A	12X12 - FT/M	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-16C-Floor Tile 161315089-0048	12X12 - FT/M	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected

Analyst(s)

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Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-16C-Mastic <i>161315089-0048A</i>	12X12 - FT/M	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-17A <i>161315089-0049</i>	FLOOR - MASTIC	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
308-17B <i>161315089-0050</i>	FLOOR - MASTIC	Black Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
308-17C <i>161315089-0051</i>	FLOOR - MASTIC	Black Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-18A <i>161315089-0052</i>	RISER - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-18B <i>161315089-0053</i>	RISER - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-18C <i>161315089-0054</i>	RISER - CAULK	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-19A <i>161315089-0055</i>	WALL PANEL - MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-19B <i>161315089-0056</i>	WALL PANEL - MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-19C <i>161315089-0057</i>	WALL PANEL - MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
308-20A <i>161315089-0058</i>	WALL FLAT - TEXTURE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
308-20B <i>161315089-0059</i>	WALL FLAT - TEXTURE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
308-20C <i>161315089-0060</i>	WALL FLAT - TEXTURE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
308-21A <i>161315089-0061</i>	WINDOW - CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
308-21B <i>161315089-0062</i>	WINDOW - CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
308-21C <i>161315089-0063</i>	WINDOW - CAULK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile

Analyst(s)

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Project: **MAYER/HALFF HOUSE #308 / 1309315ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
308-22A 161315089-0064	BRICK - GROUT	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (other)	None Detected
308-22B 161315089-0065	BRICK - GROUT	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (other)	None Detected
308-22C 161315089-0066	BRICK - GROUT	Gray Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (other)	None Detected

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EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

161315068

EMSL Analytical, Inc.
2001 East 52nd Street

Indianapolis, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Company: Argus Environmental Consultants, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same	
Street: 10004 Wurzbach Road #247		If Bill to is Different note Instructions in Comments**	
City: San Antonio	State/Province: TX	Zip/Postal Code: 78230	Country: United States
Report To (Name): Elizabeth Aguilar		Telephone #: 210-493-2560	
Email Address: beth@argusenvironmental.com		Fax #: 210-342-9027	Purchase Order:
Project Name/Number: 1309315ARG		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: TX		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Elizabeth Aguilar Signature of Sampler: *Elizabeth Aguilar*

Sample #	Location	Volume/Area	Date/Time Sampled
L1	Plaster - wall	Brown	9-18-13; AM
L2	Plaster - wall	White	9-18-13; AM
L3	Gypsum board - wall	White	9-18-13; AM
L4	Wood - window	Stain	9-18-13; AM
L5	Wood - window	Brown	9-18-13; AM

Client Sample #'s: -L1 - L25 Total # of Samples: 25

Relinquished (Client): Elizabeth Aguilar Date: 9-18-2013 Time: 3:59

Received (Lab): *[Signature]* Date: 9-19-13 Time: 10:20

Comments:
Bill To: Argus Environmental Consultants, LLC, 10004 Wurzbach Road #247, San Antonio, TX, 78230, United States
Attention: Sarah Akeroyd Phone: 210-493-2560 Email: beth@argusenvironmental.com Purchase Order:



EMSL ANALYTICAL, INC.
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LEAD (Pb) CHAIN OF CUSTODY
EMSL ORDER ID (Lab Use Only):

161315068

EMSL Analytical, Inc.
2001 East 52nd Street

Indianapolis, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
L6	Wood - wall panel	White	9-18-13; AM
L7	Wood - doorcase	Brown	9-18-13; AM
L8	Wood - floor	White	9-18-13; AM
L9	Wood - wall	Yellow	9-18-13; AM
L10	Wood - cabinet door	Dark stain	9-18-13; AM
L11	Plaster - wall	Tan	9-18-13; AM
L12	Metal - pipe	Green	9-18-13; AM
L13	Plaster - wall	Green	9-18-13; AM
L14	Wood - wall	Tan	9-18-13; AM
L15	Wood - window	Brown	9-18-13; AM
L16	Wood - floor	Grey	9-18-13; AM
L17	Wood - door	Brown	9-18-13; AM
L18	Wood - floor	Stain	9-18-13; AM
L19	Wood - floor	Brown	9-18-13; AM
L20	Wood - stair riser	Red	9-18-13; AM
L21	Wood - window	Tan	9-18-13; AM
L22	Wood - door	Tan	9-18-13; AM
L23	Wood - walls	Black	9-18-13; AM

Comments/Special Instructions:

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<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161315068
 CustomerID: ARGU52
 CustomerPO:
 ProjectID:

Attn: **Elizabeth Aguilar**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/19/13 10:20 AM
 Collected: 9/18/2013

Project: 1309315ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/I7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	9/24/2013	0.017 % wt	0.21 % wt	Site: Plaster - wall Desc: Brown <i>Collected: 9/18/2013</i>
<i>Client Sample L1</i>				
0002	9/24/2013	0.010 % wt	0.14 % wt	Site: Plaster - wall Desc: White <i>Collected: 9/18/2013</i>
<i>Client Sample L2</i>				
0003	9/24/2013	0.010 % wt	<0.010 % wt	Site: Gypsum board - wall Desc: White <i>Collected: 9/18/2013</i>
<i>Client Sample L3</i>				
0004	9/24/2013	0.50 % wt	18 % wt	Site: Wood - window Desc: Stain <i>Collected: 9/18/2013</i>
<i>Client Sample L4</i>				
0005	9/24/2013	0.40 % wt	6.3 % wt	Site: Wood - window Desc: Brown <i>Collected: 9/18/2013</i>
<i>Client Sample L5</i>				
0006	9/24/2013	0.010 % wt	<0.010 % wt	Site: Wood - wall panel Desc: White <i>Collected: 9/18/2013</i>
<i>Client Sample L6</i>				
0007	9/24/2013	0.50 % wt	23 % wt	Site: Wood - doorcase Desc: Brown <i>Collected: 9/18/2013</i>
<i>Client Sample L7</i>				
0008	9/24/2013	0.60 % wt	11 % wt	Site: Wood - floor Desc: White <i>Collected: 9/18/2013</i>
<i>Client Sample L8</i>				
0009	9/24/2013	0.40 % wt	13 % wt	Site: Wood - wall Desc: Yellow <i>Collected: 9/18/2013</i>
<i>Client Sample L9</i>				
0010	9/24/2013	0.13 % wt	1.0 % wt	Site: Wood - cabinet door Desc: Dark Stain <i>Collected: 9/18/2013</i>
<i>Client Sample L10</i>				

Doug Wiegand, Laboratory Manager
 or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040



EMSL Analytical, Inc.

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Phone: (210) 493-2560
Fax: (210) 342-9027
Received: 09/19/13 10:20 AM
Collected: 9/18/2013

Project: 1309315ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/I7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0011	9/24/2013	0.10 % wt	0.55 % wt	Site: Plaster - wall Desc: Tan <i>Collected: 9/18/2013</i>
<i>Client Sample L11</i>				
0012	9/24/2013	0.13 % wt	2.2 % wt	Site: Metal - pipe Desc: Green <i>Collected: 9/18/2013</i>
<i>Client Sample L12</i>				
0013	9/24/2013	0.028 % wt	1.1 % wt	Site: Plaster - wall Desc: Green <i>Collected: 9/18/2013</i>
<i>Client Sample L13</i>				
0014	9/24/2013	0.40 % wt	9.6 % wt	Site: Wood - wall Desc: Tan <i>Collected: 9/18/2013</i>
<i>Client Sample L14</i>				
0015	9/24/2013	0.40 % wt	13 % wt	Site: Wood - window Desc: Brown <i>Collected: 9/18/2013</i>
<i>Client Sample L15</i>				
0016	9/24/2013	0.10 % wt	3.2 % wt	Site: Wood - floor Desc: Grey <i>Collected: 9/18/2013</i>
<i>Client Sample L16</i>				
0017	9/24/2013	0.20 % wt	4.4 % wt	Site: Wood - door Desc: Brown <i>Collected: 9/18/2013</i>
<i>Client Sample L17</i>				
0018	9/24/2013	0.061 % wt	0.35 % wt	Site: Wood - floor Desc: Stain <i>Collected: 9/18/2013</i>
<i>Client Sample L18</i>				
0019	9/24/2013	0.20 % wt	6.3 % wt	Site: Wood - floor Desc: Brown <i>Collected: 9/18/2013</i>
<i>Client Sample L19</i>				
0020	9/24/2013	0.50 % wt	18 % wt	Site: Wood - stair riser Desc: Red <i>Collected: 9/18/2013</i>
<i>Client Sample L20</i>				

Doug Wiegand, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Initial report from 10/03/2013 08:07:07

Test Report PB w/RDL-7.26.0 Printed: 10/3/2013 8:07:07 AM

Page 2 of 3

**EMSL Analytical, Inc.**

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Phone: (210) 493-2560
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Project: 1309315ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/I7000B)

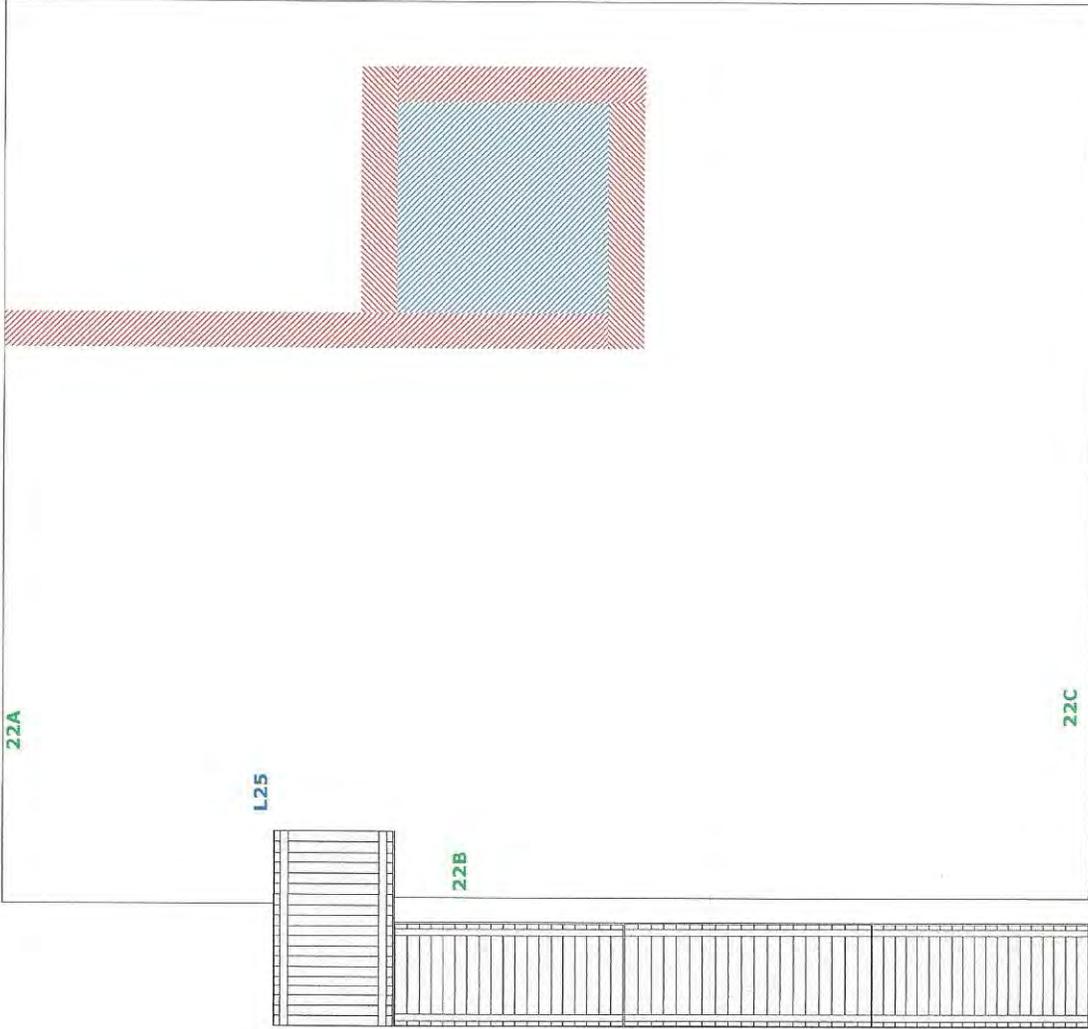
Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0021	9/24/2013	0.10 % wt	1.9 % wt	Site: Wood - window Desc: Tan <i>Collected: 9/18/2013</i>
<i>Client Sample L21</i>				
0022	9/24/2013	0.40 % wt	6.7 % wt	Site: Wood - door Desc: Tan <i>Collected: 9/18/2013</i>
<i>Client Sample L22</i>				
0023	9/24/2013	0.40 % wt	16 % wt	Site: Wood - walls Desc: Black <i>Collected: 9/18/2013</i>
<i>Client Sample L23</i>				
0024	9/24/2013	0.10 % wt	1.5 % wt	Site: Wood - walls Desc: Dark Brown <i>Collected: 9/18/2013</i>
<i>Client Sample L24</i>				
0025	9/24/2013	0.010 % wt	<0.010 % wt	Site: Wood - beams Desc: White <i>Collected: 9/18/2013</i>
<i>Client Sample L25</i>				

Doug Wiegand, Laboratory Manager
 or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Mayer/Halff House #308 - Basement

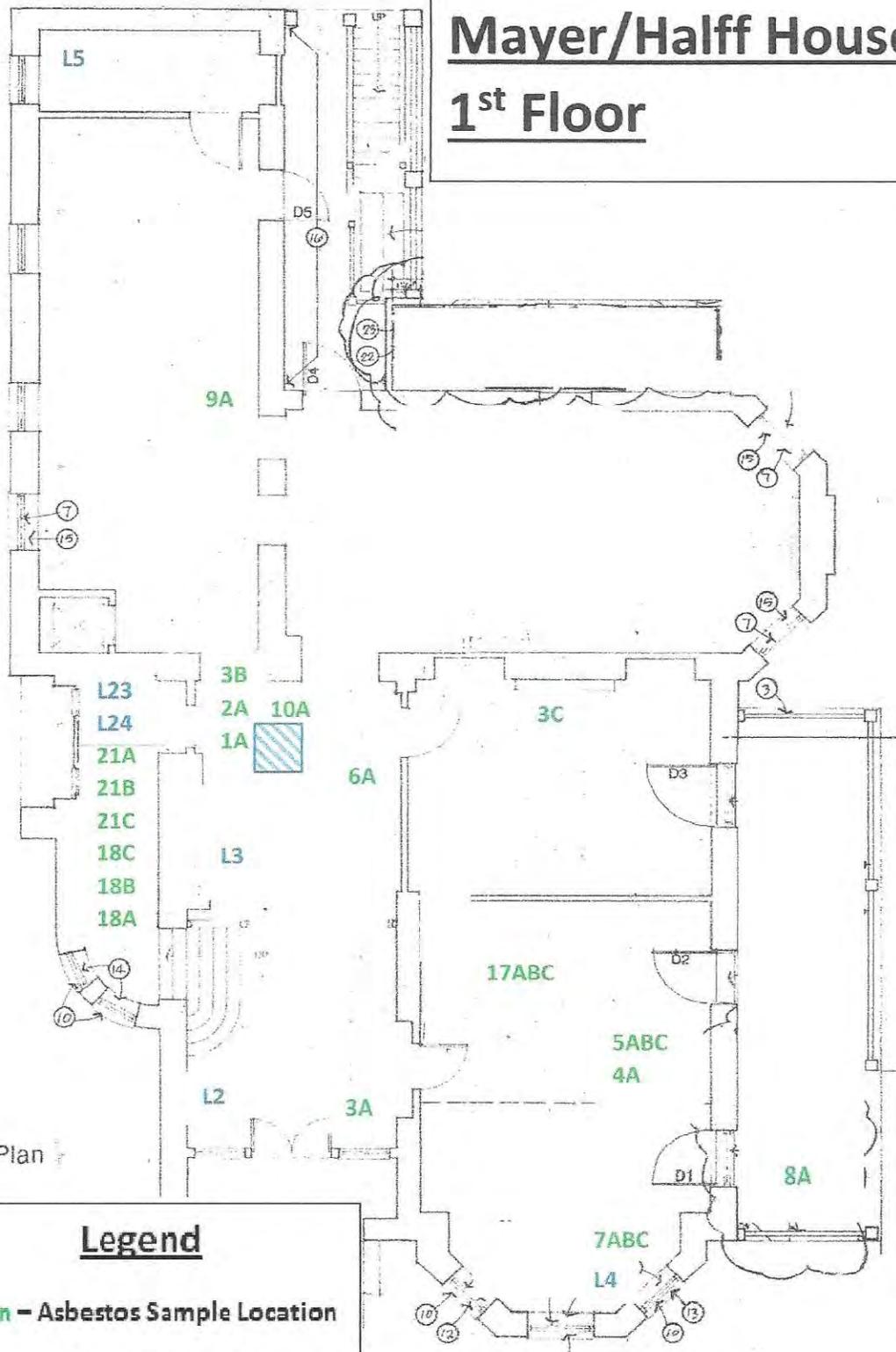


Legend

- Green - Asbestos Sample Location
- Blue - Lead Sample Location
- Red Hatched - ACM Cream/white Thermal System Insulation (TSI): wrap, mastic, and yellow insulation
- Blue Hatched - ACM Black pipe mastic



Mayer/Halff House #308 – 1st Floor



First Floor Plan
1/4" = 1'

2221 sf

2270 sf

891 sf

5382 sf

Legend

Green – Asbestos Sample Location

Blue – Lead Sample Location

 – ACM Cream/white Thermal System Insulation (TSI): wrap, mastic, and yellow insulation

Mayer/Halff House #308 – 2nd Floor

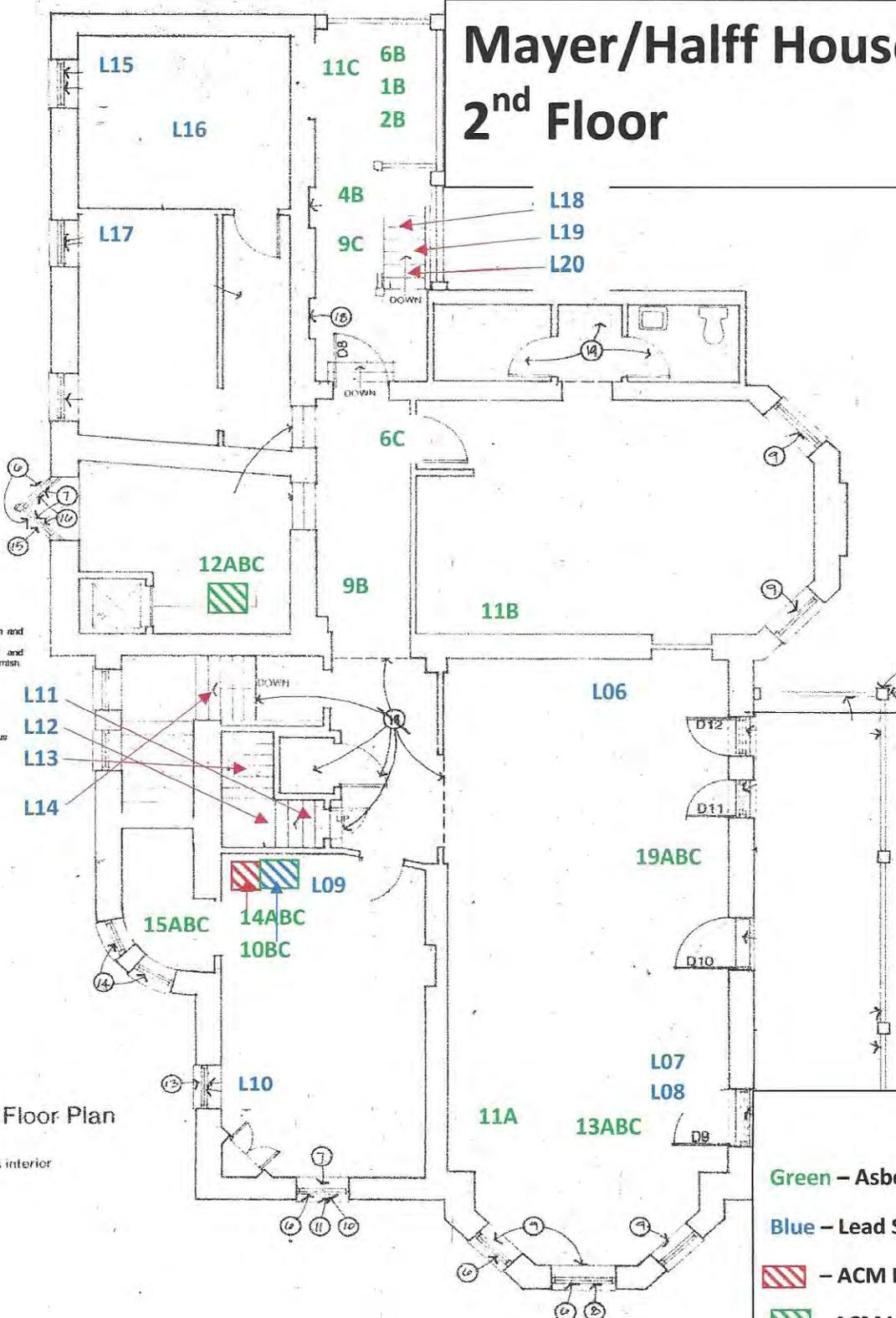
ELEVATION 1

2
6" x 7'-0" door / stain and
finish frame / New head and
sill / strip, stain and varnish

A1: 1
1-1/2 pr.
ad Stop: 1
stripping: 1 set
form: 1
hd: Wood (Oak) - cus
h

1 Second Floor Plan
1/4" = 1'

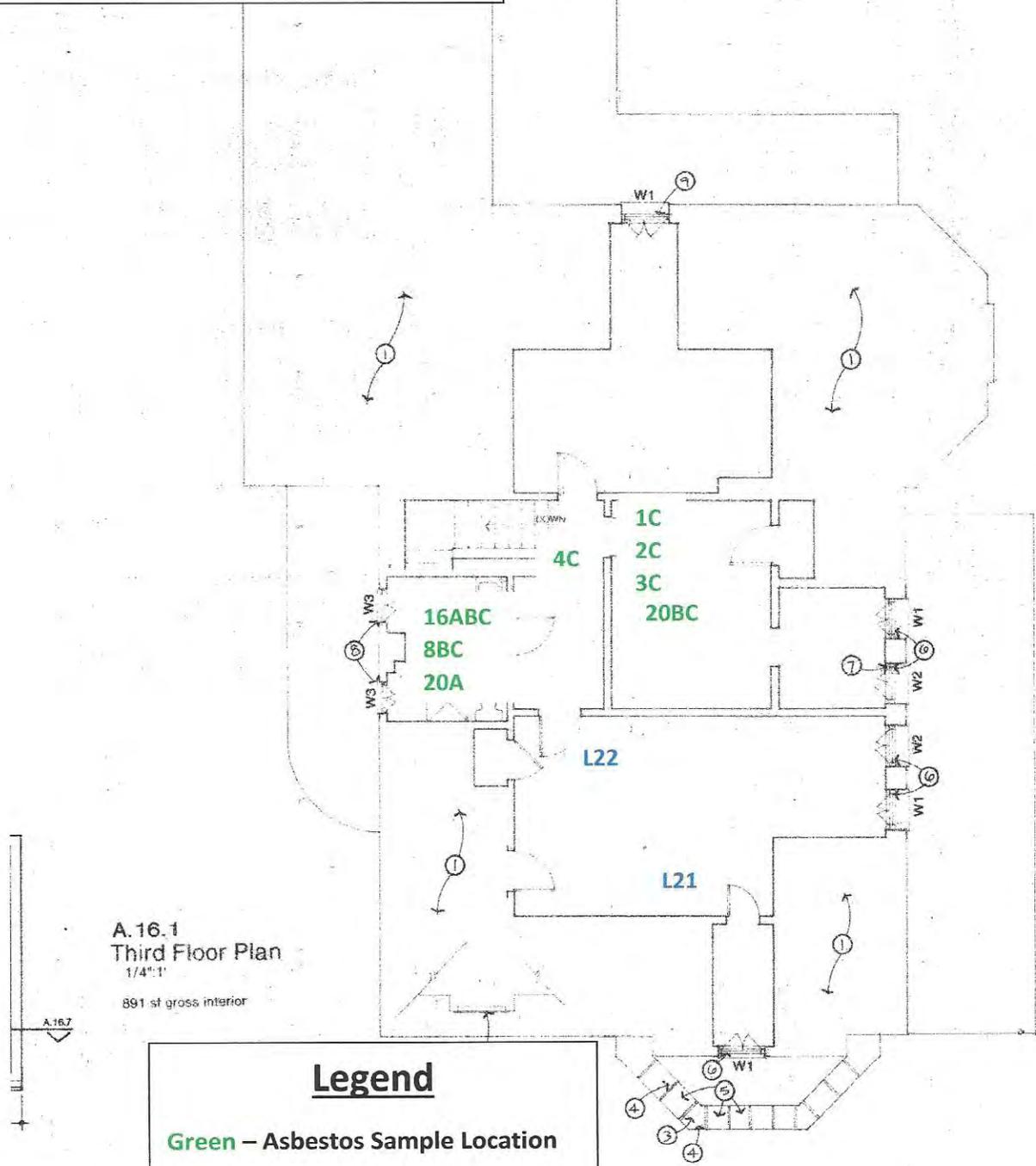
2270 sf gross interior



Legend

- Green – Asbestos Sample Location
- Blue – Lead Sample Location
- ▨ – ACM Black pipe mastic
- ▨ - ACM White sink undercoat
- ▨ - ACM Cream/white Thermal System Insulation (TSI): wrap, mastic, and yellow insulation

Mayer/Halff House #308 – 3rd Floor



A.16.1
Third Floor Plan
1/4"=1'
891 sq gross interior

Legend

Green – Asbestos Sample Location

Blue – Lead Sample Location

September 13, 2013

Project No: 1308286ARG

Mr. Bruce Wik
 Weston Solutions
 70 NE Loop 410, Suite 600
 Phone: (210) 308-4300
 Email: Bruce.Wik@WestonSolutions.com

RE: LIMITED ASBESTOS AND LEAD BASED PAINT SURVEY FOR THE ACOSTA/HALFF HOUSE #234, HEMISFAIR PARK HISTORICAL HOMES, LOCATED IN SAN ANTONIO, TEXAS

Dear Mr. Wik:

Argus Environmental Consultants, LLC was contacted by Weston Solutions to perform a limited asbestos and lead based paint survey of the materials within the Acosta/Halff House #234 located in San Antonio, Texas.

The Scope of Services included in the limited Asbestos Survey consisted of the following:

- Visual evaluation of the interior finish materials.
- Identification of suspect asbestos containing materials (ACM) into homogeneous areas.
- Random collection of bulk samples from building materials that potentially contain asbestos.
- Laboratory analysis of building materials by a third party lab licensed by the Texas Department of State Health Services (DSHS).
- Analysis by Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Method 600.

The Scope of Services included in the limited Lead Based Paint Survey consisted of the following:

- Visual evaluation of the exterior and interior paint finishes.
- Identification of suspect paint into homogeneous areas.
- Random collection of bulk samples from paint that potentially contains lead.
- Laboratory analysis of paint by a third party lab certified by the EPA.
- Analysis by Flame Atomic Absorption using EPA Method SW846-7000B.

Argus Environmental's entire liability pertaining to this report and all work associated with it is limited to the INVOICED amount defined within the Scope of Services.



Indoor Air Quality

Mold

Asbestos

Lead

Industrial Hygiene

Clandestine Drug Assessment & Remediation

OSHA Compliance

Occupational & Environmental Health & Safety

Training

Expert Testimony

Pre-Purchase Inspections

Environmental Site Assessments-Phase I, II & III

Environmental Impact Assessments

Wetlands Delineation

Property Transaction Due Diligence Screening

Forensics

Thermal Imaging Water Intrusion Failure Analysis



HUB

•

Small Women Owned Business

This report has been prepared for the exclusive use of the Weston Solutions, Inc. and the City of San Antonio and their assigned agents. It and all contents, findings, conclusions and recommendations expressed herein are not intended for any other purpose than that stated nor is intended to be used by any other party.

The asbestos survey was performed on August 16, 2013 by Mark D. Freemyer Texas DSHS Asbestos Consultant License #105695.

The lead based paint survey was performed on August 16, 2013 by Robert W. Miller Texas DSHS Lead Risk Assessor License #2070094.

The following asbestos homogenous areas were identified and bulk samples collected:

1. Grey surface texture on plaster wall
2. Grey plaster
3. Cream + black pipe wrap
4. White gypsum board + Joint compound
5. Grey acoustic ceiling tile
6. White gypsum board
7. White joint compound
8. White surface texture
9. White surface texture on plaster wall
10. Heating, ventilating and air conditioning (HVAC) black duct mastic
11. HVAC white vibration damper
12. Red/black carpet mastic

The following building painted surfaces were identified as potentially containing lead and were sampled:

1. Interior door frames – brown/green
2. Interior inside back door – green/grey
3. Interior walls – grey
4. Interior ceiling – yellow
5. Interior metal ceiling – dark yellow
6. Interior window frames – brown/cream
7. Interior window frames – lt. brown/white
8. Exterior trim – tan
9. Exterior trim – orange
10. Exterior trim – dark green
11. Exterior porch ceiling – blue
12. Interior 2nd Floor stair hall – brown/yellow
13. Interior trim 2nd Floor – lt. green
14. Interior walls – lt. yellow/white
15. Interior 2nd wainscot front middle – red

16. Interior trim doorframe – dark blue
17. Interior 2nd Floor wall – dark green
18. Interior 2nd Floor women's restroom – pink/tan/white
19. Interior 2nd Floor men's restroom – blue/green
20. Interior 2nd Floor stairs to 3rd Floor – red
21. Interior 2nd Floor wall front middle – pea green
22. Interior 3rd Floor wall – olive
23. Interior 3rd Floor wall – white
25. Interior 1st Floor metal ceiling – yellow/tan

Conclusions:

Asbestos

ACM were found in the following materials:

4. Joint compound (2% Chrysotile) - Sample #234-4ABC; ~560 Square Feet – Foyer, 1st Floor northwest room; Good condition; Non-friable
10. HVAC black duct mastic (25% Chrysotile) – Sample #234-10ABC; ~180 Linear Feet – Attic; Good condition; Non-friable
11. White vibration damper (3% Chrysotile) – Sample #234-11ABC; x1 - Attic; Good condition; Non-friable

ACM not regulated by the Texas DSHSe were found by PLM in the following materials:

7. Joint compound (<1% Chrysotile) – Sample #234-7ABC; 2nd Floor restrooms & 3rd Floor walls and ceilings
8. White surface texture (<1% Chrysotile) – Sample #234-8ABC; 2nd Floor restrooms & 3rd Floor walls and ceilings
9. White surface texture on plaster wall (<1% Chrysotile) – Sample #234-9A; 2nd Floor to 3rd Floor Stairwell walls and ceilings

Lead Based Paint

Greater than the EPA's minimum regulatory level of 0.5% by weight (wt.) was identified by laboratory analysis in the following samples:

1. Interior door frames – brown/green (10% wt.)
2. Interior inside back door – green/grey (18% wt.)
3. Interior walls – grey (6.7% wt.)
5. Interior metal ceiling – dark yellow (25% wt.)
6. Interior window frames – brown/cream (5.8wt.)
7. Interior window frames – lt. brown/white (7.7% wt.)
8. Exterior trim – tan (18% wt.)

9. Exterior trim – orange (12% wt.)
13. Interior trim 2nd Floor – lt. green (20% wt.)
15. Interior 2nd Floor front middle – red (22% wt.)
16. Interior trim doorframe – dark blue (13% wt.)
17. Interior 2nd Floor wall – dark green (0.92% wt.)
18. Interior 2nd Floor women's restroom – pink/tan/white (20% wt.)
20. Interior 2nd Floor stairs to 3rd Floor – red (25% wt.)
21. Interior 2nd Floor wall front middle – pea green (20% wt.)
24. Interior 1st Floor metal ceiling – yellow/tan (23% wt.)

Recommendations:

Asbestos

Abate ACM in accordance with the Texas DSHS regulations as required.

Inform contractors involved with the renovation that non-regulated ACM was identified. Regulations from the Occupational Safety and Health Administration's 29 CFR 1926.1101 apply.

Lead Based Paint

Inform contractors involved with the renovation that lead based paint components were identified prior so that appropriate personal protective measures are taken to adequately protect workers. If material components are to be removed, disposed, then additional testing using the Toxicity Characteristic Leaching Procedure (TCLP) will be required for waste characterization.

Please do not hesitate to contact Argus Environmental with any questions or comments regarding the on-site survey or the findings contained within this report.

Sincerely,
For Argus Environmental Consultants, LLC.



Mark D. Freemyer
Texas DSHS Asbestos Consultant License #105695 (Exp. 6/12/2014)



Robert W. Miller

Texas DSHS Asbestos Consultant #105237 (Exp. 8/19/2015)

Texas DSHS Lead Risk Assessor #2070094 (Exp. 8/4/2014)



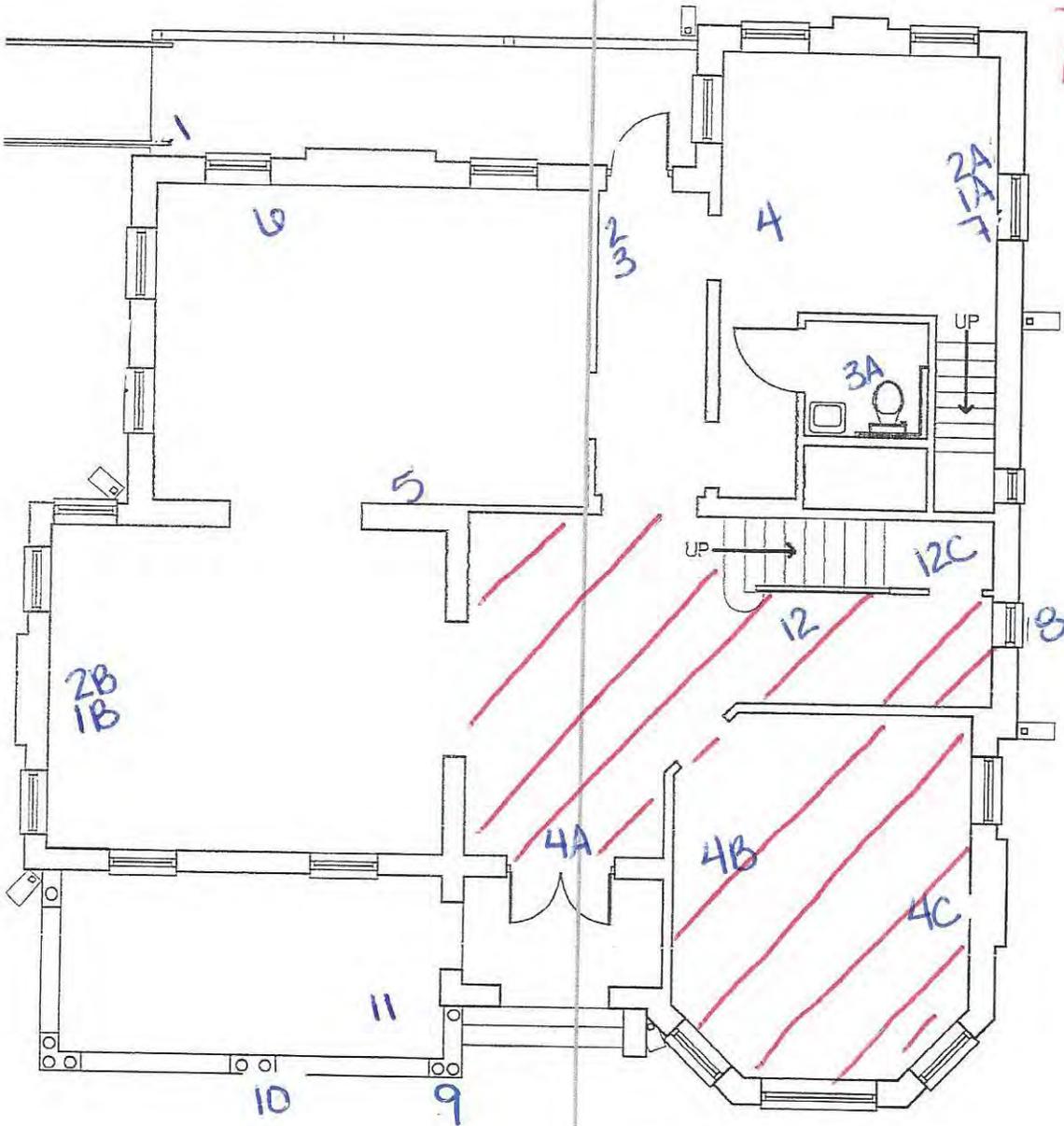
- Attachments:
- 1) EMSL Analytical, Inc.'s EPA 600 PLM Asbestos Sample Results 8/22/2013
 - 2) EMSL Analytical, Inc.'s Lead-Based Paint Sample Results 8/21/2013
 - 3) Floor Plan indicating sample locations

ie Galveston and New York
the owners of the house were

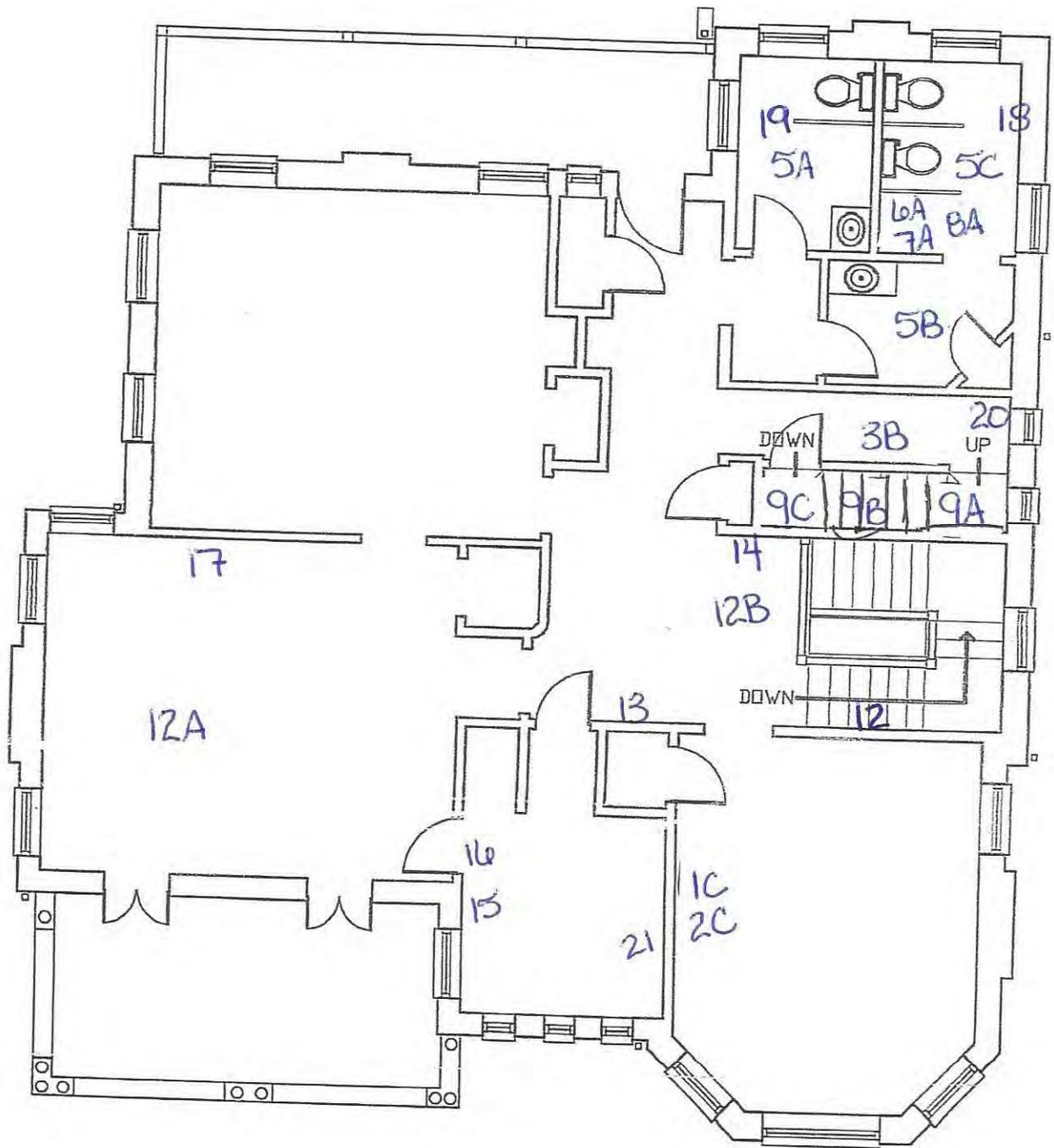
Certificate, filed 18 January 1924.
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js Files, "HemisFair Houses," let-
Mayor Henry Cisneros (29 April

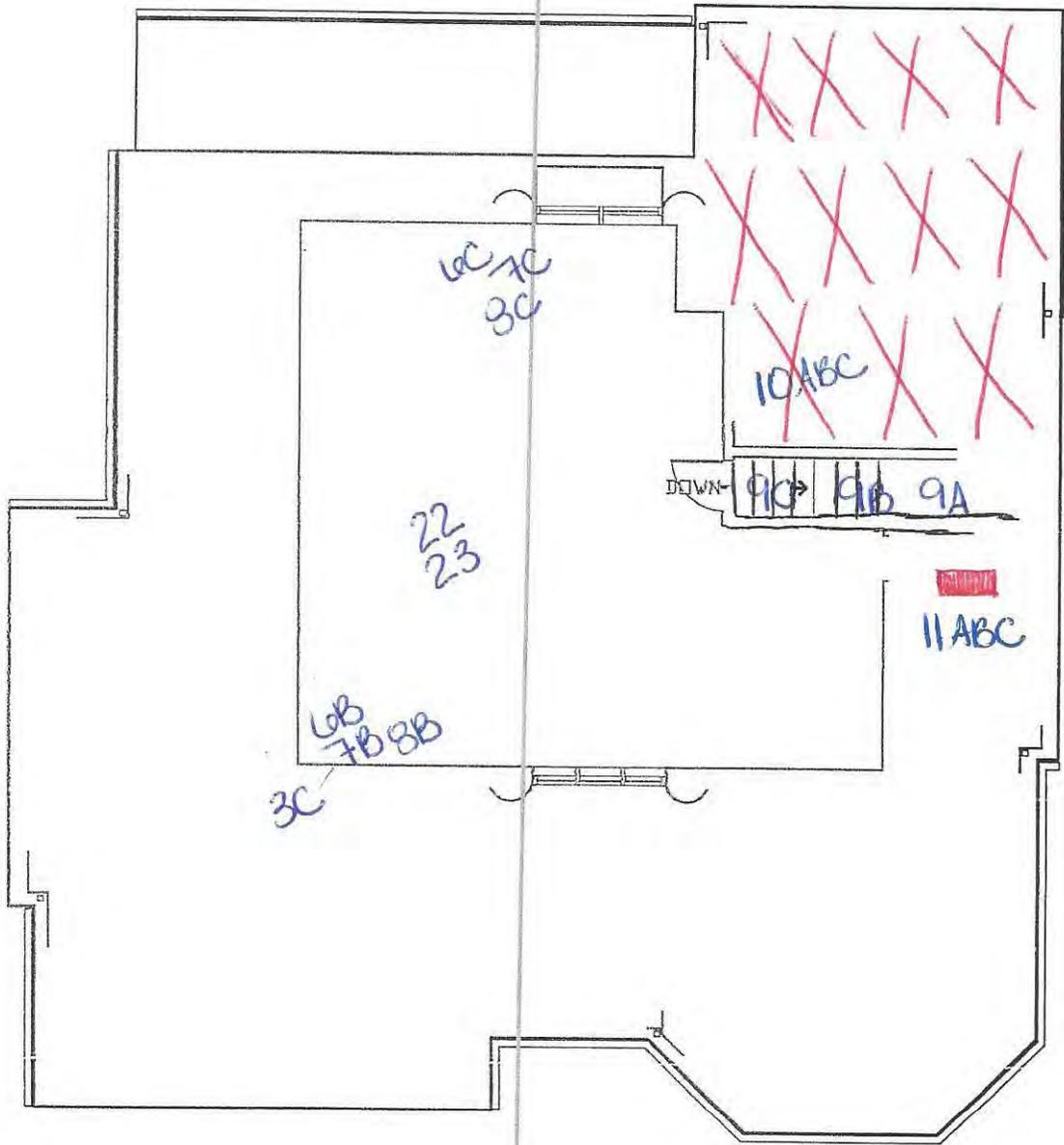
LEGEND
III - ACM
Joint
Compound



FIRST FLOOR PLAN
1/8" = 1'-0"



SECOND FLOOR PLAN
 1/8" = 1'-0"



THIRD FLOOR PLAN
1/8" = 1'-0"

LEGEND

XX - Attic, ACM Black
HVAC Mastic

 - Attic, ACM white
Vibration Damper



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205

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<http://www.EMSL.com>

indianapolislab@emsl.com

EMSL Order:	161313216
CustomerID:	ARGU52
CustomerPO:	
ProjectID:	

Attn: Mark Freemyer Argus Environmental 10004 Wurzbach Road Suite 247 San Antonio, TX 78230-2214	Phone: (210) 493-2560 Fax: (210) 342-9027 Received: 08/19/13 8:10 AM Analysis Date: 8/22/2013 Collected: 8/16/2013
Project: ACOSTA/HALFF HOUSE / 1308286ARG	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
234-1A 161313216-0001	PLASTER WALL SYS - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
234-1B 161313216-0002	PLASTER WALL SYS - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
234-1C 161313216-0003	PLASTER WALL SYS - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
234-2A 161313216-0004	WALL SYSTEM - PLASTER	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (other)	None Detected
234-2B 161313216-0005	WALL SYSTEM - PLASTER	Gray Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (other)	None Detected
234-2C 161313216-0006	WALL SYSTEM - PLASTER	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (other)	None Detected
234-3A 161313216-0007	THERMAL SYSTEM - PIPE WRAP	Brown/Silver Fibrous Heterogeneous	50% Cellulose 10% Glass	40% Non-fibrous (other)	None Detected
234-3B 161313216-0008	THERMAL SYSTEM - PIPE WRAP	Brown/Silver Fibrous Heterogeneous	50% Cellulose 10% Glass	40% Non-fibrous (other)	None Detected

Analyst(s)

 Craig Nixon (23)
 Jadda Moffett (10)

Richard H. Harding
 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 14:08:42

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>indianapolislab@emsl.com

EMSL Order: 161313216

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
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San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/19/13 8:10 AM
 Analysis Date: 8/22/2013
 Collected: 8/16/2013

Project: ACOSTA/HALFF HOUSE / 1308286ARG

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
234-3C 161313216-0009	THERMAL SYSTEM - PIPE WRAP	Brown/Silver Fibrous Heterogeneous	50% Cellulose 10% Glass	40% Non-fibrous (other)	None Detected
234-4A-Drywall 161313216-0010	CEILING SYSTEM - GYP BRD & JC	Brown/White Fibrous Heterogeneous	75% Cellulose	15% Gypsum 10% Non-fibrous (other)	None Detected
234-4A-Joint Compound 161313216-0010A	CEILING SYSTEM - GYP BRD & JC	White/Yellow Non-Fibrous Homogeneous	98% Non-fibrous (other)		2% Chrysotile
Inseparable paint / coating layer included in analysis					
234-4B-Drywall 161313216-0011	CEILING SYSTEM - GYP BRD & JC	Brown/White Fibrous Heterogeneous	25% Cellulose	70% Gypsum 5% Non-fibrous (other)	None Detected
234-4B-Joint Compound 161313216-0011A	CEILING SYSTEM - GYP BRD & JC				Stop Positive (Not Analyzed)
234-4C-Drywall 161313216-0012	CEILING SYSTEM - GYP BRD & JC	Brown/White Fibrous Heterogeneous	20% Cellulose	70% Gypsum 10% Non-fibrous (other)	None Detected
234-4C-Joint Compound 161313216-0012A	CEILING SYSTEM - GYP BRD & JC				Stop Positive (Not Analyzed)
234-5A 161313216-0013	CEILING SYSTEM - ACOUSTIC TILE	Tan/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	15% Perlite 5% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (23)
 Jadda Moffett (10)

Richard Harding, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 14:08:42

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205

Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>indianapolislab@emsl.com

EMSL Order: 161313216

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/19/13 8:10 AM
 Analysis Date: 8/22/2013
 Collected: 8/16/2013

Project: ACOSTA/HALFF HOUSE / 1308286ARG

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos			Asbestos	
			%	Fibrous	%	Non-Fibrous	% Type
234-5B <small>161313216-0014</small>	CEILING SYSTEM - ACOUSTIC TILE	Tan/White	40%	Cellulose	15%	Perlite	None Detected
		Fibrous Homogeneous	40%	Min. Wool	5%	Non-fibrous (other)	
234-5C <small>161313216-0015</small>	CEILING SYSTEM - ACOUSTIC TILE	Tan/White	40%	Cellulose	15%	Perlite	None Detected
		Fibrous Homogeneous	40%	Min. Wool	5%	Non-fibrous (other)	
234-6A <small>161313216-0016</small>	WALL SYSTEM - GYPSUM BOARD	Brown/White	30%	Cellulose	65%	Gypsum	None Detected
		Fibrous Heterogeneous	<1%	Glass	5%	Non-fibrous (other)	
234-6B <small>161313216-0017</small>	WALL SYSTEM - GYPSUM BOARD	Brown/White	25%	Cellulose	70%	Gypsum	None Detected
		Fibrous Heterogeneous			5%	Non-fibrous (other)	
234-6C <small>161313216-0018</small>	WALL SYSTEM - GYPSUM BOARD	Brown/White	20%	Cellulose	70%	Gypsum	None Detected
		Fibrous Heterogeneous			10%	Non-fibrous (other)	
234-7A <small>161313216-0019</small>	WALL SYSTEM - JNT COMPND	White			100%	Non-fibrous (other)	<1% Chrysotile
		Non-Fibrous Homogeneous					
234-7B <small>161313216-0020</small>	WALL SYSTEM - JNT COMPND	White			100%	Non-fibrous (other)	<1% Chrysotile
		Non-Fibrous Homogeneous					
234-7C <small>161313216-0021</small>	WALL SYSTEM - JNT COMPND	White			100%	Non-fibrous (other)	<1% Chrysotile
		Non-Fibrous Homogeneous					

Analyst(s)

Craig Nixon (23)
 Jadda Moffett (10)

Richard Harding, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 14:08:42



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205
 Phone/Fax: (317) 803-2997 / (317) 803-3047
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EMSL Order: 161313216
 CustomerID: ARGU52
 CustomerPO:
 ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

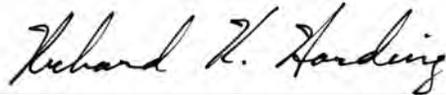
Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/19/13 8:10 AM
 Analysis Date: 8/22/2013
 Collected: 8/16/2013

Project: ACOSTA/HALFF HOUSE / 1308286ARG

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
234-8A 161313216-0022	WALL SYSTEM - SURFACE TEXTURE	White/Pink Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
234-8B 161313216-0023	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
234-8C 161313216-0024	WALL SYSTEM - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis					
234-9A 161313216-0025	PLASTER WALL SYS - SURFACE TEXTURE	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	<1% Chrysotile
Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
234-9B 161313216-0026	PLASTER WALL SYS - SURFACE TEXTURE	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
234-9C 161313216-0027	PLASTER WALL SYS - SURFACE TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis The sample group is not homogeneous					
234-10A 161313216-0028	HVAC SYSTEM DUCT - MASTIC	White Fibrous Homogeneous	50% Cellulose	25% Non-fibrous (other)	25% Chrysotile

Analyst(s)
 Craig Nixon (23)
 Jadda Moffett (10)


 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 14:08:42



EMSL Analytical, Inc.

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<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161313216
 CustomerID: ARGU52
 CustomerPO:
 ProjectID:

Attn: **Mark Freemyer**
Argus Environmental
10004 Wurzbach Road
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San Antonio, TX 78230-2214

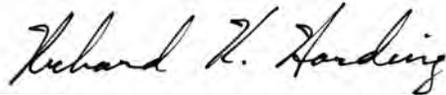
Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/19/13 8:10 AM
 Analysis Date: 8/22/2013
 Collected: 8/16/2013

Project: ACOSTA/HALFF HOUSE / 1308286ARG

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
234-10B 161313216-0029	HVAC SYSTEM DUCT - MASTIC				Stop Positive (Not Analyzed)
234-10C 161313216-0030	HVAC SYSTEM DUCT - MASTIC				Stop Positive (Not Analyzed)
234-11A 161313216-0031	HVAC SYSTEM DUCT - VIBRATION DAMPER	Black Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
Sample does not match description on COC.					
234-11B 161313216-0032	HVAC SYSTEM DUCT - VIBRATION DAMPER				Stop Positive (Not Analyzed)
234-11C 161313216-0033	HVAC SYSTEM DUCT - VIBRATION DAMPER				Stop Positive (Not Analyzed)
234-12A 161313216-0034	FLOOR SYS CARPET - CARPET MASTIC	Tan/White/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
234-12B 161313216-0035	FLOOR SYS CARPET - CARPET MASTIC	Red/Black Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected
234-12C 161313216-0036	FLOOR SYS CARPET - CARPET MASTIC	Gray/Red/Black Fibrous Homogeneous	90% Synthetic	10% Non-fibrous (other)	None Detected

Analyst(s)
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 Jadda Moffett (10)


 Richard Harding, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 08/22/2013 14:08:42

161313216

EMSL Analytical, Inc.

2001 E 52nd Street
Indianapolis, IN 46205
Phone: (317) 803-2997
Fax: (317) 803- 3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
EPA method 600
*Positive Stop Count

Argus Environmental
10004 Wurzbach Rd., #247
San Antonio, Texas 78230
Phone (210) 493-2560
Fax (210) 342-9027
mark@argusenvironmental.com
beth@argusenvironmental.com

Page 1 of 4

Turn around time: 72 Hour		Project name: Acosta/Half House		Job number: 1308286ARG		Date of collection: 8-16-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
234-1A	234	PLASTER WALL SYSTEMS			GREY	SURFACE TEXTURE	
234-1B*	234	PLASTER WALL SYSTEMS			GREY	SURFACE TEXTURE	
234-1C*	234	PLASTER WALL SYSTEMS			GREY	SURFACE TEXTURE	
234-2A	234	WALL SYSTEMS			GREY	PLASTER	
234-2B*	234	WALL SYSTEMS			GREY	PLASTER	
234-2C*	234	WALL SYSTEMS			GREY	PLASTER	
234-3A	234	THERMAL SYSTEMS			CREAM + BLACK	PIPE WRAP	
234-3B*	234	THERMAL SYSTEMS			CREAM + BLACK	PIPE WRAP	
234-3C*	234	THERMAL SYSTEMS			CREAM + BLACK	PIPE WRAP	
234-4A	234	CEILING SYSTEMS			WHITE	GYPSUM BOARD + JOINT COMPOUND	
Sample relinquished by:				Sample received by:			
Print name: Mark D Freemyer		Date: 8-16-13		Print name: <i>S. Brown</i>		Date: 8-19-13	
Signature: <i>Mark D Freemyer</i>		Time: 1800		Signature: <i>S. Brown</i>		Time: 8:10	

• Email all sample results

30

13216

EMSL Analytical, Inc.
2001 E 52nd Street
Indianapolis, IN 46205
Phone: (317) 803-2997
Fax: (317) 803- 3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
EPA method 600
*Positive Stop Count

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Page 2 of 4-

Turn around time: 72 Hour		Project name: Acosta/Half House		Job number: 1308286ARG		Date of collection: 8-16-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted		Size	Color	Type of material	
234-4B*	234	CEILING SYSTEMS			WHITE	GYPSUM BOARD + JOINT COMPOUND	
234-4C*	234	CEILING SYSTEMS			WHITE	GYPSUM BOARD + JOINT COMPOUND	
234-5A	234	CEILING SYSTEMS			GREY	ACOUSTIC TILE	
234-5B*	234	CEILING SYSTEMS			GREY	ACOUSTIC TILE	
234-5C*	234	CEILING SYSTEMS			GREY	ACOUSTIC TILE	
234-6A	234	WALL SYSTEMS			WHITE	GYPSUM BOARD	
234-6B*	234	WALL SYSTEMS			WHITE	GYPSUM BOARD	
234-6C*	234	WALL SYSTEMS			WHITE	GYPSUM BOARD	
234-7A	234	WALL SYSTEMS			WHITE	JOINT COMPOUND	
234-7B*	234	WALL SYSTEMS			WHITE	JOINT COMPOUND	
Sample relinquished by:							
Print name: Mark D Freemyer		Date: 8-16-13		Sample received by:			
Signature: <i>Mark D Freemyer</i>		Time: 1800		Print name: <i>SB</i>		Date: 8-19	
Signature: <i>Mark D Freemyer</i>		Time: 1800		Signature: <i>SB</i>		Time: 8:10	

• Email all sample results

13210

EMSL Analytical, Inc.
2001 E 52nd Street
Indianapolis, IN 46205
Phone: (317) 803-2997
Fax: (317) 803- 3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
EPA method 600
*Positive Stop Count

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Page 3 of 4

Turn around time: 72 Hour		Project name: Acosta/Half House		Job number: 1308286ARG		Date of collection: 8-16-13	
Sample number	Building or Room number	Sample location		Material description			
		Other description, material is in good condition unless otherwise noted	Size	Color	Type of material		
234-7C*	234	WALL SYSTEMS			WHITE	JOINT COMPOUND	
234-8A	234	WALL SYSTEMS			WHITE	SURFACE TEXTURE	
234-8B*	234	WALL SYSTEMS			WHITE	SURFACE TEXTURE	
234-8C*	234	WALL SYSTEMS			WHITE	SURFACE TEXTURE	
234-9A	234	PLASTER WALL SYSTEMS			WHITE	SURFACE TEXTURE	
234-9B*	234	PLASTER WALL SYSTEMS			WHITE	SURFACE TEXTURE	
234-9C*	234	PLASTER WALL SYSTEMS			WHITE	SURFACE TEXTURE	
234-10A	234	HVAC SYSTEM DUCT			BLACK	MASTIC	
234-10B*	234	HVAC SYSTEM DUCT			BLACK	MASTIC	
234-10C*	234	HVAC SYSTEM DUCT			BLACK	MASTIC	
Print name: Mark D Freemyer		Sample relinquished by:		Print name: SPB		Sample received by:	
Signature: 		Date: 8-16-13		Date: 8-19		Time: 8:00	
Signature: 		Time: 1800		Time: 8:00			

• Email all sample results

**EMSL Analytical, Inc.**

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Phone/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com>indianapolislab@emsl.com

EMSL Order: 161313258

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Elizabeth Aguilar**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/21/13 9:30 AM
 Collected: 8/16/2013

Project: 1308286ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	8/27/2013	0.50 % wt	10 % wt	Site: Int. door frames Desc: Brown/green <i>Collected:</i> 8/16/2013
<i>Client Sample 1</i>				
0002	8/27/2013	0.50 % wt	18 % wt	Site: Int. Rt. Inside back door Desc: Green/grey <i>Collected:</i> 8/16/2013
<i>Client Sample 2</i>				
0003	8/27/2013	1.0 % wt	6.7 % wt	Site: Int. walls Desc: grey <i>Collected:</i> 8/16/2013
<i>Client Sample 3</i>				
0004	8/27/2013	0.010 % wt	0.045 % wt	Site: Int. ceiling Desc: yellow <i>Collected:</i> 8/16/2013
<i>Client Sample 4</i>				
0005	8/27/2013	1.0 % wt	25 % wt	Site: Int. Metal Ceiling Desc: Dk. Yellow <i>Collected:</i> 8/16/2013
<i>Client Sample 5</i>				
0006	8/27/2013	0.50 % wt	5.8 % wt	Site: Int. Window frames Desc: Brown/cream <i>Collected:</i> 8/16/2013
<i>Client Sample 6</i>				
0007	8/27/2013	0.50 % wt	7.7 % wt	Site: Int. Window frames Desc: Lt. Brown/white <i>Collected:</i> 8/16/2013
<i>Client Sample 7</i>				
0008	8/27/2013	0.50 % wt	18 % wt	Site: Ext. Trim Desc: Tan <i>Collected:</i> 8/16/2013
<i>Client Sample 8</i>				
0009	8/27/2013	0.50 % wt	12 % wt	Site: Ext. Trim Desc: Orange <i>Collected:</i> 8/16/2013
<i>Client Sample 9</i>				
0010	8/27/2013	0.014 % wt	<0.014 % wt	Site: Ext. Trim Desc: Dk. Green <i>Collected:</i> 8/16/2013
<i>Client Sample 10</i>				

Doug Wiegand, Laboratory Manager
 or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Initial report from 09/04/2013 08:37:01

Test Report PB w/RDL-7.26.0 Printed: 9/4/2013 8:37:01 AM

Page 1 of 3

**EMSL Analytical, Inc.**

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EMSL Order: 161313258

CustomerID: ARGU52

CustomerPO:

ProjectID:

Attn: **Elizabeth Aguilar**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/21/13 9:30 AM
 Collected: 8/16/2013

Project: 1308286ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0011	8/27/2013	0.016 % wt	0.049 % wt	Site: Ext. Porch ceiling Desc: Blue <i>Collected: 8/16/2013</i>
<i>Client Sample 11</i>				
0012	8/27/2013	0.010 % wt	0.24 % wt	Site: Int. 2nd FL. Stair Hall Desc: Brown/yellow <i>Collected: 8/16/2013</i>
<i>Client Sample 12</i>				
0013	8/27/2013	0.50 % wt	20 % wt	Site: Int. Trim 2nd FL Desc: Lt. Green <i>Collected: 8/16/2013</i>
<i>Client Sample 13</i>				
0014	8/27/2013	0.010 % wt	0.015 % wt	Site: Int. walls Desc: Lt. Yellow/white <i>Collected: 8/16/2013</i>
<i>Client Sample 14</i>				
0015	8/27/2013	0.50 % wt	22 % wt	Site: Int. 2nd wanscott Front Mid. Desc: Red <i>Collected: 8/16/2013</i>
<i>Client Sample 15</i>				
0016	8/27/2013	0.50 % wt	13 % wt	Site: Int. Trim door frame Desc: Dk. Blue <i>Collected: 8/16/2013</i>
<i>Client Sample 16</i>				
0017	8/27/2013	0.10 % wt	0.92 % wt	Site: Int. wall Desc: Dk. Green <i>Collected: 8/16/2013</i>
<i>Client Sample 17</i>				
0018	8/27/2013	1.0 % wt	20 % wt	Site: Int. Women's RR Desc: Pink/tan/white <i>Collected: 8/16/2013</i>
<i>Client Sample 18</i>				
0019	8/27/2013	0.010 % wt	0.24 % wt	Site: Int. Men's RR Desc: Blue/green <i>Collected: 8/16/2013</i>
<i>Client Sample 19</i>				
0020	8/27/2013	1.0 % wt	25 % wt	Site: Int. 2nd stairs to 3rd Desc: Red <i>Collected: 8/16/2013</i>
<i>Client Sample 20</i>				

Doug Wiegand, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

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10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 08/21/13 9:30 AM
 Collected: 8/16/2013

Project: 1308286ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0021	8/27/2013	0.50 % wt	20 % wt	Site: Int. 2nd wall Front middle Desc: Pea green <i>Collected: 8/16/2013</i>
<i>Client Sample 21</i>				
0022	8/27/2013	0.010 % wt	0.010 % wt	Site: Int. 3rd wall Desc: Olive <i>Collected: 8/16/2013</i>
<i>Client Sample 22</i>				
0023	8/27/2013	0.010 % wt	0.32 % wt	Site: Int. 3rd wall Desc: White <i>Collected: 8/16/2013</i>
<i>Client Sample 23</i>				
0024	8/27/2013	0.50 % wt	23 % wt	Site: 1st Metal Ceiling Desc: Yellow/tan <i>Collected: 8/16/2013</i>
<i>Client Sample 25</i>				

Doug Wiegand, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

161313258

EMSL Analytical, Inc.
2001 East 52nd Street

Indianapolis, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Company: Argus Environmental Consultants, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 10004 Wurzbach Road #247		<i>Third Party Billing requires written authorization from third party</i>	
City: San Antonio	State/Province: TX	Zip/Postal Code: 78230	Country: United States
Report To (Name): Elizabeth Aguilar		Telephone #: 210-493-2560	
Email Address: beth@argusenvironmental.com		Fax #: 210-342-9027	Purchase Order:
Project Name/Number: 1308286ARG		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: TX		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Robert W. Miller Signature of Sampler: [Signature]

Sample #	Location	Volume/Area	Date/Time Sampled
1	Interior Door Frames	Brown / Green	8-10-13 / AM
2	Interior Rt. & Inside Back Door	Green / Grey	↓
3	Interior Walls	Grey	
4	Interior Ceiling	Yellow	
5	Interior Metal Ceiling	Dark Yellow	

Client Sample #'s: 1-25 Total # of Samples: 24

Relinquished (Client): [Signature] Date: 8-20-13 Time: 10:18 AM

Received (Lab): [Signature] Date: 8-21-13 Time: 9:30

Comments:
 Bill To: Argus Environmental Consultants, LLC, 10004 Wurzbach Road #247, San Antonio, TX, 78230, United States
 Attention: Sarah Akeroyd Phone: 210-493-2560 Email: beth@argusenvironmental.com Purchase Order:



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

13258

EMSL Analytical, Inc.
2001 East 52nd Street

Indianapolis, IN 46205

PHONE: (317) 803-2997

FAX: (317) 803-3047

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
6	Interior Window Frames	Brown/Cream	8-16-13/AM
7	Interior Window Frames	Lt. Brown/white	↓
8	Exterior Trim	Tan	
9	Exterior Trim	Orange	
10	Exterior Trim	Dark Green	
11	Exterior Porch Ceiling	Blue	
12	Interior 2 nd Fl. Stair Hall	Brown/Yellow	
13	Interior Trim 2 nd Fl.	Lt. Green	
14	Interior Walls	Lt. Yellow/white	
15	Interior 2 nd Walnut Front/Mid.	Red	
16	Interior Trim Doorframe	Dark Blue	
17	Interior 2 nd Wall	Dark Green	
18	Interior 2 nd Women's RR	Pink/Tan/white	
19	Interior 2 nd Men's RR	Blue/Green	
20	Interior 2 nd Stairs to 3 rd	Red	
21	Interior 2 nd wall Front Middle	Pea Green	
22	Interior 3 rd Wall Wall	Olive	
23	Interior 3 rd Wall	White	

Comments/Special Instructions:
 Bill To: Argus Environmental Consultants, LLC, 10004 Wurzbach Road #247, San Antonio, TX, 78230, United States
 Attention: Sarah Akeroyd Phone: 210-493-2560 Email: beth@argusenvironmental.com Purchase Order:

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November 4, 2013

Project No: 1309314ARG

Mr. Bruce Wik
Weston Solutions
70 NE Loop 410, Suite 600
Phone: (210) 308-4300
Email: Bruce.Wik@WestonSolutions.com

RE: LIMITED ASBESTOS AND LEAD BASED PAINT SURVEY FOR THE SMITH HOUSE #251, HEMISFAIR PARK HISTORICAL HOMES, LOCATED IN SAN ANTONIO, TEXAS

Dear Mr. Wik:

Argus Environmental Consultants, LLC was contacted by Weston Solutions to perform a limited asbestos and lead based paint survey of the materials within the Smith House #251 located in San Antonio, Texas.

The Scope of Services included in the limited Asbestos Survey consisted of the following:

- Visual evaluation of the interior finish materials.
- Identification of suspect asbestos containing materials (ACM) into homogeneous areas.
- Random collection of bulk samples from building materials that potentially contain asbestos.
- Laboratory analysis of building materials by a third party lab licensed by the Texas Department of State Health Services (DSHS).
- Analysis by Polarized Light Microscopy (PLM) using Environmental Protection Agency (EPA) Method 600.

The Scope of Services included in the limited Lead Based Paint Survey consisted of the following:

- Visual evaluation of the exterior and interior paint finishes.
- Identification of suspect paint into homogeneous areas.
- Random collection of bulk samples from paint that potentially contains lead.
- Laboratory analysis of paint by a third party lab certified by the EPA.
- Analysis by Flame Atomic Absorption using EPA Method SW846-7000B.

Argus Environmental's entire liability pertaining to this report and all work associated with it is limited to the INVOICED amount defined within the Scope of Services.



Indoor Air Quality

Mold

Asbestos

Lead

Industrial Hygiene

Clandestine Drug
Assessment &
Remediation

OSHA Compliance

Occupational &
Environmental
Health & Safety

Training

Expert Testimony

Pre-Purchase
Inspections

Environmental Site
Assessments-
Phase I, II & III

Environmental
Impact Assessments

Wetlands
Delineation

Property
Transaction
Due Diligence
Screening

Forensics

Thermal Imaging
Water Intrusion
Failure Analysis



HUB

•

*Small
Women Owned
Business*

This report has been prepared for the exclusive use of the Weston Solutions, Inc. and the City of San Antonio and their assigned agents. It and all contents, findings, conclusions and recommendations expressed herein are not intended for any other purpose than that stated nor is intended to be used by any other party.

The asbestos survey and lead based paint survey was performed on September 16, 2013 by Bonnie L. Lee Texas DSHS Asbestos Inspector License #602834.

The following asbestos homogenous areas were identified and bulk samples were collected:

Homogenous Area	Description	Sample IDs
1	Gypsum board	251-1ABC
2	Joint compound	251-2ABC
3	Wall texture	251-3ABC
4	White floor tile and back mastic	251-4ABC
5	Cream heating, ventilating and air conditioning (HVAC) mastic	251-5ABC
6	Grey plaster	251-6ABC
7	Grey brick grout	251-7ABC

The following building painted surfaces were identified as potentially containing lead and were sampled:

Sample ID	Description
L01	Front wood door – white
L02	Window frame – white
L03	Window casing wood – white
L04	Front wood door – white
L05	Fireplace plaster – white
L06	Plaster wall – yellow
L07	Concrete floor – purple
L08	Panel wood ceiling – white
L09	Gypsum board wall – white
L10	Paneling wood wall - white
L11	Metal pipe - yellow

Conclusions:Asbestos

No regulated ACM were found in the identified materials.

Lead Based Paint

Greater than the EPA's minimum regulatory level of 0.5% by weight (wt.) was identified by laboratory analysis in the following samples:

Sample ID	Description/Location	Percent (%) Lead by Weight (wt.)
L02	Entry window frame – white	3.8% wt.
L04	Outside restrooms front wood door – white	4.1% wt.
L08	Room with fireplace panel wood ceiling - white	3.3% wt.

Recommendations:Asbestos

Renovations may commence at your convenience.

Lead Based Paint

Inform contractors involved with the renovation that lead based paint components were identified. Any material disturbance by the contractor and associated personnel should be completed by keeping the materials adequately wet with an amended water solution. The contractor should provide appropriate and adequate personal protective equipment for all personnel. Debris and material components that are removed and disposed, should be subjected to additional testing using the Toxicity Characteristic Leaching Procedure (TCLP) for waste characterization. Final clean-up should be accomplished by using a high-efficiency particulate air (HEPA) filtered vacuum.

Should the property ultimately house children six years or younger, then the renovation contractor should be certified by the United States EPA's Lead Based Paint Renovation and Restoration Rule.

Please do not hesitate to contact Argus Environmental with any questions or comments regarding the on-site survey or the findings contained within this report.

Sincerely,
For Argus Environmental Consultants, LLC.



Bonnie L. Lee
Texas DSHS Asbestos Inspector License #602834 (Exp. 9/19/2015)
Texas DSHS Lead Inspector License #2060868 (Exp. 1/09/2015)



Robert W. Miller
Texas DSHS Asbestos Consultant #105237 (Exp. 8/19/2015)
Texas DSHS Lead Risk Assessor #2070094 (Exp. 8/4/2014)



- Attachments:
- 1) EMSL Analytical, Inc.'s EPA 600 PLM Asbestos Sample Results 9/19/2013
 - 2) EMSL Analytical, Inc.'s Lead-Based Paint Sample Results 9/17/2013
 - 3) Floor Plan indicating sample locations

EMSL Analytical, Inc.
 2001 E 52nd Street
 Indianapolis, IN 46205
 Phone: (317) 803-2997
 Fax: (317) 803-3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
 EPA method 600
 *Positive Stop Count

Argus Environmental
 10004 Wurzbach Rd., #247
 San Antonio, Texas 78230
 Phone (210) 493-2560
 Fax (210) 342-9027
 bonnie@argusenvironmental.com
 beth@argusenvironmental.com

161314868

Page 1 of 2

Turn around time: 72 hour		Project name: Smith House		Job number: 1309314ARG	Date of collection: 9/16/2013
Sample number	Building or Room number	Sample location		Material description	
		Other description, material is in good condition unless otherwise noted	Size	Color	Type of material
251-1A	251	Wall system		White	Gypsum board
251-1B*	251	Wall system		White	Gypsum board
251-1C*	251	Wall system		White	Gypsum board
251-2A	251	Wall system		White	Joint Compound
251-2B*	251	Wall system		White	Joint Compound
251-2C*	251	Wall system		White	Joint Compound
251-3A	251	Wall system		White	Wall texture
251-3B*	251	Wall system		White	Wall texture
251-3C*	251	Wall system		White	Wall texture
251-4A	251	Floor system		White + black	Floor tile + mastic
Sample relinquished by:					
Print name: Bonnie Lee		Date: 9/16/2013		Sample received by:	
Signature: <i>Bonnie Lee</i>		Time: 1:45pm		Print name: <i>Tommy Davis</i>	
				Date: 9/17/13	
				Signature: <i>Tommy Davis</i>	
				Time: 10:15 AM	

• Email all sample results

12

EMSL Analytical, Inc.
 2001 E 52nd Street
 Indianapolis, IN 46205
 Phone: (317) 803-2997
 Fax: (317) 803-3047

CHAIN OF CUSTODY

Polarized Light Microscopy (PLM)
 EPA method 600
 *Positive Stop Count

Argus Environmental
 10004 Wurzbach Rd., #247
 San Antonio, Texas 78230
 Phone (210) 493-2560
 Fax (210) 342-9027
 bonnie@argusenvironmental.com
 om
 beth@argusenvironmental.com

161413868

Turn around time: 72 hour		Project name: Smith House	Job number: 1309314ARG	Date of collection: 9/16/2013
Sample number	Building or Room number	Sample location Other description, material is in good condition unless otherwise noted	Material description Color	Type of material
251-4B*	251	Floor system	White + black	Floor tile + mastic
251-4C*	251	Floor system	White + black	Floor tile + mastic
251-5A	251	HVAC	Cream	Mastic
251-5B*	251	HVAC	Cream	Mastic
251-5C*	251	HVAC	Cream	Mastic
251-6A	251	Wall system	Grey	Plaster
251-6B*	251	Wall system	Grey	Plaster
251-6C*	251	Wall system	Grey	Plaster
251-7A	251	Fireplaces Brick	Grey	Grout
251-7B*	251	Fireplaces Brick	Grey	Grout
Sample relinquished by: Bonnie Lee Date: 9/16/2013 Time: 1:45pm				
Sample received by: Jammy Davis Date: 9/17/13 Time: 10:15				

• Email all sample results



EMSL Analytical, Inc.

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<http://www.EMSL.com> indianapolislab@emsl.com

EMSL Order: 161314868
CustomerID: ARGU52
CustomerPO:
ProjectID:

Attn: **Bonnie Lee**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
Fax: (210) 342-9027
Received: 09/17/13 10:15 AM
Analysis Date: 9/19/2013
Collected: 9/16/2013

Project: **Smith House #1309314ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
251-1A 161314868-0001	Wall System - White gypsum board	White Non-Fibrous Homogeneous	2% Glass <1% Cellulose	90% Gypsum 8% Non-fibrous (other)	None Detected
251-1B 161314868-0002	Wall System - White gypsum board	White Non-Fibrous Homogeneous	<1% Cellulose 2% Glass	90% Gypsum 8% Non-fibrous (other)	None Detected
251-1C-Drywall 161314868-0003	Wall System - White gypsum board	White Non-Fibrous Homogeneous	2% Cellulose 2% Glass	90% Gypsum 6% Non-fibrous (other)	None Detected
251-1C-Joint Compound 161314868-0003A	Wall System - White gypsum board	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-2A 161314868-0004	Wall System - White joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-2B 161314868-0005	Wall System - White joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-2C 161314868-0006	Wall System - White joint compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-3A 161314868-0007	Wall System - White wall texture	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Inseparable paint / coating layer included in analysis

Analyst(s)

Craig Nixon (9)
Jadda Moffett (16)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/19/2013 14:30:23



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205
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EMSL Order: 161314868
CustomerID: ARGU52
CustomerPO:
ProjectID:

Attn: **Bonnie Lee**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
Fax: (210) 342-9027
Received: 09/17/13 10:15 AM
Analysis Date: 9/19/2013
Collected: 9/16/2013

Project: **Smith House #1309314ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
251-3B 161314868-0008	Wall System - White wall texture	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
251-3C 161314868-0009	Wall System - White wall texture	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
251-4A-Floor Tile 161314868-0010	Floor System - White & black Floor tile & mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-4A-Mastic 161314868-0010A	Floor System - White & black Floor tile & mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-4B-Floor Tile 161314868-0011	Floor System - White & black Floor tile & mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-4B-Mastic 161314868-0011A	Floor System - White & black Floor tile & mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-4C-Floor Tile 161314868-0012	Floor System - White & black Floor tile & mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
251-4C-Mastic 161314868-0012A	Floor System - White & black Floor tile & mastic	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (9)
Jadda Moffett (16)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/19/2013 14:30:23



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http://www.EMSL.com indianapolislaboratory@emsl.com

EMSL Order: 161314868
CustomerID: ARGU52
CustomerPO:
ProjectID:

Attn: **Bonnie Lee**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
Fax: (210) 342-9027
Received: 09/17/13 10:15 AM
Analysis Date: 9/19/2013
Collected: 9/16/2013

Project: **Smith House #1309314ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
251-5A 161314868-0013	HVAC - Cream Mastic	White/Cream Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
251-5B 161314868-0014	HVAC - Cream Mastic	White/Cream Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (other)	None Detected
251-5C 161314868-0015	HVAC - Cream Mastic	Cream Fibrous Heterogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
251-6A 161314868-0016	Wall System - Grey Plaster	Gray Non-Fibrous Homogeneous	Inseparable paint / coating layer included in analysis		20% Quartz 80% Non-fibrous (other) None Detected
251-6B 161314868-0017	Wall System - Grey Plaster	Gray Non-Fibrous Homogeneous	Inseparable paint / coating layer included in analysis		20% Quartz 80% Non-fibrous (other) None Detected
251-6C 161314868-0018	Wall System - Grey Plaster	White Non-Fibrous Homogeneous	Inseparable paint / coating layer included in analysis		15% Quartz 85% Non-fibrous (other) None Detected
251-7A 161314868-0019	Fireplaces Brick - Grey Grout	Gray Non-Fibrous Homogeneous			20% Quartz 80% Non-fibrous (other) None Detected
251-7B 161314868-0020	Fireplaces Brick - Grey Grout	Gray Non-Fibrous Homogeneous			20% Quartz 80% Non-fibrous (other) None Detected

Analyst(s)

Craig Nixon (9)
Jadda Moffett (16)

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/19/2013 14:30:23



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EMSL Order: 161314868
CustomerID: ARGU52
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ProjectID:

Attn: **Bonnie Lee**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
Fax: (210) 342-9027
Received: 09/17/13 10:15 AM
Analysis Date: 9/19/2013
Collected: 9/16/2013

Project: **Smith House #1309314ARG**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
251-7C <small>161314868-0021</small>	Fireplaces Brick - Grey Grout	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (other)	None Detected

Analyst(s)

Craig Nixon (9)
Jadda Moffett (16)

Richard H. Harding

Richard Harding, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from 09/19/2013 14:30:23



Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

161314847

EMSL Analytical, Inc.
2001 East 52nd Street

Indianapolis, IN 46205
PHONE: (317) 803-2997
FAX: (317) 803-3047

Company: Argus Environmental Consultants, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>		
Street: 10004 Wurzbach Road #247		Third Party Billing requires written authorization from third party		
City: San Antonio	State/Province: TX	Zip/Postal Code: 78230	Country: United States	
Report To (Name): Bonnie Lee		Telephone #: 210-493-2560		
Email Address: beth@argusenvironmental.com		Fax #: 210-342-9027		
Project Name/Number: 1309314ARG		Purchase Order:		
U.S. State Samples Taken: TX		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail		
		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input checked="" type="checkbox"/> 2 Week				
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: Bonnie Lee		Signature of Sampler: <u>Bonnie Lee</u>		
Sample #	Location	Volume/Area	Date/Time Sampled	
L01	front door	white - wood	9/16/13; 1:57pm	
L02	window frame	white - window	9/16/13; 1:57pm	
L03	window casing	white - wood	9/16/13; 1:57pm	
L04	front door	white - wood	9/16/13; 1:57pm	
L05	plaster fireplace	white - plaster	9/16/13; 1:57pm	
Client Sample #'s	-L01-L11	Total # of Samples:	11	
Relinquished (Client):	Bonnie Lee	Date:	9/16/2013	
		Time:	2:00pm	
Received (Lab):	<u>Sammy Davis</u>	Date:	9/18/13	
		Time:		
Comments:				
<small>Bill To: Argus Environmental Consultants, LLC, 10004 Wurzbach Road #247, San Antonio, TX, 78230, United States Attention: Sarah Akeroyd Phone: 210-493-2560 Email: beth@argusenvironmental.com Purchase Order:</small>				



EMSL Analytical, Inc.

2001 East 52nd St., Indianapolis, IN 46205
Phone/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com indianapolislabs@emsl.com

EMSL Order: 161314847
CustomerID: ARGU52
CustomerPO: 1208258
ProjectID:

Attn: **Elizabeth Aguilar** Phone: (210) 493-2560
Argus Environmental Fax: (210) 342-9027
10004 Wurzbach Road Received: 09/17/13 10:15 AM
Suite 247 Collected: 9/16/2013
San Antonio, TX 78230-2214
Project: 1309314ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	9/18/2013	0.021 % wt	<0.021 % wt	Site: front door Desc: white - wood Collected: 9/16/2013
<i>Client Sample</i> L01				
0002	9/18/2013	0.20 % wt	3.8 % wt	Site: Window frame Desc: white - window Collected: 9/16/2013
<i>Client Sample</i> L02				
0003	9/18/2013	0.010 % wt	0.057 % wt	Site: window casing Desc: white - wood Collected: 9/16/2013
<i>Client Sample</i> L03				
0004	9/18/2013	0.40 % wt	4.1 % wt	Site: front door Desc: white - wood Collected: 9/16/2013
<i>Client Sample</i> L04				
0005	9/18/2013	0.010 % wt	<0.010 % wt	Site: plaster fireplace Desc: white - plaster Collected: 9/16/2013
<i>Client Sample</i> L05				
0006	9/18/2013	0.010 % wt	<0.010 % wt	Site: plaster wall Desc: yellow - plaster Collected: 9/16/2013
<i>Client Sample</i> L06				
0007	9/18/2013	0.022 % wt	<0.022 % wt	Site: floor Desc: purple - concrete Collected: 9/16/2013
<i>Client Sample</i> L07				
0008	9/18/2013	0.20 % wt	3.3 % wt	Site: panel ceiling Desc: white - wood Collected: 9/16/2013
<i>Client Sample</i> L08				
0009	9/18/2013	0.010 % wt	<0.010 % wt	Site: wall Desc: white - gypsum board Collected: 9/16/2013
<i>Client Sample</i> L09				
0010	9/18/2013	0.015 % wt	0.18 % wt	Site: paneling wall Desc: white - wood Collected: 9/16/2013
<i>Client Sample</i> L10				

Doug Wiegand, Laboratory Manager
or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

**EMSL Analytical, Inc.**

2001 East 52nd St., Indianapolis, IN 46205
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EMSL Order: 161314847
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Attn: **Elizabeth Aguilar**
Argus Environmental
10004 Wurzbach Road
Suite 247
San Antonio, TX 78230-2214

Phone: (210) 493-2560
 Fax: (210) 342-9027
 Received: 09/17/13 10:15 AM
 Collected: 9/16/2013

Project: 1309314ARG

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0011	9/18/2013	0.022 % wt	<0.022 % wt	Site: pipe Desc: yellow - metal
<i>Client Sample</i> L11				Collected: 9/16/2013

Doug Wiegand, Laboratory Manager
 or other approved signatory

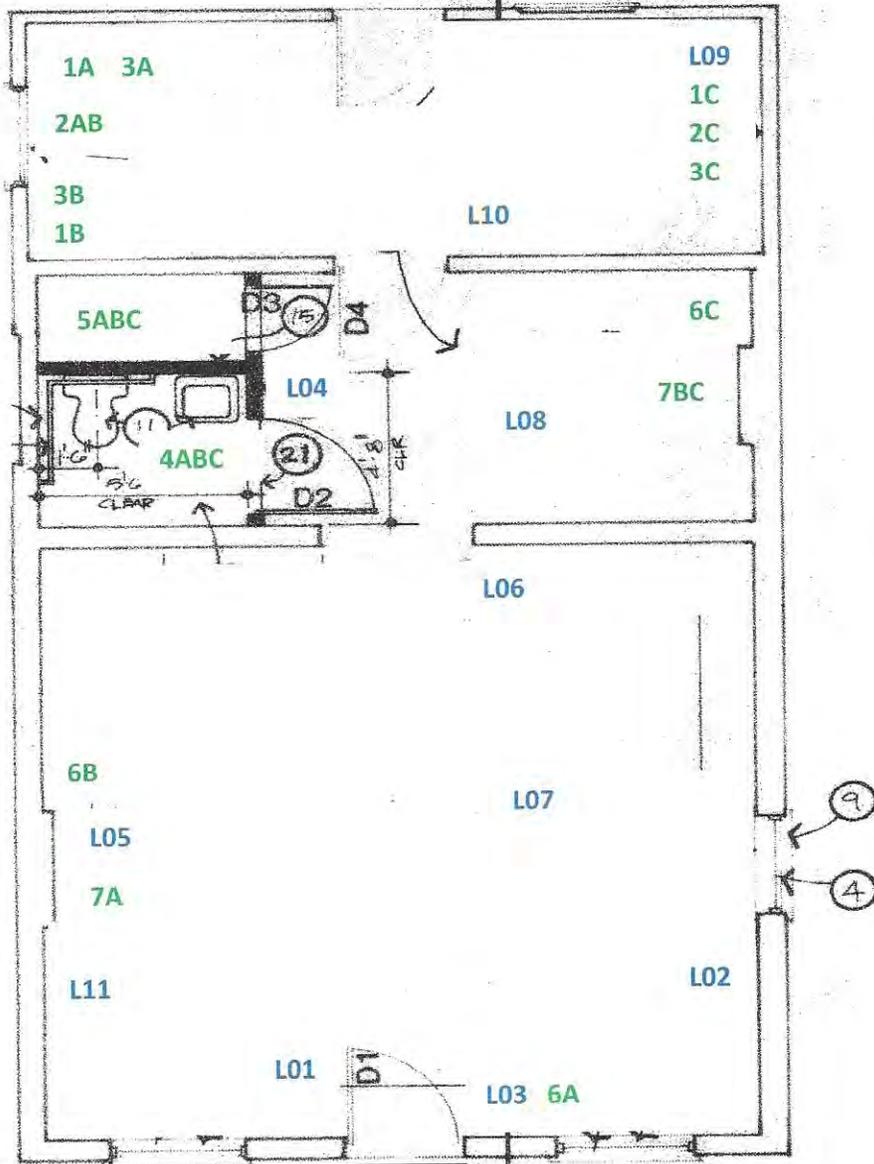
Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

Initial report from 10/01/2013 08:44:14

Test Report PB w/RDL-7.26.0 Printed: 10/1/2013 8:44:14 AM

Smith House #251



Legend

Green – Asbestos Sample Location

Blue – Lead Sample Location

Floor Plan

1/4" = 1'