



SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

August 18, 2014

Mr. Robert Johnston
City of Frederick
30 West Grand Ave.
Frederick, OK 73542

Dear Mr. Johnston:

Attached are the inspection reports and the post-cleanup reports for the Frederick Armory. The inspection reports showed the floors of Room 16 had lead dust levels above the US Department of Housing and Urban Development (HUD) clearance level of $40\mu\text{g}/\text{ft}^2$, and that the door and doorjamb of the shed located south of the Armory were painted with lead-based paint.

The Oklahoma Military Department (OMD) removed the shed door and door jamb and cleaned the floors of Room 16. Sampling by Department of Environmental Quality (DEQ) personnel indicated that the floors had been cleaned below HUD clearance levels.

Information included in this report:

- Inspection Reports
- Lead Confirmation Sampling

If you have any questions or concerns please feel free to contact me at (405) 702-5112.

Sincerely,

A handwritten signature in blue ink that reads 'Brittany R. Downs'.

Brittany R. Downs
Environmental Programs Specialist
Site Cleanup Assistance Program
DEQ Land Protection Division

Enclosures



INSPECTION REPORTS

FREDERICK ARMORY
1801 GLADSTONE AVENUE
FREDERICK, OKLAHOMA 73542

JANUARY 6, 2014

ASBESTOS INSPECTION

SERVICES PROVIDED FOR:

*Oklahoma Department of Environmental Quality
Land Protection Division
Care Of: Dustin Davidson, Environmental Programs Specialist
Post Office Box 1677
Oklahoma City, Oklahoma 73102
405.702.5115
Dustin.davidson@deq.ok.gov*

SERVICES PROVIDED BY:

*Marshall Environmental Management, Incorporated
Attention: Jamie Marshall, Asbestos Project Designer
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
405.616.0401
marshenv@swbell.net*

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CERTIFICATION

This is to certify that, Marshall Environmental Management, Incorporated (MEM) was contracted by the State of Oklahoma Construction and Properties Division, on behalf of the Oklahoma Department of Environmental Quality (ODEQ) Land Protection Division (LPD), to conduct an Asbestos Inspection of the Frederick Armory, located at 1801 Gladstone Avenue in Frederick, Oklahoma. This inspection was performed October 22, 2013 by Jamie Marshall licensed Oklahoma Department of Labor (ODOL) Asbestos Hazard Emergency Response Act (AHERA) Inspector, Management Planner and Project Designer. The findings and analytical data resulting from this inspection are believed to accurately, depict the condition and location of material(s) that contain asbestos on the date this was conducted.



January 6, 2014

Jamie Marshall, M.S.

Date

EPA AHERA Certifications

*Asbestos Inspector/Management Planner
Project Designer*

#703330

#600539

ODOL License

*Management Planner
Project Designer*

#OK-MP400477

#OK-PD400478

LABORATORY ANALYSIS PERFORMED BY

Marshall Environmental Management, Incorporated
1601 Southwest 89th Street, Suite 100-A
Oklahoma City, Oklahoma 73159
Laboratory Accreditation: AIHA PAT ID#102334

FREDERICK ARMORY

ASBESTOS INSPECTION

EXECUTIVE SUMMARY

On October 22, 2013, MEM completed an Asbestos Inspection of the Frederick Armory located at 1801 Gladstone Avenue in Frederick, Oklahoma so that a strategy, that follows the regulations set forth by the Environmental Protection Agency (EPA), may be prepared for the management and/or abatement (i.e. the removal and disposal) of materials that might contain asbestos. The EPA and the ODOL define an Asbestos-Containing Material (ACM) as any material that contains asbestos in concentrations greater than one percent (>1%). As such, no ACM were identified as part of this inspection. An EPA *National Emission Standard for Hazardous Air Pollutants* (NESHAP) *Notification*, however, must be submitted to and approved by the Oklahoma Department of Environmental Quality (ODEQ) ten-business days prior to the commencement of certain abatement/renovation and any demolition activities. Refer to the Chain of Custody and laboratory analyses, included in the Appendix to this report, for the specific sampling locations and associated analytical result. The remainder of this Report is comprised of the Sampling Strategy and Methodology, the Observations and Findings, Recommendations, the Regulatory Review, Limitations of the Survey and the Appendix to this Report.

SAMPLING STRATEGY & METHODOLOGY

Each accessible area throughout the Frederick Armory was systematically inspected in order to collect samples of materials suspected of containing asbestos. The samples collection process includes thoroughly documenting the location, condition, classification and estimated quantity of material(s) suspected of containing asbestos. Suspect ACM that are uniform in color and texture and believed to be applied during the same period are described as *homogenous*. A specified number of samples are collected from a homogenous material and if laboratory analyses determine that the material contains asbestos, the entirety of the homogenous area is considered asbestos containing. Each sample collected was submitted for analysis in accordance with the EPA authorized method 600 49 Code of Federal Regulations (CFR) Part 61 Subpart M, Asbestos NESHAP Rules. The following are examples of the types of materials that were visually inspected and sampled during this asbestos inspection:

SURFACING MATERIAL

- Examples include, but are not limited to, blown or troweled on surfacing material commonly observed on ceilings, walls or structural steel.

THERMAL SYSTEM INSULATION

- Examples include, but are not limited to, insulation on piping, thermal process or Heating Ventilation and Air Conditioning (HVAC) equipment and components.

MISCELLANEOUS MATERIAL

- Examples include, but are not limited, to floor and ceiling tiles, mastics, vinyl sheet-flooring, wallboard, wallboard-tape, and mud or joint compounds.

OBSERVATIONS & FINDINGS

The Frederick Armory is located at 1801 Gladstone Avenue in Frederick, Oklahoma. The Armory is a one-story building with a plaster exterior, flat roof and concrete slab foundation that was constructed circa 1990. No materials were identified as asbestos containing as a result of this inspection.

RECOMMENDATIONS

- An EPA *NESHAP Notification* must be submitted to and approved by the ODEQ ten-business days prior to the commencement of certain abatement/renovation and any demolition activities.

REGULATORY REVIEW

Asbestos Containing Materials are any materials, which consist of >1% asbestos as defined by the EPA Approved Analytical Method 40 CFR Chapter I, Part 763, Subpart F, Appendix C, referred to as *Interim Method for determination of Asbestos in Bulk Insulation Samples*, using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982. Prior to 1980 asbestos was commonly utilized during construction in addition to being found in various building materials. In 1994, OSHA required employers to identify ACM in pre-1980 construction as part of its Standard for Occupational Exposure to Asbestos in Construction (29 CFR 1926.1101). This OSHA standard covers maintenance, repair, and removal functions involving ACM or Presumed ACM (PACM). Without asbestos inspections, owners and/or operators must treat suspected ACM as asbestos containing.

The ODOL regulates the Hazard Communication requirements for public employees as part of the ODOL Public Employees Occupational Safety and Health (PEOSH) Program. The State of Oklahoma Hazard Communication Standard (HAZCOM), revised as of August 2006, is provided in the Oklahoma Asbestos Control Act (OAC) 380 Chapter 45 (http://www.ok.gov/odol/documents/Asbestos_law_rules.pdf). Specific provisions of the OAC Standard (45-15-1) address asbestos notifications and labeling requirements. The labeling requirements specify that asbestos-containing pipe insulation and various equipment insulation, as well as rooms where asbestos is present, be identified with an asbestos warning label. Section 380:45-15-2 requires a notice to employees when ACM are used in acoustical materials on ceilings and walls. This type of ACM is referred to as Surfacing Material. The asbestos warning labels are to be readily visible and include the following warning:

**CAUTION
ASBESTOS - HAZARDOUS
DO NOT DISTURB WITHOUT PROPER
TRAINING & EQUIPMENT**

The EPA requires asbestos inspections in school buildings in grades Kindergarten through 12 as part of the Asbestos Hazard Emergency Response Act (AHERA), which is authorized in 40 CFR 763.6. If asbestos is present within school facilities grades K-12 an Asbestos Management Plan is required by the Local Educational Authority (LEA) to be in place. The AHERA sampling protocol addresses the systematic sample collection of all forms of ACM in addition to categorizing ACM materials as friable Category I or II non-friable. An AHERA Inspection must also evaluate the condition and the potential for disturbance of ACM.

Along with AHERA, the EPA also regulates commercial asbestos abatement activities. A NESHAP notification must be submitted to the Oklahoma Department of Environmental Quality (ODEQ) ten-business days prior to the initiation of any renovation and/or demolition activities where ACM are present in quantities that meet or exceed 160-square feet (ft.²), 260-linear ft. or 35-cubic ft. (ft.³). Instructions regarding NESHAP notification requirements and ODEQ compliance are provided on the DEQ website: <http://www.deq.state.ok.us/odnew/asbestos/index.htm>. Land disposal requirements are also regulated by the EPA through State Landfill Permits. These efforts are now administered by the ODEQ Air Quality and Land Protection regulations. The ODEQ requires the advance filing of a NESHAP notification when any demolition or renovation activities take place. The NESHAP notification process tracks abated ACM to an ODEQ approved landfill on a project-by-project basis.

The ODOL Asbestos Division regulates asbestos abatement by implementing the rules that govern the abatement of friable ACM. Under the ODOL asbestos rule, OAC 380:50, only adequately licensed contractors can perform asbestos abatement, develop management plans and project designs. All abatement supervisors, abatement workers and asbestos inspectors must be licensed by the ODOL. The ODOL Rules are available on the ODOL web site: <http://www.ok.gov/odol/>.

LIMITATIONS OF SURVEY

These asbestos inspections were limited to certain aspects of the building construction. These limitations restricted and/or prevented the complete inspection of hidden or inaccessible building materials. Furthermore, locations presenting a hazard to bystanders or the inspector were not assessed. The findings resulting from these inspections are valid as of the date the inspections were performed. However, changes in the condition of a structure may certainly occur with the passage of time whether due to natural processes or the works of man. Additionally, changes in applicable or appropriate standards may also occur possibly resulting from legislation or the expansion of knowledge.

Our investigation was conducted using the degree of care and skill ordinarily exercised by professional consultants under similar circumstances practicing in this or similar localities. Professional services have been performed; results associated with these asbestos inspections were obtained and reported in accordance with generally accepted principles and practices. No other representations, either expressed or implied, are made. Marshall Environmental Management, Incorporated is not responsible for independent conclusions, opinions or recommendations made by others. It should also be noted that as-built plans were not available for review or use in the planning of these asbestos inspections.

APPENDIX

CHAIN OF CUSTODY & LABORATORY ANALYSES CERTIFICATION/LICENSURE

BULK ASBESTOS CHAIN OF CUSTODY FORM

PROJECT INFORMATION		INVOICE TO				INVOICE TO			
PROJECT ID	0280-AB-102213	CLIENT/ COMPANY	OK. Dept. of Environmental Quality Land Protection Division			CLIENT/ COMPANY	State of OK-OMES Division of Capital Assets Division		
PROJECT TYPE	Asbestos Inspection	ATTENTION	Dustin Davidson Environmental Programs Specialist			ATTENTION	Stacy Haines, CPO Administrative Programs Officer		
PROJECT NAME	Frederick Armory	TITLE	P.O. Box 1677			TITLE	P.O. Box 1677		
PROJECT ADDRESS	1801 Gladstone Avenue Frederick, OK 73542	ADDRESS	Oklahoma City, OK 73102			ADDRESS	Oklahoma City, OK 73102		
SITE CONTACT	Robert Johnson, City Manager	PHONE #	405-702-5115			PHONE #	405-522-4804		
PHONE #	580-335-1551	MOBILE #				MOBILE #			
MOBILE #		ALTERNATE #				ALTERNATE #	405-521-3789		
EMAIL ADDRESS	citymanager@frederickok.org	EMAIL ADDRESS	dustin.davidson@deq.ok.gov			EMAIL ADDRESS	stacy.haines@homas.ok.gov		

LAB #	SAMPLE IDENTIFICATION #		SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0158	10/22/13	PLM-01	Bed Mud	Armory - Room 10 - North	White	Good	Misc.
0158	10/22/13	PLM-02	Bed Tape	Armory - Room 10 - North	White	Good	Misc.
0158	10/22/13	PLM-03	Drywall	Armory - Room 10 - North	White	Good	Misc.
0158	10/22/13	PLM-04	Bed Mud	Armory - Room 19 - South	White	Good	Misc.
0158	10/22/13	PLM-05	Bed Tape	Armory - Room 19 - South	White	Good	Misc.
0158	10/22/13	PLM-06	Drywall	Armory - Room 19 - South	White	Good	Misc.
0158	10/22/13	PLM-07	Bed Mud	Armory - Room 22 - East	White	Good	Misc.
0158	10/22/13	PLM-08	Bed Tape	Armory - Room 22 - East	White	Good	Misc.
0158	10/22/13	PLM-09	Drywall	Armory - Room 22 - East	White	Good	Misc.
0158	10/22/13	PLM-10	Ceiling Tile	Armory - Room 19 - South	White	Good	Misc.

Collected By	Rachel Woods	Date	10-22-13 - 14:00	Relinquished By	N/A
Received By	N/A	Print/Initials		Relinquished By	N/A
		Print/Initials			

TURN-AROUND-TIME		SAMPLE CONDITION		SAMPLE TYPE	
<input checked="" type="checkbox"/> Standard	5-7 Business Days	Good	Good	Misc.	Miscellaneous Material
<input type="checkbox"/> Rush	Next Day	Damaged	Damaged	Surfacing	Surfacing Material
<input type="checkbox"/> Immediate	Same Day	S. Dam	Significantly Damaged	TSI	Thermal System Insulation
		SAMPLE NUMBERS		PAGE NUMBERS	
		1		1 of 4	

MARSHALL ENVIRONMENTAL MANAGEMENT, INCORPORATED
1601 SOUTHWEST 89TH STREET, SUITE A-100
OKLAHOMA CITY, OKLAHOMA 73159

BULK ASBESTOS CHAIN OF CUSTODY FORM

PROJECT INFORMATION		INVOICE TO		INVOICE TO	
PROJECT ID	0280-AB-102213	CLIENT/ COMPANY	OK. Dept. of Environmental Quality Land Protection Division	CLIENT/ COMPANY	State of OK-OMES Division of Capital Assets Division
PROJECT TYPE	Asbestos Inspection	ATTENTION TITLE	Dustin Davidson Environmental Programs Specialist	ATTENTION TITLE	Stacy Haines, CPO Administrative Programs Officer
PROJECT NAME	Frederick Armory	ADDRESS	P.O. Box 1677 Oklahoma City, OK 73102	ADDRESS	P.O. Box 1677 Oklahoma City, OK 73102
PROJECT ADDRESS	1801 Gladstone Avenue Frederick, OK 73542	PHONE #	405-702-5115	PHONE #	405-522-4804
SITE CONTACT	Robert Johnson, City Manager	MOBILE #		MOBILE #	
PHONE #	580-335-1551	ALTERNATE #		ALTERNATE #	405-521-3789
MOBILE #		EMAIL ADDRESS	dustin.davidson@deq.ok.gov	EMAIL ADDRESS	stacy.haines@homes.ok.gov
EMAIL ADDRESS	citymanager@frederickok.org				

LAB #	SAMPLE DATE	FIELD #	SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
					COLOR	CONDITION	TYPE
0158	10/22/13	PLM-11	Ceiling Tile	Armory - Room 22 - North	White	Good	Misc.
0158	10/22/13	PLM-12	Ceiling Tile	Armory - Room 26 - West	White	Good	Misc.
0158	10/22/13	PLM-13	Cove Base	Armory - Room 10 - North	Brown	Good	Misc.
0158	10/22/13	PLM-14	Cove Base Mastic	Armory - Room 10 - North	Yellow	Good	Misc.
0158	10/22/13	PLM-15	Cove Base	Armory - Room 19 - South	Brown	Good	Misc.
0158	10/22/13	PLM-16	Cove Base Mastic	Armory - Room 19 - South	Yellow	Good	Misc.
0158	10/22/13	PLM-17	Cove Base	Armory - Room 22 - West	Brown	Good	Misc.
0158	10/22/13	PLM-18	Cove Base Mastic	Armory - Room 22 - West	Yellow	Good	Misc.
0158	10/22/13	PLM-19	12x12 Floor Tile	Armory - Room 26 - West	Gray	Good	Misc.
0158	10/22/13	PLM-20	Yellow Mastic	Armory - Room 26 - West	Yellow	Good	Misc.

Collected By Rachel Woods	Date 10-22-13 - 14:00	Relinquished By N/A
Received By N/A		

TURN-AROUND-TIME	SAMPLE CONDITION	SAMPLE TYPE
<input checked="" type="checkbox"/> Standard	Good	Miscellaneous Material
<input type="checkbox"/> Rush	Damaged	Surfacing Material
<input type="checkbox"/> Immediate	Significantly Damaged	Thermal System Insulation

MARSHALL ENVIRONMENTAL MANAGEMENT, INCORPORATED
1601 SOUTHWEST 89TH STREET, SUITE A-100
OKLAHOMA CITY, OKLAHOMA 73159

BULK ASBESTOS CHAIN OF CUSTODY FORM

PROJECT INFORMATION			INVOICE TO			INVOICE TO			
PROJECT ID	0280-AB-102213	CLIENT/COMPANY	OK. Dept. of Environmental Quality Land Protection Division	CLIENT/COMPANY	State of OK-OMES Division of Capital Assets Division	PROJECT TYPE	Asbestos Inspection	ATTENTION	Stacy Haines, CPO
PROJECT NAME	Frederick Armory	ATTENTION	Dustin Davidson Environmental Programs Specialist	TITLE	Administrative Programs Officer	PROJECT ADDRESS	1801 Gladstone Avenue Frederick, OK 73542	ADDRESS	P.O. Box 1677 Oklahoma City, OK 73102
SITE CONTACT	Robert Johnson, City Manager	ADDRESS	1801 Gladstone Avenue Frederick, OK 73542	PHONE #	405-702-5115	PHONE #	580-335-1551	MOBILE #	405-522-4804
MOBILE #		MOBILE #		ALTERNATE #		ALTERNATE #		EMAIL ADDRESS	stacy.haines@homes.ok.gov
EMAIL ADDRESS	citymanager@frederickok.org	EMAIL ADDRESS	dustin.davidson@deq.ok.gov	EMAIL ADDRESS					

SAMPLE IDENTIFICATION #		SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION	
LAB #	SAMPLE DATE	FIELD #	COLOR	CONDITION	TYPE
0158	10/22/13	PLM-21	Gray	Good	Misc.
0158	10/22/13	PLM-22	Yellow	Good	Misc.
0158	10/22/13	PLM-23	Gray	Good	Misc.
0158	10/22/13	PLM-24	Yellow	Good	Misc.
0158	10/22/13	PLM-25	White	Good	Misc.
0158	10/22/13	PLM-26	Yellow	Good	Misc.
0158	10/22/13	PLM-27	White	Good	Misc.
0158	10/22/13	PLM-28	Yellow	Good	Misc.
0158	10/22/13	PLM-29	White	Good	Misc.
0158	10/22/13	PLM-30	Yellow	Good	Misc.

Collected By	Rachel Woods	Date	10-22-13 - 14:00	Relinquished By	N/A
Received By	N/A	Print Initials		Print Initials	
		Date	N/A	Date	N/A
		Time		Time	

TURN-AROUND-TIME		SAMPLE CONDITION		SAMPLE TYPE	
<input checked="" type="checkbox"/>	Standard	Good	Good	Misc.	Miscellaneous Material
<input type="checkbox"/>	Rush	Damaged	Damaged	Surfacing	Surfacing Material
<input type="checkbox"/>	Immediate	S. Dam.	Significantly Damaged	TSI	Thermal System Insulation

Print Initials		Date		Print Initials		Date	
Time		Time		Time		Time	

SAMPLE #	N/A	NOTES	N/A
METHOD OF SHIPMENT	N/A	PAGE NUMBERS	3 of 4

MARSHALL ENVIRONMENTAL MANAGEMENT, INCORPORATED
1601 SOUTHWEST 89TH STREET, SUITE A-100
OKLAHOMA CITY, OKLAHOMA 73159

BULK ASBESTOS CHAIN OF CUSTODY FORM

PROJECT INFORMATION		INVOICE TO		INVOICE TO	
PROJECT ID	0280-AB-102213	CLIENT/ COMPANY	OK. Dept. of Environmental Quality Land Protection Division	CLIENT/ COMPANY	State of OK-OMES Division of Capital Assets Division
PROJECT TYPE	Asbestos Inspection	ATTENTION TITLE	Dustin Davidson Environmental Programs Specialist	ATTENTION TITLE	Stacy Haines, CPO Administrative Programs Officer
PROJECT NAME	Frederick Armory	ADDRESS	P.O. Box 1677 Oklahoma City, OK 73102	ADDRESS	P.O. Box 1677 Oklahoma City, OK 73102
PROJECT ADDRESS	1801 Gladstone Avenue Frederick, OK 73542	PHONE #	405-702-5115	PHONE #	405-522-4804
SITE CONTACT	Robert Johnson, City Manager	MOBILE #		MOBILE #	
PHONE #	580-335-1551	ALTERNATE #		ALTERNATE #	405-521-3789
MOBILE #		EMAIL ADDRESS	dustin.davidson@deq.ok.gov	EMAIL ADDRESS	stacy.haines@homes.ok.gov
EMAIL ADDRESS	citymanager@frederickok.org				

LAB #	SAMPLE IDENTIFICATION #		SAMPLE DESCRIPTION	SAMPLE LOCATION	SAMPLE COMPOSITION		
	SAMPLE DATE	FIELD #			COLOR	CONDITION	TYPE
0158	10/22/13	PLM-31	Insulation	Armory - Hot Water Line - Room 4	Yellow	Good	T.S.I.
0158	10/22/13	PLM-32	Insulation	Armory - Hot Water Line - Room 5	Yellow	Good	T.S.I.
0158	10/22/13	PLM-33	Insulation	Armory - Hot Water Line - Room 10	Yellow	Good	T.S.I.
0158	10/22/13	PLM-34	Window Caulk	Shed North of Armory - North	White	Good	Misc.
0158	10/22/13	PLM-35	Window Caulk	Shed North of Armory - South	White	Good	Misc.
0158	10/22/13	PLM-36	Window Caulk	Shed North of Armory - East	White	Good	Misc.

Collected By Rachel Woods	Date 10-22-13 - 14:00	Relinquished By N/A	Print Initials	Date N/A
Received By N/A	Date N/A	Relinquished By N/A	Print Initials	Date N/A

TURN-AROUND-TIME		SAMPLE CONDITION		SAMPLE TYPE	
<input checked="" type="checkbox"/> Standard	5-7 Business Days	Good		Misc.	Miscellaneous Material
<input type="checkbox"/> Rush	Next Day	Damaged		Surfacing	Surfacing Material
<input type="checkbox"/> Immediate	Same Day	S. Dam.	Significantly Damaged	TSI	Thermal System Insulation

MARSHALL ENVIRONMENTAL MANAGEMENT, INC.

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 OKLAHOMA CITY, OK 73159
 PHONE: 405.616.0401 FAX: 405.681.6753

marshemv@swbell.net

**BULK ASBESTOS
 ANALYSIS REPORT**

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0280-AB-102213	Client	Ok. Dept. of Environmental Quality Land Protection Division	Client	State of OK - OMES
Project	Frederick Armory Asbestos Inspection	Attention Title	Dustin Davidson Environmental Program Specialist	Attention Title	Stacy Haines, CPO Administrative Programs Officer
Project Address	1801 Gladstone Avenue Frederick, OK 73542	Address	P.O. Box 1677 Oklahoma City, OK 73102	Address	P.O. Box 534448 Oklahoma City, OK 73102
Contact	Robert Johnson, City Manager	Phone	405-702-5115	Phone	405-522-4804
Phone	580-335-1551	Fax	N/A	Fax	N/A
Cell	N/A	Other	N/A	Other	405-521-3789
email	citymanager@fredrick.org	email	dustin.davidson@deq.ok.gov	email	stacy.haines@homes.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION	PERCENTAGE	TYPE
0158-102213-PLM-01	October 22, 2013	Bed Mud	White	Good	100%	Calcareous Material
		Armory	Good			
		Room 10	Miscellaneous			
		North				
0158-102213-PLM-02	October 22, 2013	Bed Tape	White	Good	100%	Calcareous Material
		Armory	Good			
		Room 10	Miscellaneous			
		North				
0158-102213-PLM-03	October 22, 2013	Drywall	White	Good	2%	Cellulose
		Armory	Good		98%	Calcareous Material
		Room 10	Miscellaneous			
		North				
0158-102213-PLM-04	October 22, 2013	Bed Mud	White	Good	100%	Calcareous Material
		Armory	Good			
		Room 19	Miscellaneous			
		South				
0158-102213-PLM-05	October 22, 2013	Bed Tape	White	Good	100%	Calcareous Material
		Armory	Good			
		Room 19	Miscellaneous			
		South				

Jamie Marshall		November 6, 2013
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:
 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation:
 AIHA PAT ID# 102334

MARSHALL ENVIRONMENTAL MANAGEMENT, INC.

1601 SOUTHWEST 89TH ST., STE. 100-A

OKLAHOMA CITY, OK 73159

PHONE: 405.616.0401 FAX: 405.681.6753

marshcay@swbell.net

BULK ASBESTOS ANALYSIS REPORT

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0280-AB-102213	Client	Ok. Dept. of Environmental Quality Land Protection Division	Client	State of OK - OMES
Project	Frederick Armory Asbestos Inspection	Attention Title	Dustin Davidson Environmental Program Specialist	Attention Title	Stacy Haines, CPO Administrative Programs Officer
Project Address	1801 Gladstone Avenue Frederick, OK 73542	Address	P.O. Box: 1677 Oklahoma City, OK 73102	Address	P.O. Box 534448 Oklahoma City, OK 73102
Contact	Robert Johnson, City Manager	Phone	405-702-5115	Phone	405-522-4804
Phone	580-335-1551	Fax	N/A	Fax	N/A
Cell	N/A	Other	N/A	Other	405-521-3789
email	citymanager@fredrick.org	email	dustin.davidson@deq.ok.gov	email	stacy.haines@homes.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	White		
0158-102213-PLM-06	October 22, 2013	Drywall	CONDITON	Good		2% Cellulose
		Armory	TYPE	Miscellaneous		98% Calcareous Material
		Room 19	NOTE			
		South				
0158-102213-PLM-07	October 22, 2013	Bed Mud	COLOR	White		100% Calcareous Material
		Armory	CONDITON	Good		
		Room 22	TYPE	Miscellaneous		
		East	NOTE			
0158-102213-PLM-08	October 22, 2013	Bed Tape	COLOR	White		100% Calcareous Material
		Armory	CONDITON	Good		
		Room 22	TYPE	Miscellaneous		
		East	NOTE			
0158-102213-PLM-09	October 22, 2013	Drywall	COLOR	White		2% Cellulose
		Armory	CONDITON	Good		98% Calcareous Material
		Room 22	TYPE	Miscellaneous		
		East	NOTE			
0158-102213-PLM-10	October 22, 2013	Ceiling Tile	COLOR	White		20% Cellulose
		Armory	CONDITON	Good		30% perlite
		Room 19	TYPE	Miscellaneous		20% Fibrous Glass
		South	NOTE			30% Calcareous Material

Jamie Marshall		November 6, 2013
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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marshenv@swbell.net

**BULK ASBESTOS
 ANALYSIS REPORT**

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0280-AB-102213	Client	Ok. Dept. of Environmental Quality Land Protection Division	Client	State of OK - OMES
Project	Frederick Armory Asbestos Inspection	Attention Title	Dustin Davidson Environmental Program Specialist	Attention Title	Stacy Haines, CPO Administrative Programs Officer
Project Address	1801 Gladstone Avenue Frederick, OK 73542	Address	P.O. Box 1677 Oklahoma City, OK 73102	Address	P.O. Box 534448 Oklahoma City, OK 73102
Contact	Robert Johnson, City Manager	Phone	405-702-5115	Phone	405-522-4804
Phone	580-335-1551	Fax	N/A	Fax	N/A
Cell	N/A	Other	N/A	Other	405-521-3789
email	citymanager@fredrick.org	email	dustin.davidson@deq.ok.gov	email	stacy.haines@homes.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0158-102213-PLM-11	October 22, 2013	Ceiling Tile	White	Good	20%	Cellulose
		Armory	Good		30%	perlite
		Room 22	Miscellaneous		20%	Fibrous Glass
		North			30%	Calcareous Material
0158-102213-PLM-12	October 22, 2013	Ceiling Tile	White	Good	20%	Cellulose
		Armory	Good		30%	perlite
		Room 26	Miscellaneous		20%	Fibrous Glass
		West			30%	Calcium Carbonate
0158-102213-PLM-13	October 22, 2013	Cove Base	Brown	Good	100%	Rubber
		Armory	Good			
		Room 10	Miscellaneous			
		North				
0158-102213-PLM-14	October 22, 2013	Cove Base Mastic	Yellow	Good	100%	Adhesive
		Armory	Good			
		Room 10	Miscellaneous			
		North				
0158-102213-PLM-15	October 22, 2013	Cove Base	Brown	Good	100%	Rubber
		Armory	Good			
		Room 19	Miscellaneous			
		South				

Jamie Marshall		November 6, 2013
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:
 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light
 Microscopy (PLM), US EPA 600/M4-82-020 1982.

Lab Accreditation:
 AIHA PAT ID# 102334

MARSHALL ENVIRONMENTAL MANAGEMENT, INC.

1601 SOUTHWEST 89TH ST., STE. 100-A
 OKLAHOMA CITY, OK 73159
 PHONE: 405.616.0401 FAX: 405.681.6753
marshenv@swbell.net

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Cell	N/A	Other	N/A	Other	405-521-3789
email	citymanager@fredrick.org	email	dustin.davidson@deq.ok.gov	email	stacy.haines@homes.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0158-102213-PLM-16	October 22, 2013	Cove Base Mastic	Yellow	Good	100%	Adhesive
		Armory				
		Room 19		Miscellaneous		
		South				
0158-102213-PLM-17	October 22, 2013	Cove Base	Brown	Good	100%	Rubber
		Armory				
		Room 22		Miscellaneous		
		West				
0158-102213-PLM-18	October 22, 2013	Cove Base Mastic	Yellow	Good	100%	Adhesive
		Armory				
		Room 22		Miscellaneous		
		West				
0158-102213-PLM-19	October 22, 2013	12 x 12 Floor Tile	Grey	Good	100%	Vinyl Aggregate
		Armory				
		Room 26		Miscellaneous		
		West				
0158-102213-PLM-20	October 22, 2013	Yellow Mastic	Yellow	Good	100%	Adhesive
		Armory				
		Room 26		Miscellaneous		
		West				

Jamie Marshall		November 6, 2013
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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Cell	N/A	Other	N/A	Other	405-521-3789
email	citymanager@fredrick.org	email	dustin.davidson@deq.ok.gov	email	stacy.haines@homes.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION	100%	
0158-102213-PLM-21	October 22, 2013	12 x 12 Floor Tile	Grey	Good		Vinyl Aggregate
		Armory				
		Room 26	Miscellaneous			
		East				
0158-102213-PLM-22	October 22, 2013	Yellow Mastic	Yellow	Good		Adhesive
		Armory				
		Room 26	Miscellaneous			
		East				
0158-102213-PLM-23	October 22, 2013	12 x 12 Floor Tile	Grey	Good		Vinyl Aggregate
		Armory				
		Room 26	Miscellaneous			
		Center				
0158-102213-PLM-24	October 22, 2013	Yellow Mastic	Yellow	Good		Adhesive
		Armory				
		Room 26	Miscellaneous			
		Center				
0158-102213-PLM-25	October 22, 2013	12 x 12 Floor Tile	White	Good		Vinyl Aggregate
		Armory				
		Room 26	Miscellaneous			
		West				

Jamie Marshall		November 6, 2013
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method:
 40 CFR Chapter I Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light
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Lab Accreditation:
 AIHA PAT ID# 102334

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email	citymanager@fredrick.org	email	dustin.davidson@deq.ok.gov	email	stacy.haines@homes.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION	PERCENTAGE	TYPE
0158-102213-PLM-26	October 22, 2013	Yellow Mastic	Yellow	Good	100%	Adhesive
		Armory				
		Room 26		Miscellaneous		
		West				
0158-102213-PLM-27	October 22, 2013	12 x 12 Floor Tile	White	Good	100%	Vinyl Aggregate
		Armory				
		Room 26		Miscellaneous		
		East				
0158-102213-PLM-28	October 22, 2013	Yellow Mastic	Yellow	Good	100%	Adhesive
		Armory				
		Room 26		Miscellaneous		
		East				
0158-102213-PLM-29	October 22, 2013	12 x 12 Floor Tile	White	Good	100%	Vinyl Aggregate
		Armory				
		Room 26		Miscellaneous		
		Center				
0158-102213-PLM-30	October 22, 2013	Yellow Mastic	Yellow	Good	100%	Adhesive
		Armory				
		Room 26		Miscellaneous		
		Center				

Jamie Marshall		November 6, 2013
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method 40 CFR Chapter I, Part 763, Subpart F, Appendix A "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM), US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
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email	citymanager@fredrick.org	email	dustin.davidson@deq.ok.gov	email	stacy.haines@homes.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION	TYPE	NOTE
0158-102213-PLM-31	October 22, 2013	Insulation	Yellow	Good		
		Armory				
		Hot Water Line		Thermal System Insulation		
		Room 4				
0158-102213-PLM-32	October 22, 2013	Insulation	Yellow	Good		
		Armory				
		Hot Water Line		Thermal System Insulation		
		Room 5				
0158-102213-PLM-33	October 22, 2013	Insulation	Yellow	Good		
		Armory				
		Hot Water Line		Thermal System Insulation		
		Room 10				
0158-102213-PLM-34	October 22, 2013	Window Caulk	White	Good		
		Shed North of Armory				
		North		Miscellaneous		
0158-102213-PLM-35	October 22, 2013	Window Caulk	White	Good		
		Shed North of Armory				
		South		Miscellaneous		

Jamie Marshall		November 6, 2013
ANALYST NAME (PRINT)	ANALYST SIGNATURE	DATE ANALYZED

Polarized Light Microscopy Asbestos Analysis Test Method: 40 CFR Chapter I, Part 763, Subpart F, Appendix A, "Interim Method for determination of Asbestos in Bulk Insulation Samples" using Polarized Light Microscopy (PLM). US EPA 600/M4-82-020 1982.	Lab Accreditation: AIHA PAT ID# 102334
--	---

FEE: \$500.00

OKLAHOMA
Department of Labor



Jamie Marshall

has filed in the office of the Commissioner of Labor of the State of Oklahoma
an application for a Limited Asbestos Contractor's license for

AHERA MANAGEMENT PLANNER

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of
the power vested in him by law hereby issues to the
applicant license No. **OK-MP-400477**.

Mark Costello

MARK COSTELLO
Commissioner of Labor

May 19, 2013

Date of Issuance

EXPIRES: May 29, 2014

FFEL: \$25.00

Oklahoma Department of Labor



Rachel Woods

has filed in the office of the Commissioner of Labor of the State of Oklahoma
an application for a Limited Asbestos Contractor's license for

AHERA INSPECTOR

Now, therefore, The Commissioner of Labor of the State of Oklahoma, by virtue of
the power vested in him by law hereby issues to the
applicant license No. **OK400492**.

Mark Cosiello

MARK COSIELLO

Commissioner of Labor

May 31, 2013

Date of Issuance

EXPIRES: May 29, 2014

FREDERICK ARMORY
1801 GLADSTONE AVENUE
FREDERICK, OKLAHOMA 73542

JANUARY 6, 2014

LEAD-BASED PAINT INSPECTION

SERVICES PROVIDED FOR:

*Oklahoma Department of Environmental Quality
Land Protection Division
Care Of: Dustin Davidson, Environmental Programs Specialist
Post Office Box 1677
Oklahoma City, Oklahoma 73102
405.702.5115
Dustin.davidson@deq.ok.gov*

SERVICES PROVIDED BY:

*Marshall Environmental Management, Incorporated
Attention: Jamie Marshall, Asbestos Project Designer
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
405.616.0401
marsheav@swbell.net*

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LEAD-BASED PAINT INSPECTION

FREDERICK ARMORY – 1801 GLADSTONE AVENUE

CERTIFICATION

This is to certify that, Marshall Environmental Management, Incorporated (MEM) was contracted by the State of Oklahoma Construction and Properties Division, on behalf of the Oklahoma Department of Environmental Quality (ODEQ) Land Protection Division (LPD), to conduct a Lead-Based Paint (LBP) Inspection and collect samples of surface dust at the Frederick Armory located at 1801 Gladstone Avenue in Frederick, Oklahoma. On October 22, 2013, Rachel Woods licensed, Oklahoma Department of Environmental Quality (ODEQ) LBP Inspector/Risk Assessor performed this inspection in accordance with the requirements set forth by the Environmental Protection Agency (EPA)¹. Furthermore, the instrumentation utilized during this inspection was calibrated in accordance with the manufacture specifications. Finally, the analytical data resulting from this inspection is believed to reflect the concentrations of lead, in paint, that were present at the time this Inspection was completed.

OWNER INFORMATION

City of Frederick

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR



January 6, 2014

Rachel Woods, B.S., Industrial Hygiene Associate
ODEQ Certification Lead-Based Paint Inspector/Risk Assessor

Report Date
OKRASR13701

CERTIFIED LEAD-BASED PAINT FIRM

Marshall Environmental Management, Incorporated
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
Phone: 405.616.0401
Email: marshenv@swbell.net
ODEQ Certification Lead-Based Paint Firm OKFIRM11160

X-RAY FLUORESCENCE ANALYZER

Analyzer Make: Niton XLP Spectrum Analyzer
Analyzer Model: #XLP 300A
Analyzer Serial Number: 12585
Source Date: March 15, 2011

¹Requirements for Lead-based Paint Activities in Target Housing and Child-occupied Facilities(40 Code of Federal Regulations Part 745)

EXECUTIVE SUMMARY

On October 22, 2013, MEM conducted a LBP Inspection in addition to collecting samples of surface dust at the Frederick Armory located at 1801 Gladstone Avenue in Frederick, Oklahoma as part of the ODEQ, Land Protection Division (LPD) Site Cleanup Assistance Program and Armory Cleanup Program. This inspection and sampling event were accomplished for the purpose of establishing the presence of LBP and lead-laden dust so, if necessary, a strategy may be prepared for abatement activities. According to the EPA, *Lead-Based Paint* is characterized as paint that contains lead in concentrations greater than or equal to 1-milligram per square centimeter ($\geq 1\text{-mg/cm}^2$). Moreover, surface-dust containing a concentration of lead greater than or equal to 40-micrograms per square foot ($40\text{-}\mu\text{g/ft}^2$) represents lead contamination; this Action Level applies to all surfaces within the Armory. As such, the analytical data identified LBP on the door and doorjamb of the shed located south of the Armory. Additionally, surface dust in excess of the EPA Action Level was identified in Room 16. The sampling location, substrate and color of paint as well as the surface area identified as *lead based* or *lead laden*, respectively, are summarized in the Analytical Findings portion of this report. The remainder of this report includes the Sampling Methodology, Analytical Findings, Disclosure Statement, Legal Obligation as well as information regarding LBP. Applicable certifications are provided for your records in the Appendix to this report.

HISTORICAL OVERVIEW OF LEAD-BASED PAINT ACTIVITIES

Historical records were not provided for review nor was there evidence or information that would suggest that a prior LBP Inspection or Risk Assessment occurred at the said property.

SCOPE OF SERVICE

LEAD-BASED PAINT

This LBP Inspection was accomplished so that the location(s) of paint that contain lead in concentrations $\geq 1\text{-mg/cm}^2$, if present, can be identified. As part of this LBP Inspection and in accordance with the EPA, all applicable, painted surfaces excluding non-fixed and factory-painted items were representatively sampled and analyzed for lead content. This LBP Inspection, however, was limited to certain aspects of the building construction. These limitations can restrict and/or prevent the complete inspection of hidden or inaccessible building components. Painted surfaces were analyzed for lead content by utilizing an X-Ray Fluorescence (XRF), direct reading data-logging instrument *Niton XLP Spectrum Analyzer #XLP 300A*. Additionally, the street facing side of the structure(s) was identified as side *A*. Going in a clockwise direction, the remaining sides were categorized as side *B*, *C* and *D* respectively. The client and/or owner are expected to provide access to the structure(s) in addition to notifying and providing, if necessary, an explanation of the LBP Inspection to the occupants. At the time this inspection was performed, no deviations from the scope of service occurred.

LEAD-LADEN DUST

Surface-dust collected from randomly selected floor surfaces throughout the Armory were sampled and analyzed for lead content. The surface dust is collected by placing a template of a known dimension firmly against the surface to be sampled; next, the area within the template is wiped in a particular pattern utilizing a specified wipe; each wipe is then placed in an approved container for transportation purposes. The laboratory data coincides with the sampling locations illustrated on the floor plan diagram attached with the Appendix to this Report.

DISCLAIMER & STANDARD OF CARE

The Armory located at 1801 Gladstone Avenue in Frederick, Oklahoma consists of a one-story structure with a concrete slab, plaster exterior and flat roof that constructed circa 1990. In addition to this, a metal shed is located on the south side of the Armory. Although paint on various surfaces may not contain lead in concentrations that exceed the federal standard, a hazard could be presented if painted surfaces are disturbed. Occupational Safety and Health Administration (OSHA) regulations covering worker safety and health may apply when painted surfaces, lead-based paint or not, are disturbed. The EPA pre-renovation rule requires that the contractor provide a copy of the booklet *Protect Your Family from Lead in Your Home* or *Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools* for any renovation that may disturb more than 2-square feet (2-ft²) of painted surface in a facility built before 1978. Furthermore, if renovation of any kind takes place the contractor should provide a copy of *Renovate Right: Important Lead Hazard Information for Families, Child Care Providers and Schools*. This Report was generated utilizing the EPA protocol referenced in the Certification portion of this Report. The analytical results associated with this inspection are only applicable on the date(s) indicated and future activities may alter the results.

ANALYTICAL FINDINGS

The following tables summarize the LBP and lead-laden surfaces that were identified. The corresponding analytical data, including calibration checks and start/stop times, and an area diagram, illustrating the structures and room equivalents, are included in the Appendix to this Report.

TABLE I: LEAD-BASED PAINTED SURFACES

SAMPLING LOCATION	SIDE	SUBSTRATE	COLOR
EXTERIOR – DOOR JAM	SHED A	METAL	RED
EXTERIOR - DOOR	SHED 1A	METAL	BROWN
EXTERIOR – DOOR JAM	SHED 1A	METAL	RED

TABLE II: SURFACE-WIPE ANALYSIS

LAB ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
19	ROOM 16 (COMPOSITE SAMPLE)	818-µg/ft ²	40-µg/ft ²

DISCLOSURE STATEMENT AND OWNERS LEGAL OBLIGATION

Under Federal law (24 CFR Part 35 and 40 CFR Part 745), this LBP Inspection Report must be disclosed and made available to prospective tenants before becoming obligated under a lease or sales contract where LBP is present. If an Inspection finds that LBP is not present in certain multifamily dwelling units, which are to be leased, the dwelling unit(s) is exempt from disclosure requirements. However, under federal law **even if no LBP is identified** the owner is still required to fulfill certain legal responsibilities when the property is sold not leased. Property owners and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that information is provided in order to protect children from LBP hazards.

Information regarding the legal obligation to disclose results associated with LBP inspections and/or risk assessments to tenants and/or purchasers can be obtained from the National Lead Information Center Clearinghouse (1-800-424-LEAD). This information is specified in 24 CFR Part 35 and 40 CFR Part 745 (published in the *Federal Register*, Volume 61, Number 45, April 6, 1996, beginning on p. 9064).

LEAD-BASED PAINT INFORMATION

You may contact the National Lead Information Center Clearinghouse (1-800-424-LEAD) to obtain United States Department of Housing and Urban Development (HUD) and EPA brochures, question and answer booklets, regulations, mentioned in this Report, and other information regarding LBP disclosure.

APPENDIX

XRF ANALYTICAL DATA

SURFACE-WIPE

CHAIN OF CUSTODY & ANALYTICAL DATA

PHOTOGRAPHS

AREA DIAGRAMS

CERTIFICATION/LICENSURE

Index	Time	Type	Duration	Units	Component/Substrate	Side	Color	Results	Pbt	Pbt	Pbk
1	2013-10-22 12:18	SHUTTER_CAL	212.73	ops					2.12 ± 0.00	0.38 ± 0.00	0.00 ± 0.00
2	2013-10-22 12:23	PAINT	8.00	mg/cm ²	WALL	PLASTER	BEIGE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.00
3	2013-10-22 12:22	PAINT	4.02	mg/cm ²	WALL	PLASTER	RED	NHil	9.90 ± 0.13	0.90 ± 0.10	1.10 ± 0.60
4	2013-10-22 12:23	PAINT	5.86	mg/cm ²	SLAB	CONCRETE	WHITE	Positive	1.00 ± 0.10	1.00 ± 0.10	1.60 ± 0.90
5	2013-10-22 12:24	PAINT	11.60	mg/cm ²	WALL	PLASTER	WHITE	Negative	1.70 ± 0.70	1.00 ± 0.10	1.70 ± 0.70
6	2013-10-22 12:24	PAINT	3.25	mg/cm ²	WALL	PLASTER	WHITE	Positive	0.90 ± 0.10	0.90 ± 0.10	1.20 ± 0.50
7	2013-10-22 12:27	PAINT	1.23	mg/cm ²	WALL	PLASTER	BEIGE	Negative	1.20 ± 0.20	1.20 ± 0.20	<LOD:1.50
8	2013-10-22 12:17	PAINT	1.08	mg/cm ²	WALL	PLASTER	RED	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.00
9	2013-10-22 12:27	PAINT	0.62	mg/cm ²	SLAB	CONCRETE	WHITE	NHil	<LOD:0.03	<LOD:0.03	<LOD:1.99
10	2013-10-22 12:18	PAINT	3.24	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.05	<LOD:0.05	<LOD:6.56
11	2013-10-22 12:20	PAINT	1.23	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.07	<LOD:0.07	<LOD:1.20
12	2013-10-22 12:20	PAINT	1.24	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.05
13	2013-10-22 12:30	PAINT	2.63	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.05	<LOD:0.03	<LOD:1.30
14	2013-10-22 12:30	PAINT	3.35	mg/cm ²	SLAB	CONCRETE	WHITE	NHil	<LOD:0.03	<LOD:0.03	<LOD:2.10
15	2013-10-22 12:31	PAINT	3.25	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
16	2013-10-22 12:31	PAINT	1.32	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
17	2013-10-22 12:32	PAINT	1.08	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.90
18	2013-10-22 12:32	PAINT	3.11	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.85
19	2013-10-22 12:33	PAINT	3.26	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.35
20	2013-10-22 12:33	PAINT	1.85	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.35
21	2013-10-22 12:34	PAINT	1.24	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.77
22	2013-10-22 12:34	PAINT	3.40	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.24
23	2013-10-22 12:35	PAINT	1.68	mg/cm ²	PIPE	METAL	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
24	2013-10-22 12:35	PAINT	1.05	mg/cm ²	COLUMN	METAL	RED	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.70
25	2013-10-22 12:38	PAINT	1.08	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.90
26	2013-10-22 12:39	PAINT	5.10	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.90
27	2013-10-22 12:39	PAINT	1.86	mg/cm ²	COLUMN	METAL	RED	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.35
28	2013-10-22 12:40	PAINT	4.11	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.65
29	2013-10-22 12:41	PAINT	2.47	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.05
30	2013-10-22 12:41	PAINT	3.24	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.41
31	2013-10-22 12:42	PAINT	2.95	mg/cm ²	SLAB	CONCRETE	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.06
32	2013-10-22 12:42	PAINT	2.16	mg/cm ²	WALL	PLASTER	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.95
33	2013-10-22 12:43	PAINT	1.08	mg/cm ²	WALL	DRYWALL	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
34	2013-10-22 12:43	PAINT	1.39	mg/cm ²	WALL	DRYWALL	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.06
35	2013-10-22 12:44	PAINT	1.08	mg/cm ²	DOOR	METAL	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.02

Frederick Armory
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Index	Time	Type	Duration	Units	Component/Substrate	Side	Color	Results	PbC	PbI	PbK
36	2013-10-22 12:44	PAINT	0.15	mg/cm ²	DOOR JAM METAL	1C	WHITE	Nil	<LOD:0.03	<LOD:0.03	<LOD:14.38
37	2013-10-22 12:44	PAINT	1.08	mg/cm ²	DOOR JAM METAL	1C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.31
38	2013-10-22 12:45	PAINT	1.08	mg/cm ²	WALL DRYWALL	1D	WHITE	Negative	<LOD:0.07	<LOD:0.07	<LOD:2.15
39	2013-10-22 12:45	PAINT	1.39	mg/cm ²	WALL DRYWALL	2A	WHITE	Nil	<LOD:0.03	<LOD:0.03	<LOD:2.13
40	2013-10-22 12:46	PAINT	3.47	mg/cm ²	WALL DRYWALL	2A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.51
41	2013-10-22 12:46	PAINT	1.24	mg/cm ²	WALL DRYWALL	2B	WHITE	Negative	<LOD:0.05	<LOD:0.05	<LOD:2.10
42	2013-10-22 12:46	PAINT	1.68	mg/cm ²	DOOR METAL	2B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.17
43	2013-10-22 12:47	PAINT	1.03	mg/cm ²	DOOR JAM METAL	2B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.39
44	2013-10-22 12:47	PAINT	1.09	mg/cm ²	DOOR JAM METAL	2C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.34
45	2013-10-22 12:48	PAINT	1.08	mg/cm ²	DOOR METAL	2C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.41
46	2013-10-22 12:48	PAINT	1.54	mg/cm ²	WALL DRYWALL	2C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.97
47	2013-10-22 12:48	PAINT	0.77	mg/cm ²	WALL DRYWALL	2D	WHITE	Nil	<LOD:0.04	<LOD:0.04	<LOD:3.49
48	2013-10-22 12:48	PAINT	1.08	mg/cm ²	WALL DRYWALL	2D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.07
49	2013-10-22 12:49	PAINT	2.47	mg/cm ²	WALL DRYWALL	3A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.64
50	2013-10-22 12:49	PAINT	1.08	mg/cm ²	WALL DRYWALL	3E	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.19
51	2013-10-22 12:50	PAINT	2.91	mg/cm ²	WALL DRYWALL	3C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.71
52	2013-10-22 12:50	PAINT	1.46	mg/cm ²	WALL DRYWALL	3D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.98
53	2013-10-22 12:50	PAINT	1.08	mg/cm ²	DOOR METAL	3D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.56
54	2013-10-22 12:50	PAINT	1.08	mg/cm ²	DOOR TRIM METAL	3D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.64
55	2013-10-22 12:52	PAINT	1.59	mg/cm ²	WALL CONCRETE	4A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.58
56	2013-10-22 12:52	PAINT	1.54	mg/cm ²	CEILING DRYWALL	4A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.93
57	2013-10-22 12:53	PAINT	2.47	mg/cm ²	WALL CONCRETE	4B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.96
58	2013-10-22 12:54	PAINT	2.23	mg/cm ²	WALL CONCRETE	4C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.16
59	2013-10-22 12:54	PAINT	1.08	mg/cm ²	DOOR METAL	4C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.27
60	2013-10-22 12:55	PAINT	1.86	mg/cm ²	DOOR TRIM METAL	4C	WHITE	Negative	<LOD:0.10	<LOD:0.10	<LOD:2.70
61	2013-10-22 12:55	PAINT	3.09	mg/cm ²	WALL CONCRETE	4D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
62	2013-10-22 12:56	PAINT	3.23	mg/cm ²	WALL CONCRETE	5A	WHITE	Negative	<LOD:0.07	<LOD:0.07	<LOD:1.20
63	2013-10-22 12:56	PAINT	1.09	mg/cm ²	DOOR METAL	5A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.38
64	2013-10-22 12:56	PAINT	1.08	mg/cm ²	DOOR TRIM METAL	5A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.83
65	2013-10-22 12:57	PAINT	3.32	mg/cm ²	WALL CONCRETE	5B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.00
66	2013-10-22 12:57	PAINT	1.08	mg/cm ²	DOOR METAL	5E	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.39
67	2013-10-22 12:58	PAINT	1.08	mg/cm ²	DOOR JAM METAL	5B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.75
68	2013-10-22 12:58	PAINT	3.24	mg/cm ²	WALL CONCRETE	5C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
69	2013-10-22 12:59	PAINT	2.92	mg/cm ²	WALL CONCRETE	5D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
70	2013-10-22 12:59	PAINT	1.08	mg/cm ²	CEILING DRYWALL	5D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.02

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Index	Time	Type	Duration	Units	Component/Substrate	Side	Color	Results	Job#	PHI	PHK
71	2013-10-22 13:00	PAINT	3:24	mg/cm ²	WALL	CONCRETE	9A	WHITE	Negative	<LOD:0.03	<LOD:0.97
72	2013-10-22 13:01	PAINT	1:08	mg/cm ²	WALL	DRYWALL	9B	WHITE	Negative	<LOD:0.03	<LOD:2.10
73	2013-10-22 13:01	PAINT	1:08	mg/cm ²	WALL	DRYWALL	6C	WHITE	Negative	<LOD:0.03	<LOD:2.12
74	2013-10-22 13:02	PAINT	1:08	mg/cm ²	WALL	DRYWALL	5D	WHITE	Negative	<LOD:0.03	<LOD:2.05
75	2013-10-22 13:02	PAINT	1:08	mg/cm ²	DOOR	METAL	6D	WHITE	Negative	<LOD:0.03	<LOD:3.29
76	2013-10-22 13:02	PAINT	1:08	mg/cm ²	DOORJAM	METAL	6E	WHITE	Negative	<LOD:0.03	<LOD:3.51
77	2013-10-22 13:03	PAINT	2:16	mg/cm ²	CEILING	DRYWALL	7	WHITE	Negative	<LOD:0.03	<LOD:1.63
78	2013-10-22 13:04	PAINT	3:08	mg/cm ²	CEILING	DRYWALL	7A	WHITE	Negative	<LOD:0.05	<LOD:0.92
79	2013-10-22 13:04	PAINT	1:39	mg/cm ²	CEILING	DRYWALL	7B	WHITE	Negative	<LOD:0.03	<LOD:2.00
80	2013-10-22 13:04	PAINT	1:26	mg/cm ²	CEILING	DRYWALL	7C	WHITE	Negative	<LOD:0.05	<LOD:1.79
81	2013-10-22 13:04	PAINT	1:23	mg/cm ²	CEILING	DRYWALL	7D	WHITE	Negative	<LOD:0.03	<LOD:2.08
82	2013-10-22 13:05	PAINT	1:06	mg/cm ²	DOOR	METAL	7D	WHITE	Negative	<LOD:0.03	<LOD:3.04
83	2013-10-22 13:05	PAINT	1:08	mg/cm ²	DOORJAM	METAL	7D	WHITE	Negative	<LOD:0.03	<LOD:3.22
84	2013-10-22 13:06	PAINT	2:15	mg/cm ²	CEILING	DRYWALL	8	WHITE	Negative	<LOD:0.03	<LOD:1.65
85	2013-10-22 13:06	PAINT	1:24	mg/cm ²	CEILING	DRYWALL	8A	WHITE	Negative	<LOD:0.03	<LOD:2.08
86	2013-10-22 13:07	PAINT	1:39	mg/cm ²	WALL	DRYWALL	8B	WHITE	Negative	<LOD:0.08	<LOD:2.03
87	2013-10-22 13:07	PAINT	1:08	mg/cm ²	WALL	DRYWALL	8C	WHITE	Negative	<LOD:0.03	<LOD:2.18
88	2013-10-22 13:05	PAINT	5:09	mg/cm ²	WALL	CONCRETE	8D	WHITE	Negative	<LOD:0.03	<LOD:1.80
89	2013-10-23 13:10	PAINT	1:09	mg/cm ²	DOOR	METAL	8A	WHITE	Negative	<LOD:0.03	<LOD:3.16
90	2013-10-23 13:11	PAINT	1:08	mg/cm ²	DOORJAM	METAL	8A	WHITE	Negative	<LOD:0.03	<LOD:3.20
91	2013-10-23 13:12	PAINT	1:08	mg/cm ²	WALL	DRYWALL	9A	WHITE	Negative	<LOD:0.03	<LOD:2.14
92	2013-10-22 13:17	PAINT	3:40	mg/cm ²	WALL	DRYWALL	9B	WHITE	Negative	<LOD:0.03	<LOD:1.04
93	2013-10-22 13:14	PAINT	1:09	mg/cm ²	WINDOW	METAL	9D	WHITE	Negative	<LOD:0.03	<LOD:3.38
94	2013-10-22 13:15	PAINT	1:08	mg/cm ²	DOOR	METAL	9E	WHITE	Negative	<LOD:0.03	<LOD:3.21
95	2013-10-22 13:15	PAINT	1:08	mg/cm ²	DOORJAM	METAL	9E	WHITE	Negative	<LOD:0.03	<LOD:3.41
96	2013-10-22 13:16	PAINT	1:20	mg/cm ²	WALL	CONCRETE	9C	WHITE	Negative	<LOD:0.03	<LOD:2.43
97	2013-10-22 13:16	PAINT	1:38	mg/cm ²	WALL	DRYWALL	9D	WHITE	Negative	<LOD:0.03	<LOD:2.06
98	2013-10-22 13:18	PAINT	1:69	mg/cm ²	WALL	DRYWALL	10A	WHITE	Negative	<LOD:0.03	<LOD:1.80
99	2013-10-22 13:18	PAINT	1:58	mg/cm ²	WALL	DRYWALL	10B	WHITE	Negative	<LOD:0.03	<LOD:1.89
100	2013-10-22 13:19	PAINT	1:08	mg/cm ²	WALL	DRYWALL	10C	WHITE	Negative	<LOD:0.03	<LOD:2.27
101	2013-10-22 13:19	PAINT	1:08	mg/cm ²	DOOR	METAL	10C	WHITE	Negative	<LOD:0.03	<LOD:3.11
102	2013-10-22 13:19	PAINT	1:08	mg/cm ²	DOORJAM	METAL	10C	WHITE	Negative	<LOD:0.03	<LOD:3.72
103	2013-10-22 13:20	PAINT	1:54	mg/cm ²	WALL	DRYWALL	10D	WHITE	Negative	<LOD:0.03	<LOD:1.80
104	2013-10-22 13:20	PAINT	2:62	mg/cm ²	WALL	DRYWALL	11A	WHITE	Negative	<LOD:0.03	<LOD:1.52
105	2013-10-22 13:21	PAINT	1:23	mg/cm ²	WALL	DRYWALL	11B	WHITE	Negative	<LOD:0.03	<LOD:2.16

Index	Time	Type	Duration	Units	Component	Substrate	Side	Color	Results	PbC	Pb	Pbk
106	2013-10-22 13:24	PAINT	2:42	mg/cm ²	WALL	CONCRETE	11C	WHITE	Negative	<LOD:0.03	<LOD:0.02	<LOD:1.95
107	2013-10-22 13:21	PAINT	1:08	mg/cm ²	DOOR	METAL	11C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.80
108	2013-10-22 13:22	PAINT	1:08	mg/cm ²	DOOR JAM	METAL	11C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.63
109	2013-10-22 13:22	PAINT	3:08	mg/cm ²	WALL	DRYWALL	11D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.02
110	2013-10-22 13:23	PAINT	3:24	mg/cm ²	WALL	CONCRETE	12A	BLUE	Negative	<LOD:0.03	<LOD:0.05	<LOD:1.20
111	2013-10-22 13:24	PAINT	0:52	mg/cm ²	DOOR	METAL	12A	WHITE	Null	<LOD:0.05	<LOD:0.05	<LOD:4.80
112	2013-10-22 13:24	PAINT	1:09	mg/cm ²	DOOR	METAL	12A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.09
113	2013-10-22 13:24	PAINT	1:08	mg/cm ²	DOOR JAM	METAL	12A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.57
114	2013-10-22 13:25	PAINT	1:07	mg/cm ²	DOOR JAM	METAL	12B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.44
115	2013-10-22 13:25	PAINT	1:09	mg/cm ²	COLUMN	METAL	12B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.20
116	2013-10-22 13:26	PAINT	2:23	mg/cm ²	WALL	CONCRETE	12B	BLUE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
117	2013-10-22 13:27	PAINT	3:05	mg/cm ²	WALL	CONCRETE	12C	BLUE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
118	2013-10-22 13:27	PAINT	1:08	mg/cm ²	DOOR	METAL	12C	WHITE	Negative	<LOD:0.08	<LOD:0.08	<LOD:3.32
119	2013-10-22 13:28	PAINT	1:08	mg/cm ²	DOOR JAM	METAL	12C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.76
120	2013-10-22 13:28	PAINT	1:07	mg/cm ²	BEAM	METAL	12C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.57
121	2013-10-22 13:28	PAINT	1:08	mg/cm ²	BEAM	METAL	12D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.62
122	2013-10-22 13:29	PAINT	0:16	mg/cm ²	DOOR	METAL	12D	WHITE	Null	<LOD:0.03	<LOD:0.03	<LOD:11.22
123	2013-10-22 13:29	PAINT	1:08	mg/cm ²	DOOR	METAL	12D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.23
124	2013-10-22 13:29	PAINT	1:08	mg/cm ²	DOOR JAM	METAL	12D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.73
125	2013-10-22 13:30	PAINT	2:78	mg/cm ²	TRIM	CONCRETE	12D	BLUE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
126	2013-10-22 13:30	PAINT	0:16	mg/cm ²	WALL	METAL	SHED A	BROWN	Null	<LOD:0.20	<LOD:0.20	<LOD:10.28
127	2013-10-22 13:30	PAINT	1:08	mg/cm ²	WALL	METAL	SHED A	BROWN	Negative	<LOD:0.40	<LOD:0.40	<LOD:2.78
128	2013-10-22 13:31	PAINT	1:08	mg/cm ²	DOOR	METAL	SHED A	RED	Negative	<LOD:0.38	<LOD:0.38	<LOD:3.75
129	2013-10-22 13:32	PAINT	2:01	mg/cm ²	DOOR JAM	METAL	SHED A	RED	Null	0.90 ± 0.30	0.90 ± 0.30	<LOD:2.55
130	2013-10-22 13:32	PAINT	2:78	mg/cm ²	DOOR JAM	METAL	SHED A	RED	Positive	1.40 ± 0.40	1.40 ± 0.40	<LOD:2.40
131	2013-10-22 13:33	PAINT	1:08	mg/cm ²	WALL	METAL	SHED B	BROWN	Negative	<LOD:0.10	<LOD:0.10	<LOD:2.90
132	2013-10-22 13:33	PAINT	1:08	mg/cm ²	WALL	METAL	SHED C	BROWN	Negative	<LOD:0.31	<LOD:0.41	<LOD:2.79
133	2013-10-22 13:34	PAINT	1:08	mg/cm ²	WALL	METAL	SHED D	BROWN	Negative	<LOD:0.60	<LOD:0.60	<LOD:2.98
134	2013-10-22 13:35	PAINT	1:09	mg/cm ²	WALL	METAL	SHED 1A	BROWN	Negative	<LOD:0.21	<LOD:0.21	<LOD:2.90
135	2013-10-22 13:35	PAINT	0:62	mg/cm ²	DOOR	METAL	SHED 1A	BROWN	Positive	3.10 ± 1.90	3.10 ± 1.90	<LOD:8.70
136	2013-10-22 13:35	PAINT	1:09	mg/cm ²	DOOR JAM	METAL	SHED 1A	RED	Positive	1.70 ± 0.70	1.70 ± 0.70	<LOD:4.05
137	2013-10-22 13:35	PAINT	1:05	mg/cm ²	WALL	METAL	SHED 1B	BROWN	Negative	<LOD:0.77	<LOD:0.77	<LOD:2.47
138	2013-10-22 13:36	PAINT	1:08	mg/cm ²	WALL	METAL	SHED 1C	BROWN	Negative	<LOD:0.07	<LOD:0.07	<LOD:2.94
139	2013-10-22 13:36	PAINT	1:08	mg/cm ²	WALL	METAL	SHED 1D	BROWN	Negative	<LOD:0.23	<LOD:0.23	<LOD:3.30
140	2013-10-22 13:38	PAINT	3:24	mg/cm ²	WALL	CONCRETE	13A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20

Index	Time	Type	Detection	Units	Component/Substrate	Side	Color	Results	PbC	PbB	PbK
141	2013-10-22 13:39	PAINT	2.93	mg/cm ²	WALL	CONCRETE	13B	Negative	<LOD:0.11	<LOD:0.11	<LOD:1.80
142	2013-10-22 13:39	PAINT	1.08	mg/cm ²	DOOR	METAL	13E	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.45
143	2013-10-22 13:39	PAINT	1.08	mg/cm ²	DOOR/JAM	METAL	13E	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.30
144	2013-10-22 13:40	PAINT	1.08	mg/cm ²	WINDOW	METAL	13C	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.25
145	2013-10-22 13:40	PAINT	1.08	mg/cm ²	DOOR	METAL	13C	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.63
146	2013-10-22 13:41	PAINT	1.48	mg/cm ²	DOOR/JAM	METAL	13C	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.66
147	2013-10-22 13:41	PAINT	2.94	mg/cm ²	WALL	CONCRETE	13C	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.95
148	2013-10-22 13:42	PAINT	3.09	mg/cm ²	WALL	CONCRETE	13D	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
149	2013-10-22 13:42	PAINT	1.08	mg/cm ²	BEAM	METAL	13D	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.90
150	2013-10-22 13:43	PAINT	1.62	mg/cm ²	WINDOW	METAL	14A	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.12
151	2013-10-22 13:43	PAINT	2.31	mg/cm ²	WALL	DRYWALL	14A	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.55
152	2013-10-22 13:43	PAINT	3.24	mg/cm ²	WALL	CONCRETE	14B	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.05
153	2013-10-22 13:44	PAINT	1.08	mg/cm ²	WALL	DRYWALL	14C	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.15
154	2013-10-22 13:44	PAINT	3.32	mg/cm ²	WALL	DRYWALL	14D	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.59
155	2013-10-22 13:44	PAINT	1.09	mg/cm ²	WINDOW	METAL	14D	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.20
156	2013-10-22 13:45	PAINT	1.09	mg/cm ²	DOOR	METAL	14D	Negative	<LOD:0.14	<LOD:0.14	<LOD:3.18
157	2013-10-22 13:45	PAINT	1.08	mg/cm ²	DOOR/JAM	METAL	14D	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.23
158	2013-10-22 13:45	PAINT	3.23	mg/cm ²	CEILING	CONCRETE	15	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
159	2013-10-22 13:46	PAINT	2.78	mg/cm ²	CEILING	CONCRETE	15A	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.10
160	2013-10-22 13:47	PAINT	1.08	mg/cm ²	DOOR	METAL	15A	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.60
161	2013-10-22 13:47	PAINT	1.08	mg/cm ²	DOOR/JAM	METAL	15A	Negative	<LOD:0.04	<LOD:0.04	<LOD:3.79
162	2013-10-22 13:47	PAINT	5.10	mg/cm ²	WALL	CONCRETE	15B	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.05
163	2013-10-22 13:48	PAINT	5.24	mg/cm ²	WALL	CONCRETE	15C	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.35
164	2013-10-22 13:48	PAINT	3.23	mg/cm ²	WALL	CONCRETE	15D	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.35
165	2013-10-22 13:54	PAINT	2.93	mg/cm ²	WALL	CONCRETE	16A	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
166	2013-10-22 13:54	PAINT	3.70	mg/cm ²	WALL	CONCRETE	16B	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.05
167	2013-10-22 13:54	PAINT	1.09	mg/cm ²	WALL	METAL	16B	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.15
168	2013-10-22 13:55	PAINT	1.08	mg/cm ²	DOOR/JAM	METAL	16B	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.63
169	2013-10-22 13:57	PAINT	1.86	mg/cm ²	WALL	CONCRETE	16C	Negative	<LOD:0.06	<LOD:0.06	<LOD:2.32
170	2013-10-22 14:02	PAINT	3.09	mg/cm ²	WALL	CONCRETE	17A	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.05
171	2013-10-22 14:02	PAINT	1.87	mg/cm ²	DOOR	METAL	17A	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.60
172	2013-10-22 14:03	PAINT	1.08	mg/cm ²	DOOR/JAM	METAL	17A	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.22
173	2013-10-22 14:03	PAINT	1.09	mg/cm ²	DOOR/JAM	METAL	17B	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.62
174	2013-10-22 14:03	PAINT	0.31	mg/cm ²	WALL	CONCRETE	17B	Null	<LOD:0.03	<LOD:0.03	<LOD:8.55
175	2013-10-22 14:03	PAINT	3.24	mg/cm ²	WALL	CONCRETE	17B	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20

Index	Time	Type	Duration	Units	Component/Substrate	Side	Color	Results	PbC	PbI	PbK
176	2013-10-22 14:04	PAINT	1:29	mg/cm ²	WINDOW WOOD	17B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.86
177	2013-10-22 14:04	PAINT	2:16	mg/cm ²	WALL CONCRETE	17C	WHITE	Negative	<LOD:0.05	<LOD:0.03	<LOD:2.06
178	2013-10-22 14:04	PAINT	2:32	mg/cm ²	WALL CONCRETE	17D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.09
179	2013-10-22 14:05	PAINT	1:08	mg/cm ²	DOOR METAL	17D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.59
180	2013-10-22 14:05	PAINT	1:09	mg/cm ²	DOORJAM METAL	17D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.58
181	2013-10-22 14:06	PAINT	2:62	mg/cm ²	DOORJAM CONCRETE	18A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.95
182	2013-10-22 14:06	PAINT	3:08	mg/cm ²	WALL CONCRETE	18B	WHITE	Negative	<LOD:0.07	<LOD:1.80	<LOD:1.80
183	2013-10-22 14:07	PAINT	1:08	mg/cm ²	WINDOW WOOD	18B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.10
184	2013-10-22 14:07	PAINT	1:08	mg/cm ²	CEILING DRYWALL	18B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.10
185	2013-10-22 14:07	PAINT	1:08	mg/cm ²	DOOR METAL	18B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.67
186	2013-10-22 14:08	PAINT	1:06	mg/cm ²	DOORJAM METAL	18B	WHITE	Negative	<LOD:0.11	<LOD:0.11	<LOD:2.72
187	2013-10-22 14:08	PAINT	1:03	mg/cm ²	DOORJAM METAL	18C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.57
188	2013-10-22 14:08	PAINT	1:70	mg/cm ²	DOOR METAL	18C	WHITE	Negative	<LOD:0.04	<LOD:0.04	<LOD:2.53
189	2013-10-22 14:09	PAINT	3:23	mg/cm ²	WALL CONCRETE	18C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
190	2013-10-22 14:09	PAINT	2:09	mg/cm ²	WALL CONCRETE	18C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
191	2013-10-22 14:10	PAINT	1:09	mg/cm ²	DOOR METAL	18D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.05
192	2013-10-22 14:10	PAINT	1:08	mg/cm ²	DOORJAM METAL	18D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.46
193	2013-10-22 14:12	PAINT	1:24	mg/cm ²	CEILING DRYWALL	19D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.93
194	2013-10-22 14:15	PAINT	5:55	mg/cm ²	WALL DRYWALL	19A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:0.90
195	2013-10-22 14:15	PAINT	2:77	mg/cm ²	WALL DRYWALL	19B	WHITE	Negative	<LOD:1.37	<LOD:0.11	<LOD:1.37
196	2013-10-22 14:13	PAINT	1:70	mg/cm ²	WALL DRYWALL	19C	WHITE	Negative	<LOD:1.03	<LOD:0.03	<LOD:1.80
197	2013-10-22 14:14	PAINT	1:24	mg/cm ²	WALL DRYWALL	19D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.00
198	2013-10-22 14:14	PAINT	1:06	mg/cm ²	DOOR METAL	19C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.57
199	2013-10-22 14:14	PAINT	1:09	mg/cm ²	DOORJAM METAL	19C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.47
200	2013-10-22 14:15	PAINT	1:55	mg/cm ²	WALL DRYWALL	20A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
201	2013-10-22 14:16	PAINT	1:55	mg/cm ²	WALL DRYWALL	20B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.65
202	2013-10-22 14:15	PAINT	1:08	mg/cm ²	WALL DRYWALL	20C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.10
203	2013-10-22 14:16	PAINT	1:09	mg/cm ²	WALL DRYWALL	20D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
204	2013-10-22 14:17	PAINT	1:03	mg/cm ²	DOOR METAL	20C	WHITE	Negative	<LOE:0.03	<LOD:0.03	<LOD:3.37
205	2013-10-22 14:17	PAINT	1:08	mg/cm ²	DOORJAM METAL	20D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.37
206	2013-10-22 14:18	PAINT	2:09	mg/cm ²	DOORJAM DRYWALL	21A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:0.95
207	2013-10-22 14:18	PAINT	2:31	mg/cm ²	WALL DRYWALL	21B	WHITE	Negative	<LOD:1.63	<LOD:0.04	<LOD:1.63
208	2013-10-22 14:18	PAINT	1:06	mg/cm ²	WALL DRYWALL	21C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.09
209	2013-10-22 14:19	PAINT	1:24	mg/cm ²	DOOR METAL	21C	WHITE	Negative	<LOD:0.19	<LOD:0.19	<LOD:3.00
210	2013-10-22 14:19	PAINT	1:08	mg/cm ²	DOORJAM METAL	21C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.49

Index	Time	Type	Duration	Units	Component/Substrate	Side	Color	Results	Pb	Pb1	Pb2
211	2013-10-22 14:19	PAINT	1.70	mg/cm ²	WALL DRYWALL	21D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.80
212	2013-10-22 14:20	PAINT	1.96	mg/cm ²	WALL DRYWALL	22A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.21
213	2013-10-22 14:20	PAINT	1.23	mg/cm ²	WALL DRYWALL	22B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.13
214	2013-10-22 14:26	PAINT	1.68	mg/cm ²	DOOR METAL	22B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.12
215	2013-10-22 14:21	PAINT	1.09	mg/cm ²	DOOR/JAM METAL	22B	WHITE	Negative	<LOD:0.03	<LOE:0.03	<LOD:3.46
216	2013-10-22 14:33	SHUTTER_CAL	208.73	ops					2.62 ± 0.00	0.30 ± 0.00	0.00 ± 0.00
217	2013-10-22 14:34	PAINT	1.08	mg/cm ²	CEILING DRYWALL	23A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.07
218	2013-10-22 14:34	PAINT	1.08	mg/cm ²	WALL DRYWALL	23A	WHITE	Negative	<LOE:0.03	<LOD:0.03	<LOD:2.20
219	2013-10-22 14:35	PAINT	1.23	mg/cm ²	WALL DRYWALL	23B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.15
220	2013-10-22 14:35	PAINT	0.15	mg/cm ²	DOOR METAL	23B	WHITE	Not	<LOD:0.03	<LOD:0.03	<LOD:13.90
221	2013-10-22 14:35	PAINT	1.86	mg/cm ²	DOOR METAL	23E	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.44
222	2013-10-22 14:35	PAINT	1.29	mg/cm ²	DOOR/JAM METAL	23B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.34
223	2013-10-22 14:36	PAINT	1.08	mg/cm ²	WALL DRYWALL	23C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.21
224	2013-10-22 14:36	PAINT	3.08	mg/cm ²	WALL DRYWALL	23D	WHITE	Negative	<LOE:0.03	<LOD:0.03	<LOD:1.02
225	2013-10-22 14:37	PAINT	1.08	mg/cm ²	CEILING DRYWALL	24	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.12
226	2013-10-22 14:37	PAINT	1.08	mg/cm ²	WALL DRYWALL	24A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.17
227	2013-10-22 14:37	PAINT	1.09	mg/cm ²	DOOR METAL	24A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:5.60
228	2013-10-22 14:37	PAINT	1.08	mg/cm ²	DOOR/JAM METAL	24A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.34
229	2013-10-22 14:38	PAINT	5.62	mg/cm ²	WALL DRYWALL	24B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.95
230	2013-10-22 14:38	PAINT	3.08	mg/cm ²	WALL DRYWALL	24C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:0.89
231	2013-10-22 14:39	PAINT	1.69	mg/cm ²	WALL DRYWALL	24D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.85
232	2013-10-22 14:39	PAINT	1.23	mg/cm ²	CEILING DRYWALL	25	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.00
233	2013-10-22 14:40	PAINT	1.24	mg/cm ²	WALL DRYWALL	25A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.00
234	2013-10-22 14:40	PAINT	3.09	mg/cm ²	WALL DRYWALL	25B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
235	2013-10-22 14:41	PAINT	1.08	mg/cm ²	DOOR METAL	25B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.60
236	2013-10-22 14:41	PAINT	1.08	mg/cm ²	DOOR/JAM METAL	25B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.14
237	2013-10-22 14:41	PAINT	3.08	mg/cm ²	WALL DRYWALL	25C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:0.96
238	2013-10-22 14:42	PAINT	3.09	mg/cm ²	WALL DRYWALL	25D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:0.97
239	2013-10-22 14:42	PAINT	1.24	mg/cm ²	WALL DRYWALL	26A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.05
240	2013-10-22 14:43	PAINT	1.08	mg/cm ²	DOOR METAL	26A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.60
241	2013-10-22 14:43	PAINT	1.08	mg/cm ²	DOOR/JAM METAL	26A	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.22
242	2013-10-22 14:44	PAINT	3.33	mg/cm ²	WALL DRYWALL	26B	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.22
243	2013-10-22 14:44	PAINT	3.09	mg/cm ²	WALL DRYWALL	26C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:1.20
244	2013-10-22 14:44	PAINT	1.09	mg/cm ²	DOOR METAL	26C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOE:3.00
245	2013-10-22 14:45	PAINT	1.03	mg/cm ²	DOOR/JAM METAL	26C	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.39

Index	Time	Type	Duration	Units	Component/Substrate	Side	Color	Results	PbC	PbI	PbK
246	2013-10-22 14:45	PAINT	2.02	mg/cm ²	WALL CONCRETE	26D	WHITE	Negative	<LOD:0.03	<LOD:0.05	<LOD:1.95
247	2013-10-22 14:45	PAINT	1.07	mg/cm ²	WINDOW WOOD	26D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:2.08
248	2013-10-22 14:46	PAINT	1.98	mg/cm ²	DOOR METAL	26D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.90
249	2013-10-22 14:46	PAINT	1.08	mg/cm ²	DOOR JAMB METAL	26D	WHITE	Negative	<LOD:0.03	<LOD:0.03	<LOD:3.26
250	2013-10-22 14:48	PAINT	19.92	mg/cm ²		CALIBRATE		Positive	1.00 ± 0.10	1.00 ± 0.10	1.30 ± 0.40
251	2013-10-22 14:49	PAINT	12.83	mg/cm ²		CALIBRATE		Positive	1.50 ± 0.50	1.00 ± 0.10	1.50 ± 0.50
252	2013-10-22 14:50	PAINT	15.61	mg/cm ²		CALIBRATE		Positive	1.50 ± 0.40	0.90 ± 0.10	1.50 ± 0.40
253	2013-10-22 14:51	PAINT	9.25	mg/cm ²		CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	0.80 ± 0.40
254	2013-10-22 14:52	PAINT	19.87	mg/cm ²		CALIBRATE		Positive	1.00 ± 0.10	1.00 ± 0.10	0.70 ± 0.30
255	2013-10-22 14:52	PAINT	1.39	mg/cm ²		CALIBRATE		Null	1.10 ± 0.40	1.10 ± 0.40	<LOD:2.40
256	2013-10-22 14:54	PAINT	16.69	mg/cm ²		CALIBRATE		Positive	1.40 ± 0.40	0.90 ± 0.10	1.40 ± 0.40
257	2013-10-22 14:55	PAINT	7.85	mg/cm ²		CALIBRATE		Positive	1.10 ± 0.10	1.10 ± 0.10	0.70 ± 0.40



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 Lab No. 228619
 Accept Reject

Report Results (one box)
 Quantem Website
 Other

Contact Information		Project Information	
Company: Marshall Environmental	Phone: (405) 616-0401	Project Name: Frederick Armory	
Contact: Jamie Marshall	Cell Phone: (405) 681-6753	Project Location: Frederick, OK	
Account #:	E-mail: marshenv@subell.net	Project ID: 0280-LBP-102213	

Sampled By: Jamie Marshall Date: 10/22/2013

RELINQUISHED BY: [Signature] DATE & TIME: 10/30/13 2:00 VIA Hand

RECEIVED BY: [Signature] DATE & TIME: 10/30/13 2:00

REQUESTED SERVICES (Please the Appropriate Boxes)

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (<input checked="" type="checkbox"/> ONE box only)					Sample Matrix Codes	
							PPM	mg / l	mg / ft ²	µg / m ³	mg / cm ²		
1		Room 1 Floor Composite		108 sq. inch	C	Pb <input checked="" type="checkbox"/>						A	Soil
2		Room 2 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>						B	Paint Chips
3		Room 3 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>						C	Surface / Dust Wipes
4		Room 4 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>						D	Bulk Miscellaneous
5		Room 5 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>						E	Air Cassette
6		Room 6 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>							
7		Room 7 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>							
8		Room 8 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>							
9		Room 9 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>							
10		Room 10 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>							
11		Room 11 Floor Composite		108 sq. inch	C	<input checked="" type="checkbox"/>							
12		Room 12 Floor Composite		108 sq. inch	E (C)	<input checked="" type="checkbox"/>							

TURNAROUND TIME	
<input type="checkbox"/>	Same Day
<input type="checkbox"/>	24 - Hour
<input type="checkbox"/>	3 - Day
<input checked="" type="checkbox"/>	5 - Day



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Lab No. 228619

Accept Reject

Project Information

Company: Marshall Environmental Project Name: Frederick Armory Project Location: Frederick, OK

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis	Units (☑ ONE box only)					Sample Matrix Codes
							PPM	mg / l	mg / ft ²	µg / m ²	mg / cm ²	
13	12 N	Room 12 Floor North		1 sq. foot	C	Pb ✓						A Soil
14	12 S	Room 12 Floor South		1 sq. foot	C	Pb ✓						B Paint Chips
15	12 C	Room 12 Floor Center		1 sq. foot	C	Pb ✓						C Surface / Dust Wipes
16	13	Room 13 Floor Composite		108 sq. inch	C	Pb ✓						D Bulk Miscellaneous
17	14	Room 14 Floor Composite		108 sq. inch	C	Pb ✓						E Air Cassette
18	15	Room 15 Floor Composite		108 sq. inch	C	Pb ✓						
19	16	Room 16 Floor Composite		108 sq. inch	C	Pb ✓						
20	17	Room 17 Floor Composite		108 sq. inch	C	Pb ✓						
21	18	Room 18 Floor Composite		108 sq. inch	C	Pb ✓						
22	19	Room 19 Floor Composite		108 sq. inch	C	Pb ✓						
23	20	Room 20 Floor Composite		108 sq. inch	C	Pb ✓						
24	21	Room 21 Floor Composite		108 sq. inch	C	Pb ✓						
25	22	Room 22 Floor Composite		108 sq. inch	C	Pb ✓						
26	23	Room 23 Floor Composite		108 sq. inch	C	Pb ✓						
27	24	Room 24 Floor Composite		108 sq. inch	C	Pb ✓						
28	25	Room 25 Floor Composite		108 sq. inch	C	Pb ✓						
29	26	Room 26 Floor Composite		108 sq. inch	C	Pb ✓						
30												



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuantEM Set ID: 228619
Date Received: 10/30/13
Received By: Sherric Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 11/6/2013

Client: Marshall Environmental Management, Inc.
 1601 SW 89th Street, Ste. A-100
 Oklahoma City, OK 73159

Acct. No.: A331

Project: Frederick Armory

Location: Frederick, OK

Project No.: 0280-I.BP-102213

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
002	2	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
003	3	Wipe	Lead	28.7	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
004	4	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
005	5	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
006	6	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
007	7	Wipe	Lead	21.3	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
008	8	Wipe	Lead	26.7	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
009	9	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
010	10	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
011	11	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
012	12	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
013	12N	Wipe	Lead	11.1	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
014	12S	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
015	12C	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
016	13	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
017	14	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100

Note: Sample results have not been corrected for blank values.

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Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 228619
Date Received: 10/30/13
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 11/6/2013

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159

Acct. No.: A331

Project: Frederick Armory

Location: Frederick, OK

Project No.: 0280-LBP-102213

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	15	Wipe	Lead	14.4	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
019	16	Wipe	Lead	81.8	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
020	17	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
021	18	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
022	19	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
023	20	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
024	21	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
025	22	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
026	23	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
027	24	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
028	25	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
029	26	Wipe	Lead	<12.0	12	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100

Authorized Signature: _____

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 11507
Test: Lead

Date: 11/6/2013
Matrix: Wipe

Lab Number: 228619
Approved By: Benton Miller
Date Approved: 11/6/2013

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

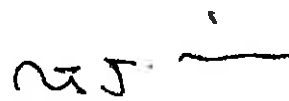
Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.3	5.5
PCV	4.5	5.3	5.5
ICV	0.9	1.03	1.1
RLVS	0.144	0.181	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.020	5.271	105.0	5.677	113.1	7.4

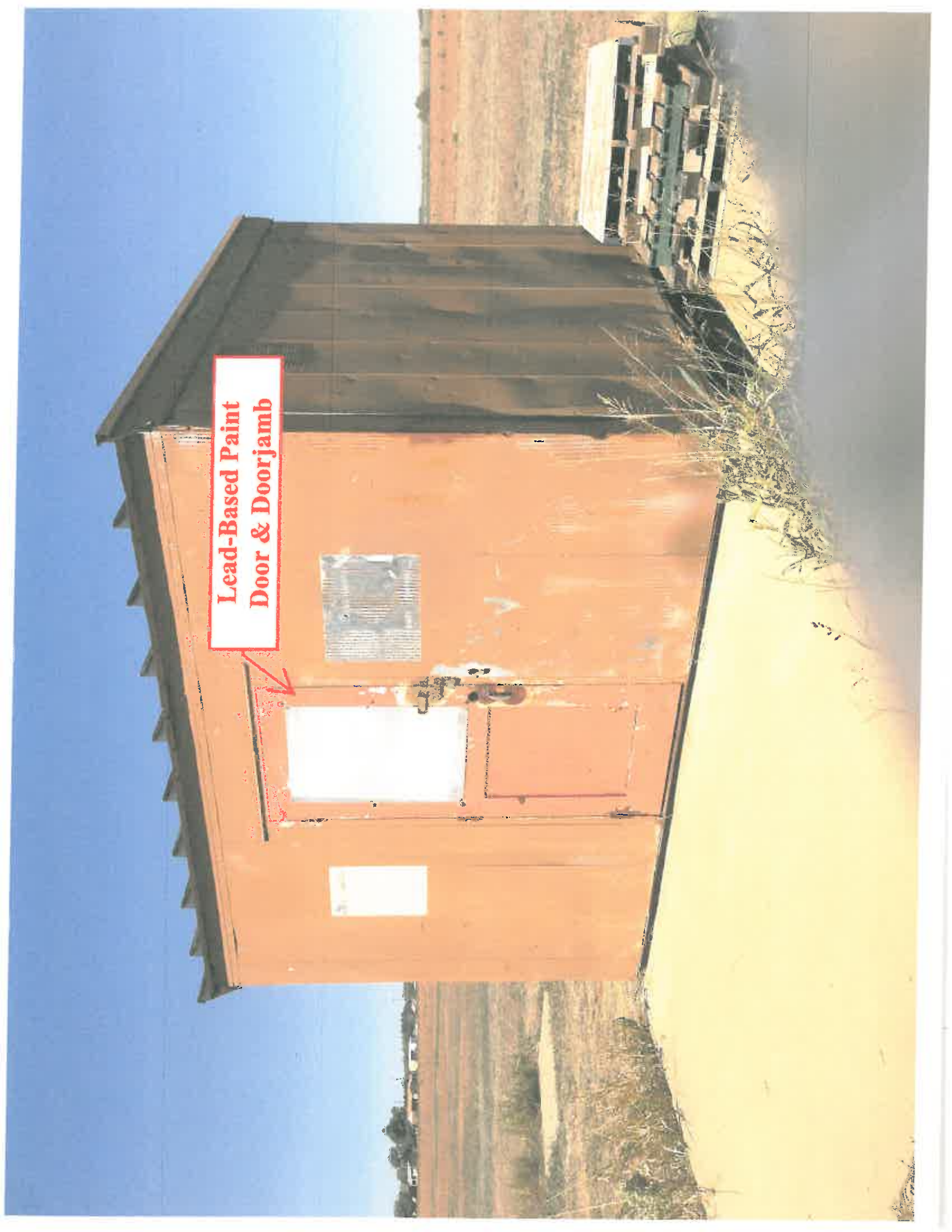
Authorized Signature: _____



Benton Miller, Analyst

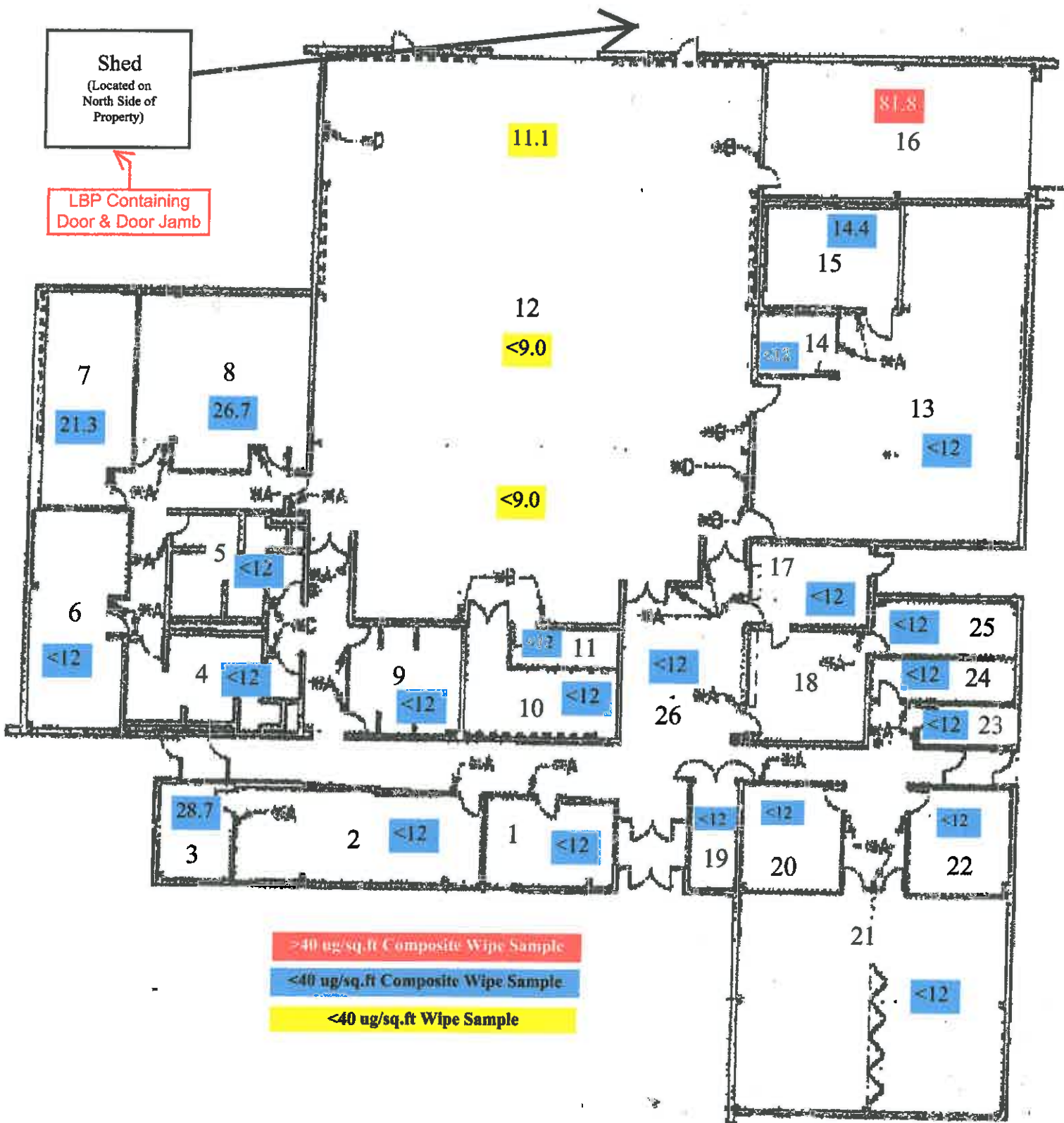


**Lead-Based Paint
Door & Doorjamb**



**Lead-Based Paint
Door & Doorjamb**





Department of Environmental Quality

Under the Category of:

RACHEL WOODS

Who met the specifications of the Performance-Based Position Measurement for
and is currently on a Full-Breadth Plan.

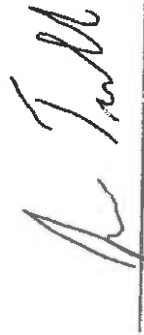
INSPECTOR/RISK ASSESSOR

Certification #: OKR1SR13701

This certificate is valid from the date of issuance and expires as provided below.

Issued on: **4/1/2013**

Expires on: **3/31/2014**


Division Director
Air Quality Division





Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

The State of Oklahoma

MARSHALL ENVIRONMENTAL MANAGEMENT FIRM

This firm is certified under the Oklahoma Lead-Based Paint Management Act
and is certified for Lead-Based Paint.

Certification #: OKFIRM11160

This certificate is valid from the date of issuance and expires as prescribed by law.

Issued on: 4/1/2013

Expires on: 3/31/2014



Division Director
Air Quality Division





Environmental Programs Manager
Air Quality Division

LEAD CONFIRMATION SAMPLING RESULTS



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

**State of Oklahoma
DEQ Land Protection
Attn: Dustin Davidson
707 N. Robinson
Oklahoma City, OK 73102**

Re: QuantEM ID 230806

QuantEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuantEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuantEM Laboratories, LLC.





2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

Quantem Set ID: 230806
Date Received: 01/15/14
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 1/16/2014

Client: State of Oklahoma
DEQ Land Protection
Attn: Dustin Davidson
707 N. Robinson
Oklahoma City, OK 73102
Acct. No.: B486
Project: Frederick Armory
Location: Frederick, OK
Project No.: N/A

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/16/14 8:45	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/16/14 8:45	W NIOSH 9100
003	3	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/16/14 8:45	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/16/14 8:45	W NIOSH 9100

Authorized Signature: _____

Benton Miller, Analyst

Note: Sample results have not been corrected for blank values.

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Wipe materials must meet ASTM E1792 criteria. Method detection limits and resultant reporting limits may not be valid for non-ASTM E1792 wipe material.

EPA Method 7000B (1) = EPA 600/R-93/200 Preparation Modified. EPA 7000B Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7082 Analysis Modified

Supplemental Report QAQC Results

QA ID: 11688
Test: Lead

Date: 1/16/2014
Matrix: Wipe

Lab Number: 230806
Approved By: Benton Miller
Date Approved: 1/16/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.8	5.5
FCV	4.5	4.8	5.5
ICV	0.9	1.03	1.1
RLVS	0.144	0.181	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-WI	0.000	5.000	5.290	105.8	4.951	99.0	6.6

Authorized Signature: _____



Benton Miller, Analyst



www.QuanTEM.com

LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
 Lab No. 230806
 Accept Reject

Report Results (1/2 one box)
 Quantem Website
 Other

Contact Information: Project Information:
 Company: DEA Project Name: Frederick Army
 Contact: Dustin Davidson Project Location: Frederick, OK
 Account #: _____ Project ID: _____
 Sampled By: _____ Name: Dustin Davidson Date: 1/14/14

RELINQUISHED BY: Dustin Davidson DATE & TIME: 1/15/13 12:23 VIA: drop off RECEIVED BY: J. Muller DATE & TIME: 1/15/14 12:20

No.	Sample ID (10 Character Max)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (see matrix code box)	Analysis					Sample Matrix Codes	
						PPM	Wt %	mg/l	µg/ft ²	µg/m ²		mg/cm ²
1	1-4			12" X 12"	Pb			X				A
2												B
3												C
4												D
5												E
6												
7												
8												
9												
10												
11												
12												

TURNAROUND TIME:
 Same Day
 24 - Hour
 3 - Day
 5 - Day

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"