

Former National Guard Armory Guthrie, Oklahoma

Remediation Final Report



**Prepared by:
Department of Environmental Quality
707 North Robinson
Oklahoma City, Oklahoma 73101**



The Oklahoma Department of Environmental Quality (DEQ) is pleased to present the City of Guthrie with the Final Remediation Report for the former Guthrie Armory.



DEED NOTICE

A Notice of Remediation has been filed in the county courthouse and is included in this report. It summarizes remediation performed at the former Guthrie Armory and describes continuing operation and maintenance and land use restrictions. This completes the DEQ cleanup of the property. For more detail on the activities described below, see enclosed reports.

ASBESTOS REMEDIATION

DEQ and its contractors completed the following activities:

- Asbestos inspection, including:
 - Asbestos containing floor tile, mastic and thermal pipe insulation.
- Asbestos Abatement, including:
 - Removal of floor tile and mastic
 - Removal of heater flue insulation

TARGETED BROWNFIELD ASSESSMENT

On August 28, 2012, DEQ provided a Phase I Targeted Brownfield Assessment to the City of Guthrie. A copy of this report is available at <http://www.deq.state.ok.us/lpdnew/scapIndex.htm>

LEAD REMEDIATION

DEQ and its contractors completed the following activities:

Lead-based paint (LBP) inspection

Lead dust wipe sampling

LBP abatement, including:

Scraping and sealing the downspouts, window sills and lintels, overhead door frames, guards, and casings, the IFR vent fan, indented slots, and handrails

Removal of all doors, interior window bars, and deteriorated paint

Indoor firing range cleanup, including:

Lead dust cleanup: high efficiency particulate air (HEPA) vacuuming, wet washing, and sealing with appropriate sealant floors, walls, and ceiling



1	Deeds and Legal Documents
2	Maintenance Plan
3	Inspection Reports
4	Scope of Work
5	Final Abatement Reports
6	Confirmation Sampling

DEEDS AND LEGAL DOCUMENTS

QUITCLAIM DEED



KNOW ALL MEN BY THESE PRESENTS:

That the State of Oklahoma, acting by and through the Oklahoma Military Department by its Adjutant General, Major General Myles L. Deering, a body corporate and politic and instrumentality of the State of Oklahoma, Grantor, in consideration of the sum of One and No/100 dollars and other valuable consideration in hand paid, the receipt and sufficiency of which are hereby acknowledged, do hereby quitclaim, grant, bargain, sell and convey unto the City of Guthrie, Oklahoma, Grantee, the following described real property and premises lying and situated in the Logan County, State of Oklahoma, as follows:

Beginning at a point 80 feet East of the Southeast corner of Block Thirteen (13) in the townsite of East Guthrie, a subdivision of the City of Guthrie, Oklahoma, thence North 300 feet, thence East 300 feet, thence South 300 feet, thence West 300 feet to the place of beginning.

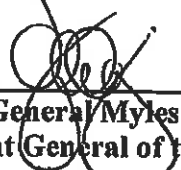
together with the improvements thereon and appurtenances thereunto belonging.

NOTICE: THE ABOVE DESCRIBED PROPERTY MAY HAVE BEEN CONTAMINATED WITH LEAD, ASBESTOS AND OTHER CONTAMINANTS.

TO HAVE AND TO HOLD unto the Grantee, its successors, and assigns for so long as said real property is used for a public purpose as required for this transfer in accordance with title 44, section 233.3(B) of the Oklahoma Statutes.

Signed and delivered this 31 day of January 2011.

STATE OF OKLAHOMA

By: 
Major General Myles L. Deering,
Adjutant General of the State of Oklahoma

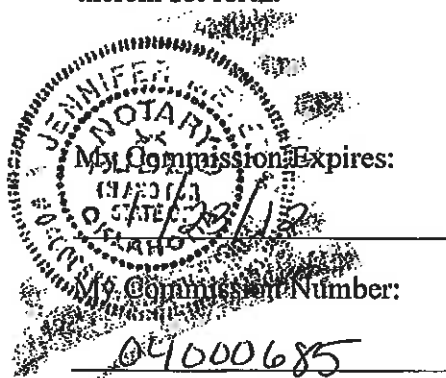
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ACKNOWLEDGMENT

STATE OF OKLAHOMA)
) ss
COUNTY OF OKLAHOMA)

Before me, Jennifer Meyer in and for this state, on this 31 day of January, 2011, personally appeared Major General Myles L. Deering, as Adjutant General of the State of Oklahoma, to me known to be the identical person who executed the within and foregoing Quitclaim Deed, and acknowledged to me that he executed the same as free and voluntary act and deed for the uses and purposes therein set forth.

Jennifer Meyer
Notary Public





DEED NOTICE & LAND USE RESTRICTIONS

COMPLETION OF REMEDIATION FORMER GUTHRIE ARMORY GUTHRIE, OKLAHOMA

AFFECTED PROPERTY: The Affected Property is the former Guthrie Armory located at 720 East Logan Avenue, City of Guthrie, Logan County, Oklahoma 73044.

The legal description is as follows:

Beginning at a point 80 feet East of the Southeast corner of Block Thirteen (13) in the townsite of East Guthrie, a subdivision of the City of Guthrie, Oklahoma, thence North 300 feet, thence East 300 feet, thence South 300 feet, thence West 300 feet to the place of beginning.

LEGAL BASIS FOR NOTICE: The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma Statutes, 27A O.S. § 2-7-123 (C). This Notice does not grant any right to any person not already allowed by law and shall not be construed to authorize or encourage any person or other legal entity to cause or increase pollution, to avoid compliance with state or federal laws and regulations regarding pollution or to escape responsibility for maintaining environmentally sound operations.

DEQ may take administrative or civil action to recover costs or to compel compliance with the Land Use Restrictions and to prevent damage to or interference with the Engineering Controls and Continuing Operation and Maintenance of said Engineering Controls herein described.

The Land Use Restrictions, Engineering Controls and Continuing Operation and Maintenance of said Engineering Controls shall apply to the Affected Property and to persons who own and/or use the Affected Property until such time as DEQ files a subsequent Notice of Remediation that changes or removes one or more of them. Activities that cause or could cause damage to the Remedy or the Engineering Controls or recontamination of soil or groundwater are prohibited.

REASON FOR NOTICE: The Affected Property was contaminated with materials that required remediation pursuant to state and federal environmental laws and regulations. Sampling performed by DEQ contractors, conducted on May 3, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building.

REMEDY: Remediation activities ("Remedy") at the Affected Property included abatement of asbestos, lead-based paint and dust. The remedy was completed on January 16, 2014.

→ DEQ
Attn: Brittany Downs
707 N. Robinson
P.O. Box 1677
Orc Ok 73101

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For more detailed information please refer to *Former National Guard Armory Guthrie, Oklahoma Remediation Final Report*. To obtain a copy of the report, contact:

Oklahoma Department of Environmental Quality
Central Records

Mailing Address
P.O. Box 1677
Oklahoma City, Oklahoma 73101

Physical Address
707 N Robinson
Oklahoma City, OK 73102

Electronic Address
<http://www.deq.state.ok.us/lpdnew/scapIndex.htm>

DISCLAIMER:

- (A) **Lead:** DEQ did not test every painted surface inside and outside of the building; therefore, there is a potential for lead-based paint at the affected property.
- (B) **Asbestos:** DEQ did not test all building materials inside and outside of the building; therefore, there is a potential for asbestos at the affected property.

CONTINUING OPERATION, MAINTENANCE AND MONITORING

- (A) **Lead-based paint encapsulant:** Lead-based paint encapsulant was applied over lead-based paint on non-friction surfaces. These areas should be periodically inspected and maintained as appropriate.
- (B) **Sealant:** Following cleanup, sealant was applied to the Indoor Firing Range (IFR) and room floors where lead-based paint abatement was performed. Sealant should be inspected on a periodic basis and maintained as appropriate.

LAND USE RESTRICTIONS: The land use restrictions are applicable to the IFR. The IFR is located below grade on the west side of the building. The entrance to the IFR is a stairway located in the northwest corner of the building. The land use restrictions for the IFR are:

- a. No residential, daily care, pre K-12 schools, or edible agriculture uses.
- b. No residential use, as defined by US Housing and Urban Development, by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours within one twenty-four (24) hour period.




CHANGING LAND USE RESTRICTIONS: Changes to land use restrictions must be approved by DEQ or its successor agency. The person requesting the change in land use must demonstrate to DEQ's satisfaction that contamination at the site has reached levels appropriate for the proposed new land uses and that further remediation is not necessary or that additional institutional or engineering controls are adequate to achieve levels protective of human health and the environment for the proposed uses.

DEQ may require oversight costs, work plans, sampling, reports, and public participation as part of its review of the new information to support the requested change in land use restrictions. The person requesting the change will be required to follow agency procedures effective at the time of the request.

DEQ at its discretion may determine, based on the new information submitted, that contaminants are present at the Site at levels that will not pose a risk to human health or the environment if the new land use restrictions being requested are allowed. Upon making this determination, DEQ will file a recordable notice of remediation pursuant to state law in the land records in the office of the county clerk where the Site is located designating the new land use restrictions.

This Notice of Remediation and the restrictions and requirements contained herein run with the land and no change of ownership of the Affected Property will change the Land Use Restrictions.



Scott A. Thompson, Executive Director
Oklahoma Department of Environmental Quality

7-29-14

Date


ACKNOWLEDGMENT

STATE OF OKLAHOMA
COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 29th day of July 2014, personally appeared Scott A. Thompson to me known to be the identical person who executed the within and foregoing instrument and acknowledged to me that executed the same as free and voluntary act and deed for the uses and purposed therein set forth. In Testimony Whereof, I have hereunto set my hand and official seal the day and year above written.

My Commission expires:

January 17, 2016.



Notary Public



MAINTENANCE PLAN

**MAINTENANCE PLAN
FORMER GUTHRIE ARMORY
GUTHRIE, OKLAHOMA**

The Armory located at 720 East Logan Avenue, Guthrie, Oklahoma, 73044, was contaminated with materials that required remediation pursuant to State and Federal environmental laws and regulations. Please refer to Attachment 1 for land use restrictions. Sampling performed by DEQ contractors, conducted on May 3, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building. Remediation activities at the Affected Property included abatement of asbestos, lead-based paint, and lead dust. The remedy was completed on January 16, 2014. The following maintenance plan is to be completed by the owner of the Affected Property. DEQ recommends inspection of remediated areas every 5 years. During site inspections the owner should note any signs of disrepair or improper maintenance. Continuing operation, maintenance and monitoring should include:

1. Firing Range – Walls, floor and ceiling of indoor firing range were cleaned and sealed with acrylic sealant to remediate surfaces below 40µg/SF for lead. These surfaces need to be resealed if acrylic sealant shows signs of deterioration, damage, or flaking.
2. All window lintels, window sills, overhead door (OHD) frames, OHD guards, OHD casings, and down spouts were scrapped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking.
3. The indoor firing range external vent fan surround and lintel, and the indented slots on the exterior of the building were scrapped and encapsulated with lead-based paint encapsulant. These surfaces need to be re-encapsulated if lead-based paint encapsulant shows signs of deterioration, damage, or flaking. See Attachment 2 for Guthrie Armory Floor Plan Map.
4. The floor in Room 16 was stripped of lead-based paint and sealed with epoxy to remediate the surface below 40µg/SF. This surface will need to be resealed if acrylic sealant shows signs of deterioration, damage, or flaking.

Note – A list of DEQ approved acrylic sealant and elastomeric encapsulants is attached (Attachment 3). DEQ did not test every painted surface and all building materials inside and outside of the building, therefore there is a potential for lead-based paint and asbestos at the affected property.

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

Sincerely,



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

ATTACHMENT 1

Land use Restrictions

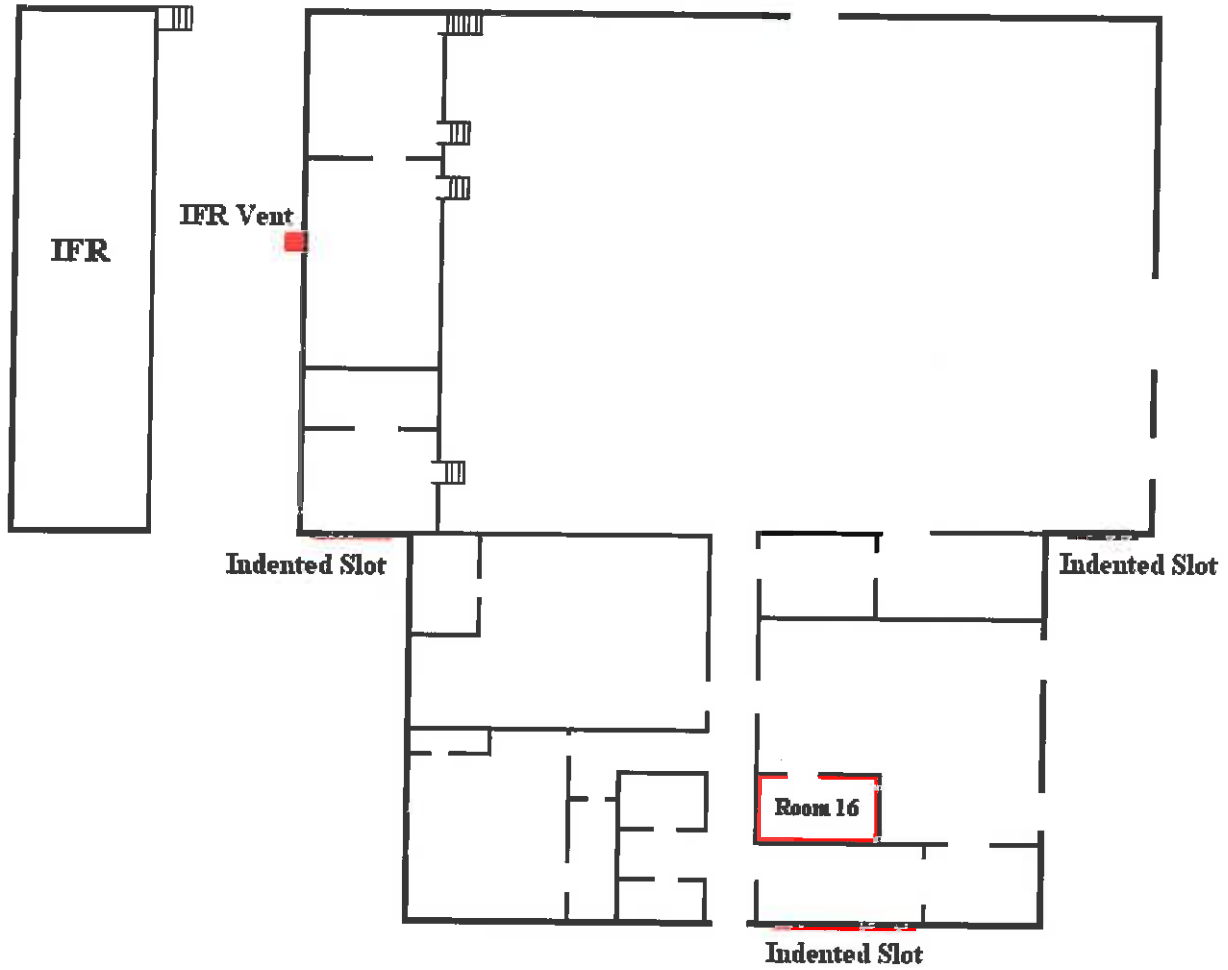
LAND USE RESTRICTIONS: The land use restrictions at the above-described Affected Property are:

- a. No residential, daily care, preK-12 schools, or edible agriculture uses of the Indoor Firing Range.
- a. No residential use of the Indoor Firing Range by children age 6 or under. Residential use is defined as having a child present for more than sixteen (16) hours within one twenty-four (24) hour period.

ATTACHMENT 2

Floor Plan Map

Labeled areas represent walls and floors with encapsulant and/or sealant. IFR is below grade.



*Not to scale
Floor plan approximate*

ATTACHMENT 3

DEQ Approved Sealants and Encapsulants List

Acrylic Sealant approved by DEQ

KM-669 Acrylic

Lead-Based Paint Encapsulants approved by DEQ

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK™
Dumond Chemicals	LEAD STOP™
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal™ I
Encap Systems Corporation	EncapSeal™ II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock™
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP™
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

INSPECTION REPORTS

GUTHRIE ARMORY

DCS Contract Number: ID11070-5



05-03-11

Asbestos Inspection

Prepared For:

Oklahoma Department of Environmental Quality

Land Protection Division

707 North Robinson

Oklahoma City, Oklahoma 73102

Prepared By:

Marshall Environmental Management, Inc.

1601 Southwest 89th Street, Suite A-100

Oklahoma City, Oklahoma 73159

Phone: 405.616.0401

Email: marshenv@swbell.net

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CERTIFICATION

This is to certify that, on May 3, 2011 Marshall Environmental Management, Inc was contracted by the State of Oklahoma, Department of Central Services to conduct an Asbestos Inspection of the Guthrie Armory located at 101 North Second Street in Guthrie, Oklahoma for the State of Oklahoma Department of Environmental Quality, Land Protection Division. This Asbestos Inspection was performed by a Licensed, Oklahoma Department of Labor, Asbestos Hazard Emergency Response Act Inspector Jamie Marshall, representative of Marshall Environmental Management, Inc, under the direction of a Licensed, Oklahoma Department of Labor, Asbestos Hazard Emergency Response Act Management Planner Dr. Charles L. Marshall Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The findings and analytical data resulting from this Asbestos Inspection are believed to accurately, depict the condition(s) and location(s) of material(s) that contain asbestos on the date this Inspection was conducted.

Charles L. Marshall

7/15/11
Date

Dr. Charles L. Marshall, CIH, CSP

Certified Industrial Hygienist - Comprehensive Practice Certification		#4489
Certified Safety Professional - Comprehensive Practice Certification		#9941
Registered Professional Environmental Specialist - State Department of Health		#710
Certified Hazardous Materials Manager, Master Level Certification		#1909
Certified Healthcare Safety Professional, Master Level Certification		#521
EPA AHERA Certifications	Asbestos Inspector	#400517
	Management Planner	#500396
	Project Designer	#2415
ODOL License	Project Designer	#OKMP-0028
	Management Planner	#OKMP-0246
	Asbestos Inspector	#OK-150343

Jamie Marshall

7-15-11
Date

Jamie Marshall, B.S., Industrial Hygiene Associate

ODOL License	Asbestos Inspector	#OK-158090
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LABORATORY ANALYSIS PERFORMED BY

Marshall Environmental Management, Inc.
1601 Southwest 89th Street, A-100
Oklahoma City, OK 73159

GUTHRIE ARMORY

ASBESTOS INSPECTION

EXECUTIVE SUMMARY

On May 3, 2011, Marshall Environmental Management, Inc. (MEM) completed an Asbestos Inspection of the Guthrie Armory so, if necessary, a strategy, which follows the regulations set forth by the Environmental Protection Agency (EPA), may be prepared for the management and/or abatement of Asbestos Containing Materials (ACM) if present. As such, the analytical results correlating with the samples that were collected as part of this Asbestos Inspection identified the presence of asbestos containing floor-tile mastic in room 8, 10, 11 and 19 and an asbestos containing heater flue located in room 6. Asbestos containing homogenous materials (i.e. suspected ACM that are uniform in color and texture and believed to be applied during the same period) include the aforementioned areas that were sampled and analyzed.

The asbestos concentrations identified in the floor-tile mastic were greater than one percent (>1%). Furthermore, the asbestos containing mastic is considered non-friable, that which cannot be rendered to a powder by hand pressure, and are therefore categorized as a "Category I Non-Friable" ACM. Although asbestos containing mastic exists within the Armory, no action is required as long as the material remains in good condition and undisturbed. If the mastic remains in place, an Asbestos Management Plan is recommended to be written, by a Licensed Oklahoma Department of Labor (ODOL) Management Planner, and in place for the purpose of preventing or assisting with activities that could disturb these ACM. However, the mastic must be abated should any activities have the potential to render the material friable. Even though the abatement of the mastic is not regulated by the ODOL, an Asbestos Abatement Contractor licensed by the ODOL is recommended to carry out the abatement to make certain that Occupational Safety and Health Administration (OSHA) and EPA compliant methods are utilized.

Since the asbestos concentrations detected in the flue are >1% and because this material is considered friable the flue is classified as a "Regulated" ACM. Therefore, as required by EPA regulations to ensure that OSHA and EPA compliant methods are utilized the abatement and disposal of this material is required to be treated as a regulated response action, which must be accomplished by a Licensed ODOL Asbestos Abatement Contractor. Moreover, given that the abatement of the flue will require more than one "Glove-bag" containment a Project Design must be written by a licensed Project Designer and approved by the ODOL.

Lastly, a National Emission Standard for Hazardous Air Pollutants (NESHAP) notification must be submitted to the Oklahoma Department of Environmental Quality (ODEQ) 10-business days preceding the initiation of renovation and/or demolition activities where ACM are present in quantities that meet or exceed 160-square feet, 260-linear feet or 35-cubic feet.

The remainder of this Report is comprised of the Sampling Strategy and Methodology, the Observations and Findings, Asbestos Response Actions, the Regulatory Review, Limitations of the Survey and the Appendix to this Report.

SAMPLING STRATEGY AND METHODOLOGY

Each accessible area throughout the Armory was systematically inspected in order to collect samples of building materials suspected of containing asbestos. The sample collection process includes thoroughly documenting the location, condition, classification and the 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 material is considered asbestos containing. The following are examples of the types of materials that were visually inspected and sampled during this Asbestos Inspection:

Surfacing Materials

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

Thermal System Insulation (TSI)

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

Miscellaneous Materials

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

"Asbestos Containing Materials" are any materials, which consist of greater than one percent (>1%) asbestos as defined by the EPA Approved Analytical Method: 40 Code of Federal Regulations (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. Each sample collected was submitted for analysis in accordance with the EPA authorized Method: 600 49 CFR Part 61 Subpart M, Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) Rules.

OBSERVATIONS AND FINDINGS

The Guthrie Armory is a one-story structure comprised of a rock façade and a flat roof that was constructed on a concrete slab circa 1938. The laboratory analysis associated with the samples that were collected detected asbestos containing floor-tile mastic in rooms 8, 10, 11 and 19 and an asbestos containing heater flue located in room 6. Approximately 1,187-square feet (ft²) of asbestos containing floor-tile mastic and 10-linear feet of heater flue were identified. Asbestos containing homogenous materials include the areas that were sampled and analyzed. Correlating chain of custody forms and the laboratory analysis are provided for your records in the Appendix to this Report. Table I summarizes the sampling location and description of the ACM, the percent and type of asbestos detected and the type and condition of the material. Tables II and III reflect the homogenous locations and quantities of the respective ACM.

TABLE I: SUMMARY OF ASBESTOS CONTAINING MATERIALS

SAMPLE #	SAMPLE LOCATION	SAMPLE DESCRIPTION	% ASBESTOS	ASBESTOS TYPE	MATERIAL TYPE	CONDITION
0040-10	ROOM 8	FLOOR-TILE MASTIC	3%	CHRYBOTILE	MISC	GOOD
0040-20	ROOM 6	HEATER FLUE	90%	CHRYBOTILE	TSI	GOOD
0040-31	ROOM 19	FLOOR-TILE MASTIC	4%	CHRYBOTILE	MISC	GOOD
0040-33	ROOM 10	FLOOR-TILE MASTIC	4%	CHRYBOTILE	MISC	GOOD
0040-35	ROOM 11	FLOOR-TILE MASTIC	4%	CHRYBOTILE	MISC	GOOD

TABLE II: LOCATIONS AND QUANTITIES OF ASBESTOS CONTAINING FLOOR TILE

SAMPLE LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITY
ROOM 8	FLOOR-TILE MASTIC	~156-ft ²
ROOM 19	FLOOR-TILE MASTIC	~225-ft ²
ROOM 10	FLOOR-TILE MASTIC	~637-ft ²
ROOM 11	FLOOR-TILE MASTIC	~169-ft ²
TOTAL QUANTITIES		~1,187-ft ²

TABLE III: LOCATIONS AND QUANTITIES OF ASBESTOS CONTAINING HEATER FLUE

SAMPLE LOCATION	SAMPLE DESCRIPTION	INDIVIDUAL QUANTITY
ROOM 6	HEATER FLUE	~10-linear ft
TOTAL QUANTITIES		~10-linear ft

ASBESTOS RESPONSE ACTIONS

- Although asbestos containing floor-tile mastic and flue exist within the Armory no action is required as long as these materials remain in good condition and undisturbed
- If the asbestos containing floor-tile mastic and flue remain in the Armory, an Asbestos Management Plan is recommended to be in place
- The asbestos containing floor-tile mastic and flue must be abated should any activities have the potential to render these materials friable
- Recommendations will suggest that an ODOL, Licensed Asbestos Abatement Contractor carryout the abatement of the asbestos containing floor tile and floor tile mastic to make certain that OSHA and EPA compliant methods are utilized
- The abatement and disposal of the asbestos containing flue is required to be treated as a regulated response action, which must be accomplished by a Licensed ODOL Asbestos Abatement Contractor
- Due to the quantities of asbestos containing flue, a Project Design must be submitted to and approved by the ODOL prior to the commencement of abatement activities
- A NESHAP notification must be submitted to the ODEQ 10-business days preceding the initiation of renovation and/or demolition activities where asbestos containing materials are present in quantities that meet or exceed 160-ft², 260-linear feet or 35-cubic feet (ft³)

REGULATORY REVIEW

Prior to 1980 asbestos was commonly utilized during construction in addition to being found in various building materials. In 1994, Occupational Safety and Health Administration (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. The EPA and the Oklahoma Department Of Labor (ODOL) define an ACM as any material that contains concentrations of asbestos >1%.

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 pipe insulation and various equipment insulation that contains asbestos as well as rooms where asbestos is present be identified with an Asbestos Warning Label. The asbestos warning labels are to be readily visible and include the following warning:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID BREATHING DUST
CANCER AND LUNG DISEASE HAZARD

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 EPA requires asbestos inspections in school buildings in grades K 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, that which can be rendered to a powder by hand pressure, Category I or II non-friable. The AHERA Inspection must also evaluate the condition and the potential for disturbance of ACM.

In addition to AHERA, the EPA also regulates commercial asbestos abatement activities. A NESHAP notification is required to be submitted to the ODEQ 10-business day prior to the abatement of ACM whenever the quantities meet or exceed 160-square feet, 260-linear feet or 35-cubic feet. Instruction regarding NESHAP notification requirements and ODEQ compliance are provided on the DEQ website at:

<http://www.deq.state.ok.us/odhew/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 at: <http://www.ok.gov/odol/>

LIMITATIONS OF SURVEY

This Asbestos Inspection was limited to certain aspects of the building construction these limitations may have restricted or prevented the complete inspection of hidden or inaccessible building materials; therefore, inaccessible building materials were not inspected. Furthermore, locations presenting a hazard to bystanders or the Inspector were not assessed.

The findings resulting from this Inspection are valid as of the date this Asbestos Inspection was performed; however, changes in the conditions of a property 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 this Asbestos Inspection were obtained and reported in accordance with generally accepted principles and practices. No other representations either expressed or implied are made; thus, Marshall Environmental Management, Inc. 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 this Asbestos Inspection.

APPENDIX

CHAIN OF CUSTODY & ANALYTICAL RESULTS

LICENSES

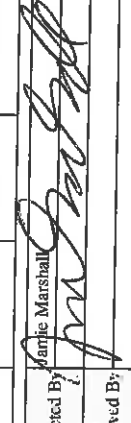
FLOOR PLAN DIAGRAM

DIGITAL PHOTOGRAPHS

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO					
Project Identification	0053-AB-050311	Client/Company	State of Oklahoma - DCS Construction & Properties Division	Client/Company	OK Dept. of Environmental Quality Land Protection Division	Attention	Dustin Davidson	Attention	Environmental Programs Specialist	Address	P.O. Box 1677 Oklahoma City, OK 73102	Phone Number	405-702-5115
Project Name	Guthrie Armory Asbestos Inspection	Attention Title	Cindy Melton Administrative Programs Officer	Invoice To Address	P.O. Box 53448 Oklahoma City, OK 73102	Phone Number	405-522-4805	Phone Number	405-702-5115	Fax Number		Fax Number	
Project Address	101 North Second Street Guthrie, OK 73044	Invoice To Address		Phone Number	405-522-4805	Fax Number	405-522-0051	Mobile Number		Mobile Number		E-mail Address	dustin.davidson@deq.ok.gov
Site Contact	Matt Mueller, City Manager	Phone Number		Mobile Number		E-mail Address	cindy_melton@dcs.state.ok.us	E-mail Address					
Phone Number	405-282-0488	E-mail Address	mmueller@cityofguthrie.com										
Mobile Number													
E-mail													

Lab Id.	Sample Date	Field Id.	Sample Description (Floor, tile, Mastic, Drywall, Etc.)	Sample Location (Room, Lobby, Ceiling, (NW Corner)	Sample Matrix	Sample Media	Sample Time	Volume/Area	Unit	Analysis/ Parameters
0040	5/3/2011	PLM-01	Cove Base	Room 19	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-02	Cove Base Mastic	Room 19	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-03	Cove Base	Room 1	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-04	Cove Base Mastic	Room 1	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-05	Cove Base	Room 2	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-06	Cove Base Mastic	Room 2	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-07	Pinhole Ceiling Tile	Room 8	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-08	Pinhole Ceiling Tile	Room 10	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-09	Pinhole Ceiling Tile	Room 10	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-10	Black Floor Tile Mastic	Room 8	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification


Collected By:	Jamie Marshall	Date:	5/3/2011	Relinquished By:	N/A
Received By:		Time:	17:00	Relinquished By:	N/A
Turn-Around Time:	5-7 Business Days	Signature:		Signature:	
Standard:	Next Day	Time:		Time:	
Rush:	Same Day	Condition Upon Receipt:	Acceptable	Method of Shipment:	Jamie Marshall
Immediate:		Sample Notes:	In Folder		

Matrix	Micro-Yuccum	Mold Plate	Spoil Trap	Swab	Tap-Lift
Air					
Aqueous					
Bulk					
Sludge					
Soil					
Solid					
Page	1				5

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO			
Project Identification	0053-AB-050311			Client/Company	State of Oklahoma - DCS Construction & Properties Division			Client/Company	OK Dept. of Environmental Quality Land Protection Division		
Project Name	Guthrie Armory Asbestos Inspection			Attention	Cindy Melton			Attention	Dustin Davidson		
Project Address	101 North Second Street Guthrie, OK 73044			Title	Administrative Programs Officer			Title	Environmental Programs Specialist		
Site Contact	Matt Mueller, City Manager			Invoice To Address	P.O. Box 53448 Oklahoma City, OK 73102			Address	P.O. Box 1677 Oklahoma City, OK 73102		
Phone Number	405-282-0488			Phone Number	405-522-4805			Phone Number	405-702-5115		
Mobile Number				Fax Number	405-522-0051			Fax Number			
email	mmueller@cityofguthrie.com			Mobile Number				Mobile Number			
				E-mail Address	cindy_melton@dcs.state.ok.us			E-mail Address	dustin.davidson@deq.ok.gov		

Lab Id.	Sample Date	Field Id.	Sample Description (Floor, Wall, Ceiling, Drywall, Etc.)	Sample Location (Room, Lobby, Ceiling, NW Corner)	Sample Matrix	Sample Media	Sample Unit	Volume/Area	Unit	Analysis Parameters
0040	5/3/2011	PLM-11	Drywall	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-12	Drywall	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-13	Drywall	Room 10	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-14	Bedding-Tape	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-15	Bedding-Mud	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-16	Bedding-Tape	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-17	Bedding-Mud	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-18	Bedding-Tape	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-19	Bedding-Mud	Room 5	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-20	Heater Flue	Room 6	Bulk	N/A	N/A	N/A	N/A	PLM Asbestos Identification


Collected By	Jamie Marshall		Date	5/3/2011	Relinquished By	N/A	
Received By			Time	17:00	Relinquished Date	N/A	
Turn-Around-Time	Standard	5-7 Business Days	Signature	(print)	Signature		
	Rush	Next Day	Signature	(print)	Signature		
	Immediate	Same Day	Signature	(print)	Signature		
Condition Upon Receipt			Acceptable				
Sample Notes			In Folder				
Method of Shipment			Jannie Marshall				

Matrix	Volume	Media	Matrix	Volume	Media
Air	N/A	Air	MV	MP	ST
Aqueous	N/A	Aqueous	Mold Plate	Mold Plate	Spore Trap
Bulk	N/A	Bulk	Mold Plate	Mold Plate	Spore Trap
Sludge	N/A	Sludge	Mold Plate	Mold Plate	Spore Trap
Soil	N/A	Soil	Mold Plate	Mold Plate	Spore Trap
Solid	N/A	Solid	Mold Plate	Mold Plate	Spore Trap
Page	2	Page	2	Page	5

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO					
Project Identification	0053-AB-050311	Client/Company	State of Oklahoma - DCS Construction & Properties Division	Client/Company	OK Dept. of Environmental Quality Land Protection Division	Attention	Dustin Davidson	Attention	Dustin Davidson	Environmental Programs Specialist			
Project Name	Guthrie Army Asbestos Inspection	Attention Title	Cindy Melton Administrative Programs Officer	Invoice To Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102				
Project Address	101 North Second Street Guthrie, OK 73044	Phone Number	405-522-4805	Phone Number	405-522-4805	Phone Number	405-702-5115	Phone Number	405-702-5115				
Site Contact	Matt Mueller, City Manager	Fax Number	405-282-0488	Fax Number	405-522-0051	Fax Number		Fax Number					
Phone Number	405-282-0488	Mobile Number		Mobile Number		Mobile Number		Mobile Number					
Mobile Number		E-mail Address	mmueller@cityofguthrie.com	E-mail Address	cindy_melton@dcs.state.ok.us	E-mail Address	dustin.davidson@deq.ok.gov	E-mail Address	dustin.davidson@deq.ok.gov				

Lab Id.	Sample Date	Field Id	Sample Description (Floor tile, Mastic, Dry-wall, Etc.)	Sample Location (Lobby, Ceiling, NW Corner)	Sample Matrix	Sample Media	Sample Time	Volume/ Area	Unit	Analysis Parameters
0040	5/3/2011	PLM-21	Red Floor Tile	Room 16	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-22	Floor-Tile Mastic (under red floor tile)	Room 16	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-23	Red Floor Tile	Room 18	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-24	Floor-Tile Mastic (under red floor tile)	Room 18	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-25	Red Floor Tile	Room 16	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-26	Floor-Tile Mastic (under red floor tile)	Room 16	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-27	1x1 Ceiling Tile	Room 14	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-28	1x1 Ceiling Tile	Room 14	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-29	1x1 Ceiling Tile	Room 14	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification
0040	5/3/2011	PLM-30	Beige Floor Tile	Room 19	Bulk	N/A	On Off	N/A	N/A	PLM Asbestos Identification

Collected By	Jamie Marshall	Date	5/3/2011	Relinquished By	N/A
Reviewed By		Time	17:00	Relinquished By	N/A
Turn-Around Time	5-7 Business Days	Date		Signature	
Standard	5-7 Business Days	Time		Signature	
Rush	Next Day	Date		Signature	
Immediate	Same Day	Time		Signature	


Condition Upon Receipt: Acceptable		Method of Shipment: Jamie Marshall	
Matrix	Air	Micro-Action	Mold Plate
Matrix	Aqueous	Micro-Action	Spore Trap
Matrix	Bulk	Micro-Action	Swab
Matrix	Sludge	Micro-Action	Spore Trap
Matrix	Soil	Micro-Action	Spore Trap
Matrix	Solid	Micro-Action	Spore Trap

Page	3	of	5
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Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION			INVOICE TO			REPORT TO			
Project Identification	0053-AB-050311	Client/Company	State of Oklahoma - DCS Construction & Properties Division			Client/Company	OK Dept. of Environmental Quality Land Protection Division		
Project Name	Guthrie Armory Asbestos Inspection	Attention	Cindy Melton			Attention	Dustin Davidson		
Project Address	101 North Second Street Guthrie, OK 73044	Title	Administrative Programs Officer			Title	Environmental Programs Specialist		
Site Contact	Matt Mueller, City Manager	Invoice To Address	P.O. Box 53448 Oklahoma City, OK 73102			Address	P.O. Box 1677 Oklahoma City, OK 73102		
Phone Number	405-282-0488	Phone Number	405-522-4805			Phone Number	405-702-5115		
Mobile Number		Fax Number	405-522-0051			Fax Number			
email	mmueller@cityofguthrie.com	Mobile Number				Mobile Number			
		E-mail Address	cindy_melton@dcs.state.ok.us			E-mail Address	dustin.davidson@deg.ok.gov		

Lab Id.	Sample Date	Field Id.	Sample Description (Floor tile, Mastic, Dry wall, Etc.)	Sample Location (Lobby, Ceiling, NW Corner)	Sample Matrix	Sample Media	Sample Time		Volume Area	Unit	Analytes / Parameters
							On	Off			
0040	5/3/2011	PLM-31	Black Mastic	Room 19	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-32	Beige Floor Tile	Room 10	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-33	Black Mastic	Room 10	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-34	Beige Floor Tile	Room 11	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-35	Black Mastic	Room 11	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-36	Sculpted Ceiling Tile	Room 8	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-37	Sculpted Ceiling Tile	Room 11	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-38	Sculpted Ceiling Tile	Room 11	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-39	White Ceiling Tile	Room 8	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification
0040	5/3/2011	PLM-40	White Ceiling Tile	Room 11	Bulk	N/A		N/A	N/A	PLM	Asbestos Identification

Collected By:	Jamie Marshall	Date:	5/3/2011	Relinquished:	N/A
Received By:		Time:	17:00	By:	N/A
Turn-Around Time:		Date:		Relinquished:	
Stabilized	5-7 Business Days	Time:		By:	
Rush	Next Day	Date:		Relinquished:	
Immediate	Same Day	Time:		By:	
Condition Upon Receipt:		Acceptable			
Sample Notes:		In Folder			
Method of Shipment:		Jamie Marshall			
Matrix:		Air			
Media:		Bulk			
Mold Plate:		Micro-Vacuum			
Spore Trap:		Soil			
Swab:		Solid			
Tap-Lift:		Page: 4 of 5			

Marshall Environmental Management, Inc. Chain Of Custody

PROJECT INFORMATION				INVOICE TO				REPORT TO					
Project Identification	0053-AB-050311	Client/Company	State of Oklahoma - DCS Construction & Properties Division	Client/Company	OK Dept. of Environmental Quality Land Protection Division	Attention	Dustin Davidson	Attention	Dustin Davidson	Title	Environmental Programs Specialist	Address	P.O. Box 1677 Oklahoma City, OK 73102
Project Name	Guthrie Armory Asbestos Inspection	Attention	Cindy Melton	Administrative Programs Officer	Invoice To Address	Phone Number	405-522-4805	Phone Number	405-702-5115	Fax Number		Fax Number	
Project Address	101 North Second Street Guthrie, OK 73044	Mobile Number			E-mail Address	Mobile Number		Mobile Number		E-mail Address		E-mail Address	dustin.davidson@deg.ok.gov
Site Contact	Matt Mueller, City Manager	E-mail Address	mmueller@cityofguthrie.com	Sample Location (Lobby, Ceiling, NW Corner)	Room 11	Sample Matrix	Bulk	Sample Media	N/A	Sample Time	On N/A Off N/A	Volume/Area	N/A
Phone Number	405-282-0488	Sample Description (Floor tile, Mason, Drywall, Etc.)	White Ceiling Tile	Sample Matrix	Bulk	Sample Media	N/A	Sample Time	On N/A Off N/A	Volume/Area	N/A	Unit	PLM
Mobile Number		Requisitioned (Date, Time)	5/3/2011 17:00	Requisitioned By	N/A	Requisitioned		Requisitioned		Unit	N/A	Analysis/ Parameters	Asbestos Identification
email	mmueller@cityofguthrie.com	Requisitioned (Date, Time)		Requisitioned By		Requisitioned		Requisitioned		Unit		Analysis/ Parameters	
Lab Id.	0040	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Sample Date	5/3/2011	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Field Id.	PLM-41	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Collected By	Jamie Marshall	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Received By	Jamie Marshall	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Turn-Around Time	5-7 Business Days	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Standard	Next Day	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Rush	Same Day	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Immediate		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Condition Upon Receipt	Acceptable	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Method of Shipment	Jamie Marshall	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Matrix	Air	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Media	Aqueous	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Matrix	Bulk	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Media	Sludge	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Media	Soil	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Media	Solid	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
Page	5	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	
of	5	Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Signature (Date, Time)		Unit		Analysis/ Parameters	

Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100

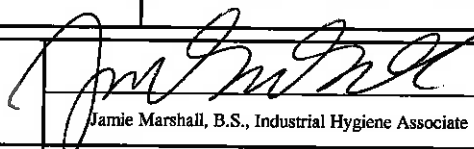
Oklahoma City, OK 73159

Phone: (405) 616-0401 Fax: (405) 681-6753

marshenv@swbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0053-AB-050311	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	Guthrie Armory Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson
Project Address	101 North Second Street Guthrie, OK 73044	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Matt Mueller, City Manager	Phone	405-522-4805	Phone	405-702-5115
Phone	405-282-0488	Fax	405-522-0051	Fax	
Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0040-050311-PLM-01	May 3, 2011	Cove Base	Brown	Good		100% Rubber
		Room 19	Miscellaneous			
0040-050311-PLM-02	May 3, 2011	Cove Base Mastic	White	Good		100% Adhesive
		Room 19	Miscellaneous			
0040-050311-PLM-03	May 3, 2011	Cove Base	Brown	Good		100% Rubber
		Room 1	Miscellaneous			
0040-050311-PLM-04	May 3, 2011	Cove Base Mastic	White	Good		100% Adhesive
		Room 1	Miscellaneous			
0040-050311-PLM-05	May 3, 2011	Cove Base	Brown	Good		100% Rubber
		Room 2	Miscellaneous			

Jamie Marshall	 Jamie Marshall, B.S., Industrial Hygiene Associate	May 13, 2011
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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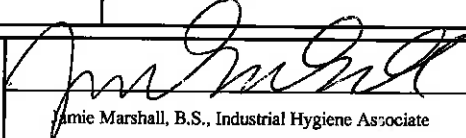
Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100
Oklahoma City, OK 73159
Phone: (405) 616-0401 Fax: (405) 681-6753
marshenv@swbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0053-AB-050311	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	Guthrie Armory Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson
Project Address	101 North Second Street Guthrie, OK 73044	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Matt Mueller, City Manager	Phone	405-522-4805	Phone	405-702-5115
Phone	405-282-0488	Fax	405-522-0051	Fax	
Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
				COLOR	White		
0040-050311-PLM-06	May 3, 2011	Room 2	Cove Base Mastic	COLOR	White		100% Adhesive
			CONDITION	Good			
			TYPE	Miscellaneous			
			NOTE				
0040-050311-PLM-07	May 3, 2011	Room 8	Pinhole Ceiling Tile	COLOR	White		30% Calcareous Material
			CONDITION	Good		30% Cellulose	
			TYPE	Miscellaneous		40% Fibrous Glass	
			NOTE				
0040-050311-PLM-08	May 3, 2011	Room 10	Pinhole Ceiling Tile	COLOR	White		30% Calcareous Material
			CONDITION	Good		30% Cellulose	
			TYPE	Miscellaneous		40% Fibrous Glass	
			NOTE				
0040-050311-PLM-09	May 3, 2011	Room 10	Pinhole Ceiling Tile	COLOR	White		30% Calcareous Material
			CONDITION	Good		30% Cellulose	
			TYPE	Miscellaneous		40% Fibrous Glass	
			NOTE				
0040-050311-PLM-10	May 3, 2011	Room 8	Black Floor-Tile Mastic	COLOR	Black	3% Chrysotile	97% Tar
			CONDITION	Good			
			TYPE	Miscellaneous			
			NOTE				

Jamie Marshall ANALYST NAME (PRINT)	 Jamie Marshall, B.S., Industrial Hygiene Associate ANALYST SIGNATURE	May 13, 2011 DATE ANALYZED
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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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Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100

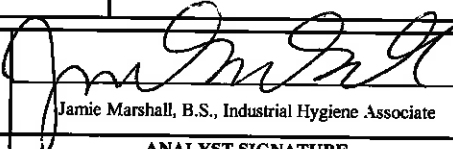
Oklahoma City, OK 73159

Phone: (405) 616-0401 Fax: (405) 681-6753

marshenv@swbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0053-AB-050311	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	Guthrie Armory Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson
Project Address	101 North Second Street Guthrie, OK 73044	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Matt Mueller, City Manager	Phone	405-522-4805	Phone	405-702-5115
Phone	405-282-0488	Fax	405-522-0051	Fax	
Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
0040-050311-PLM-11	0040-050311-PLM-11	May 3, 2011	Drywall Room 5	COLOR White	CONDITION Good	97% Calcareous Material	3% Cellulose
				TYPE Miscellaneous	NOTE		
0040-050311-PLM-12	0040-050311-PLM-12	May 3, 2011	Drywall Room 5	COLOR White	CONDITION Good	97% Calcareous Material	3% Cellulose
				TYPE Miscellaneous	NOTE		
0040-050311-PLM-13	0040-050311-PLM-13	May 3, 2011	Drywall Room 10	COLOR White	CONDITION Good	97% Calcareous Material	3% Cellulose
				TYPE Miscellaneous	NOTE		
0040-050311-PLM-14	0040-050311-PLM-14	May 3, 2011	Bedding-Tape Room 5	COLOR Yellow	CONDITION Good	10% Adhesive	90% Fibrous Glass
				TYPE Miscellaneous	NOTE		
0040-050311-PLM-15	0040-050311-PLM-15	May 3, 2011	Bedding-Mud Room 5	COLOR White	CONDITION Good	100% Calcareous Material	
				TYPE Miscellaneous	NOTE		

Jamie Marshall		May 13, 2011
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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Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

1601 Southwest 890th Street, Suite A-100

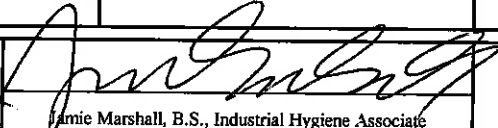
Oklahoma City, OK 73159

Phone: (405) 616-0401 Fax: (405) 681-6753

marshenv@swbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0053-AB-050311	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	Guthrie Armory Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson
Project Address	101 North Second Street Guthrie, OK 73044	Address	P.O. Box 53448 Oklahoma City, OK 73102	Address	P.O. Box 1677 Oklahoma City, OK 73102
Contact	Matt Mueller, City Manager	Phone	405-522-4805	Phone	405-702-5115
Phone	405-282-0488	Fax	405-522-0051	Fax	
Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED		
0040-050311-PLM-16	May 3, 2011	Bedding-Tape	COLOR	Yellow		10% Adhesive	
		Room 5	CONDITION	Good		90% Calcareous Material	
			TYPE	Miscellaneous			
			NOTE				
0040-050311-PLM-17	May 3, 2011	Bedding-Mud	COLOR	White		100% Calcareous Material	
		Room 5	CONDITION	Good			
			TYPE	Miscellaneous			
			NOTE				
0040-050311-PLM-18	May 3, 2011	Bedding-Tape	COLOR	Yellow		10% Adhesive	
		Room 5	CONDITION	Good		90% Calcareous Material	
			TYPE	Miscellaneous			
			NOTE				
0040-050311-PLM-19	May 3, 2011	Bedding-Mud	COLOR	White		100% Calcareous Material	
		Room 5	CONDITION	Good			
			TYPE	Miscellaneous			
			NOTE				
0040-050311-PLM-20	May 3, 2011	Heater Flue	COLOR	White	90% Chrysotile	10% Calcareous Material	
		Room 6	CONDITION	Good			
			TYPE	Thermal System Insulation			
			NOTE				

Jamie Marshall		May 13, 2011
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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Bulk Asbestos Analysis

Marshall Environmental Management, Inc.

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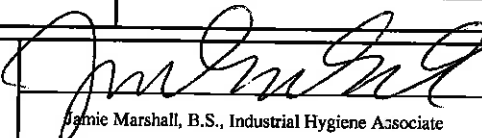
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marshenv@swbell.net

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Phone	405-282-0488	Fax	405-522-0051	Fax	
Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED		
			COLOR	CONDITION			
0040-050311-PLM-21	May 3, 2011	Floor Tile	Red	Good	100%	Vinyl Aggregate	
		Room 16	Miscellaneous				
0040-050311-PLM-22	May 3, 2011	Floor-Tile Mastic	Brown	Good	100%	Adhesive	
		(under red floor tile)	Miscellaneous				
		Room 16					
0040-050311-PLM-23	May 3, 2011	Red Floor Tile	Red	Good	100%	Vinyl Aggregate	
		Room 18	Miscellaneous				
0040-050311-PLM-24	May 3, 2011	Floor-Tile Mastic	Brown	Good	100%	Adhesive	
		(under red floor tile)	Miscellaneous				
		Room 18					
0040-050311-PLM-25	May 3, 2011	Red Floor Tile	Red	Good	100%	Vinyl Aggregate	
		Room 16	Miscellaneous				

Jamie Marshall	 Jamie Marshall, B.S., Industrial Hygiene Associate	May 13, 2011
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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Phone	405-282-0488	Fax	405-522-0051	Fax	
Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
				COLOR			
0040-050311-PLM-26	May 3, 2011	Room 16	Floor-Tile Mastic (under red floor tile)	Brown	Good		100% Adhesive
			Miscellaneous				
0040-050311-PLM-27	May 3, 2011	Room 14	1x1 Ceiling Tile	Brown	Good		100% Cellulose
			Miscellaneous				
0040-050311-PLM-28	May 3, 2011	Room 14	1x1 Ceiling Tile	Brown	Good		100% Cellulose
			Miscellaneous				
0040-050311-PLM-29	May 3, 2011	Room 14	1x1 Ceiling Tile	Brown	Good		100% Cellulose
			Miscellaneous				
0040-050311-PLM-30	May 3, 2011	Room 19	Beige Floor Tile	White	Good		100% Vinyl Aggregate
			Miscellaneous				

Jamie Marshall	 Jamie Marshall, B.S., Industrial Hygiene Associate	May 13, 2011
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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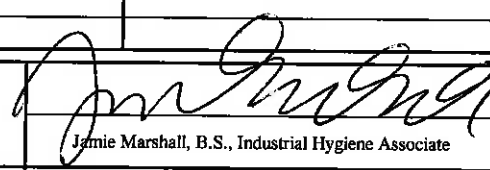
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Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		4% ASBESTOS DETECTED	
			COLOR	CONDITION	Chrysotile	Tar
0040-050311-PLM-31	May 3, 2011	Black Mastic	Black	Good	4%	96%
		Room 19				
			TYPE	Miscellaneous		
			NOTE			
0040-050311-PLM-32	May 3, 2011	Beige Floor Tile	White	Good		100%
		Room 10				
			TYPE	Miscellaneous		
			NOTE			
0040-050311-PLM-33	May 3, 2011	Black Mastic	Black	Good	4%	96%
		Room 10				
			TYPE	Miscellaneous		
			NOTE			
0040-050311-PLM-34	May 3, 2011	Beige Floor Tile	White	Good		100%
		Room 11				
			TYPE	Miscellaneous		
			NOTE			
0040-050311-PLM-35	May 3, 2011	Black Mastic	Black	Good	4%	96%
		Room 11				
			TYPE	Miscellaneous		
			NOTE			

Jamie Marshall		May 13, 2011
ANALYST NAME (PRINT)	Jamie Marshall, B.S., Industrial Hygiene Associate	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

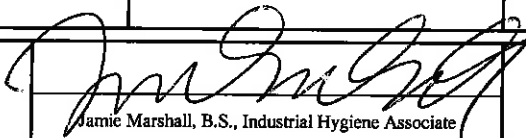
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Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED	
			COLOR	CONDITION		
0040-050311-PLM-36	May 3, 2011	Sculpted Ceiling Tile	Beige	Good	20%	Calcareous Material
		Room 8			30%	Cellulose
			Miscellaneous		30%	Fibrous Glass
					20%	Perlite
0040-050311-PLM-37	May 3, 2011	Sculpted Ceiling Tile	Beige	Good	20%	Calcareous Material
		Room 11			30%	Cellulose
			Miscellaneous		30%	Fibrous Glass
					20%	Perlite
0040-050311-PLM-38	May 3, 2011	Sculpted Ceiling Tile	Beige	Good	20%	Calcareous Material
		Room 11			30%	Cellulose
			Miscellaneous		30%	Fibrous Glass
					20%	Perlite
0040-050311-PLM-39	May 3, 2011	White Ceiling Tile	White	Good	100%	Foam
		Room 8				
			Miscellaneous			
0040-050311-PLM-40	May 3, 2011	White Ceiling Tile	White	Good	100%	Foam
		Room 11				
			Miscellaneous			

Jamie Marshall	 Jamie Marshall, B.S., Industrial Hygiene Associate	May 13, 2011
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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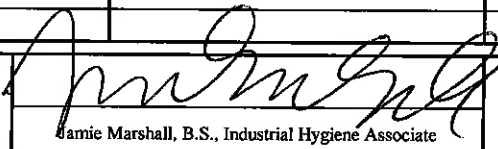
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 Oklahoma City, OK 73159
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marshenv@swbell.net

PROJECT LOCATION		INVOICE TO		REPORT TO	
Project Identification	0053-AB-050311	Client	State of Oklahoma Department of Central Services Construction & Properties Division	Client	State of Oklahoma Department of Environmental Quality Land Protection Division
Project	Guthrie Armory Asbestos Inspection	Attention	Cindy Melton	Attention	Dustin Davidson
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Phone	405-282-0488	Fax	405-522-0051	Fax	
Cell		Other		Other	
email	mmueller@cityofguthrie.com	email	cindy_melton@dcs.state.ok.us	email	dustin.davidson@deq.ok.gov

LAB LOG NUMBER	DATE OF SAMPLING	SAMPLE DESCRIPTION/LOCATION	SAMPLE COMPOSITION		NO ASBESTOS DETECTED		
			COLOR	CONDITION			
0040-050311-PLM-41	May 3, 2011	White Ceiling Tile	White	Good		100% Foam	
		Room 11	Miscellaneous				

Jamie Marshall	 Jamie Marshall, B.S., Industrial Hygiene Associate	May 13, 2011
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
--	---

FILE: S500160

Oklahoma Department of Labor



Charles 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-MP130246**.

Lloyd L. Fields

LLOYD L. FIELDS
Commissioner of Labor

July 14, 2010

Place of Issuance

EXPIRES: June 30, 2011

FEE: \$25.00

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 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. **OK158090**.

Lloyd L. Fields

LLOYD L. FIELDS
Commissioner of Labor

June 03, 2010

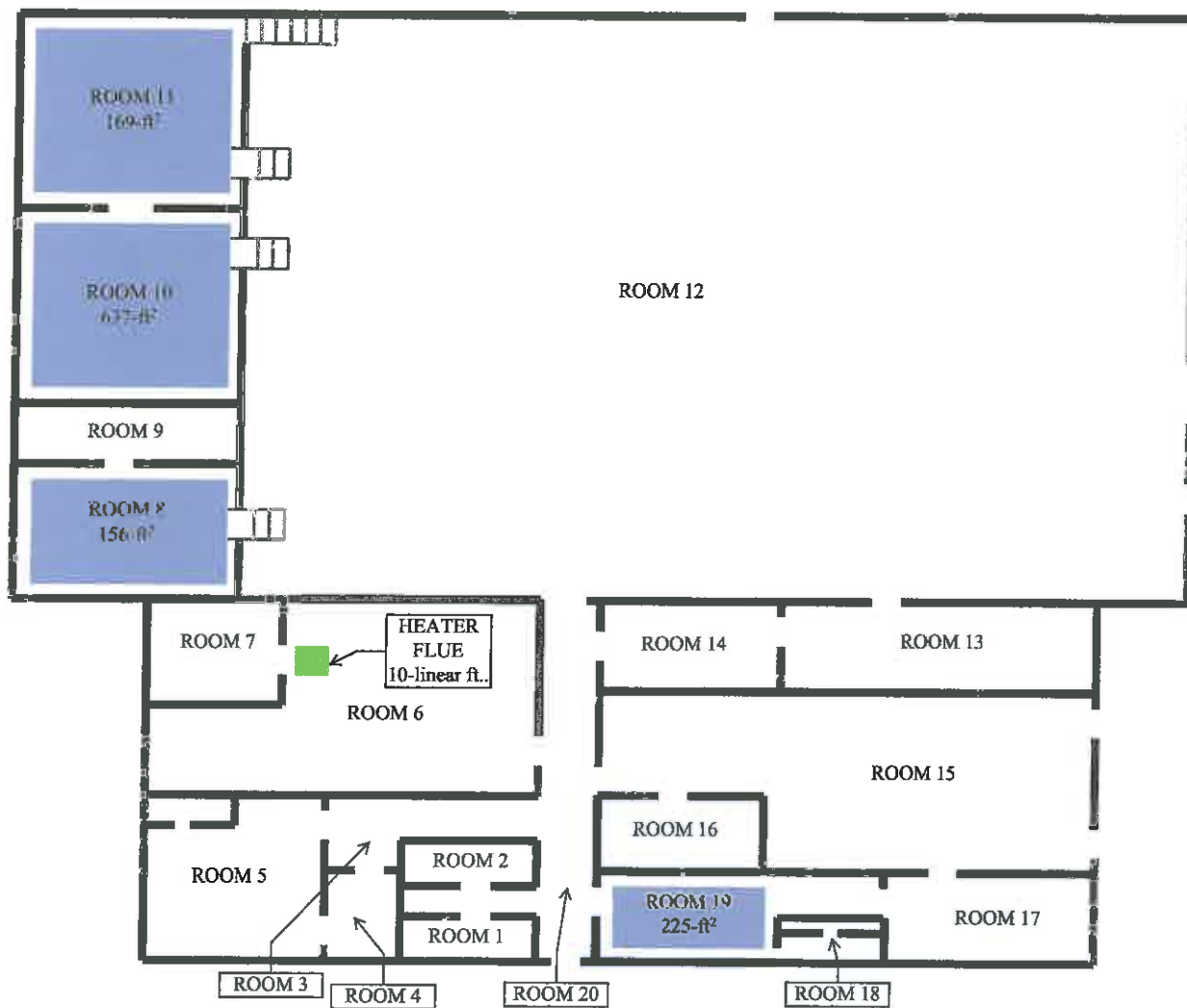
Date of Issuance

EXPIRES: June 03, 2011

GUTHRIE ARMORY

ASBESTOS CONTAINING
FLOOR-TILE MASTIC

ASBESTOS CONTAINING
HEATER FLUE





GUTHRIE ARMORY

DCS Contract Number: ID11070-5



05-03-11

*Lead-Based Paint Inspection &
Settled-Dust Sampling*

Prepared For:

Oklahoma Department of Environmental Quality

Land Protection Division

707 North Robinson

Oklahoma City, Oklahoma 73102

Prepared By:

Marshall Environmental Management, Inc.

1601 Southwest 89th Street, Suite A-100

Oklahoma City, Oklahoma 73159

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CERTIFICATION

This is to certify that, Marshall Environmental Management, Inc. was contracted by the State of Oklahoma, Department of Central Services to conduct a Lead-Based Paint Inspection in addition to collecting samples of settled dust within the Guthrie Armory located at 720 East Logan Avenue, Guthrie, Oklahoma for the State of Oklahoma Department of Environmental Quality, Land Protection Division. All services performed on May 3, 2011 were conducted by a Certified, Oklahoma Department of Environmental Quality, Lead-Based Paint Inspector/Risk Assessor Jacob Jones, representative of Marshall Environmental Management, Inc., under the direction of Dr. Charles L. Marshall Certified Industrial Hygienist and President of Marshall Environmental Management, Inc. The analytical results associated with this Lead-Based Paint Inspection and settled dust sampling are believed to accurately, reflect the concentrations of lead in paint and settled dust that were present at the time this Inspection was accomplished.

OWNER INFORMATION

City of Guthrie

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR

Jacob Jones, B.S., Industrial Hygiene Associate
ODEQ Certification Number: OKRASR13457

Report Date

CERTIFIED LEAD-BASED PAINT FIRM

Marshall Environmental Management, Inc.
1601 Southwest 89th Street, Suite A-100
Oklahoma City, Oklahoma 73159
ODEQ Certification Number: OKFIRM11160

X-RAY FLUORESCENCE ANALYZER

Analyzer Make: Niton XLp Spectrum Analyzer
Analyzer Model: #XLp 300A
Analyzer Serial Number: 12585
Source Date: November 11, 2006

GUTHRIE ARMORY

LEAD-BASED PAINT INSPECTION & SETTLED DUST SAMPLING

EXECUTIVE SUMMARY

On May 3, 2011, Marshall Environmental Management, Inc. (MEM) performed a Lead-Based Paint (LBP) Inspection in addition to collecting samples of settled dust within the Guthrie Armory located at 720 East Logan Avenue in Guthrie, Oklahoma. This Inspection and sampling event were accomplished as part of the Oklahoma Department of Environmental Quality (ODEQ), Land Protection Division (LPD) Site Cleanup Assistance Program and Armory Cleanup Program with the purpose of establishing the presence of LBP and lead-laden dust so, if necessary, a strategy may be prepared for remediation and/or abatement activities.

The analytical data resulting from the surfaces that were analyzed and the samples that were collected during this Lead-Based Paint Inspection and settled dust sampling event did identify lead-based paint and lead-laden dust on various surfaces throughout the Guthrie Armory. The remainder of this Report is comprised of the Sampling Methodology, Scope of Service, specific Analytical Findings and sampling locations, the Disclaimer and Standard of Care, information regarding LBP and the obligation to disclose the results of this LBP Inspection.

SAMPLING METHODOLOGY

This LBP Inspection and Settled Dust Sampling Event were conducted in accordance with the United States Department of Housing and Urban Development (HUD) guidelines, "*Guidelines for the Evaluation of Lead-Based Paint Hazards in Housing*," in addition to the requirements set forth by the Environmental Protection Agency (EPA), "*Requirements for Lead-based Paint Activities in Target Housing and Child-occupied Facilities*," 40 Code of Federal Regulations (CFR) Part 745.

SCOPE OF SERVICE

LEAD-BASED PAINT

All painted surfaces within the Armory were representatively sampled and analyzed for lead content excluding non-fixed and factory painted items utilizing an X-Ray Fluorescence (XRF), direct reading, data logging instrument. The street facing side of the Armory was labeled as Side A and going in a clockwise direction, the remaining sides were categorized as Side B, Side C and Side D respectively. The corresponding analytical data, including the start and stop times and calibration checks, and the floor plan diagram that illustrates room equivalents and positive LBP sampling locations are provided with the Appendix to this Report.

LEAD-LADEN DUST

Settled dust collected from randomly selected floor surfaces throughout the Armory were sampled and analyzed for lead content. The settled dust is collected by placing a template of a known dimension firmly against the selected surface; 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 resulting from the analysis of the surface samples coincides with the sampling locations indicated on the floor plan diagram attached with the Appendix to this Report.

ANALYTICAL FINDINGS

LEAD-BASED PAINT

According to HUD/EPA "Lead-Based Paint" is characterized as paint that contains concentrations of lead greater than or equal to 1-milligram per square centimeter ($\geq 1 \text{ mg/cm}^2$). The following tables list and categorize the miscellaneous painted surfaces and the doors and doorjamb in which the lead concentrations exceeded 1-mg/cm^2 thus characterizing the paint coating these surfaces as lead-based. All windows throughout the Armory were factory finished and therefore not tested. The analytical data and the floor plan diagrams, that illustrate the room equivalents and the LBP surfaces, are attached in the Appendix to this Report.

TABLE 1: LEAD-BASE PAINTED MISCELLANEOUS SURFACES

LOCATION	SIDE	COMPONENT	SUBSTRATE	COLOR
EXTERIOR	A	WINDOWSILL	CONCRETE	BLUE
EXTERIOR	A	WINDOWSILL	CONCRETE	BLUE
EXTERIOR	A	NARROW SLOT	CONCRETE	BEIGE
EXTERIOR	B	ROOF DRAIN	METAL	GRAY
EXTERIOR	B	WINDOWSILL	CONCRETE	BLUE
EXTERIOR	B	ROOF DRAIN	METAL	GRAY
EXTERIOR	B	IFR VENT	METAL	BEIGE
EXTERIOR	C	ROOF DRAIN	METAL	GRAY
EXTERIOR	D	OVERHEAD DOOR FRAME #1	METAL	WHITE
EXTERIOR	D	OVERHEAD DOOR FRAME #2	METAL	WHITE
EXTERIOR	D	OVERHEAD DOOR FRAME #3	METAL	BEIGE
EXTERIOR	D	WINDOWSILL	CONCRETE	WHITE
EXTERIOR	C	ROOF DRAIN	METAL	GRAY
EXTERIOR	A	WINDOW LINTEL	METAL	BEIGE
EXTERIOR	A	WINDOW LINTEL	METAL	BEIGE
ROOM 6	B	WINDOW GUARD	METAL	WHITE
ROOM 12	A	STAIR RAIL	METAL	RED
ROOM 12	C	STAIR RAIL	METAL	RED
ROOM 18	A	WINDOWSILL	CONCRETE	BROWN
ROOM 18	A	WINDOW GUARD	METAL	WHITE
ROOM 19	A	WINDOWSILL #1	WOOD	GREEN
ROOM 19	A	WINDOWSILL #2	WOOD	GREEN

TABLE II: DOORS AND DOORJAMBS

DOOR NUMBER	DOOR RESULT	DOORJAMB RESULT	DIMENSIONS
1	NO PAINT	FACTORY FINISH	—
2	NO PAINT	FACTORY FINISH	—
3	NO PAINT	FACTORY FINISH	—
4	NO PAINT	FACTORY FINISH	—
5	NO PAINT	FACTORY FINISH	—
6	NO PAINT	FACTORY FINISH	—
7	POSITIVE	POSITIVE	3x7
8	POSITIVE	POSITIVE	4x7
9	POSITIVE	POSITIVE	3x7
10	NO PAINT	POSITIVE	3x7
11	POSITIVE	POSITIVE	3x7
N/A	N/A OVERHEAD DOOR	N/A OVERHEAD DOOR FRAME	—
N/A	N/A OVERHEAD DOOR	N/A OVERHEAD DOOR FRAME	—
14	POSITIVE	POSITIVE	3x7
15	POSITIVE	POSITIVE	3x7
16	POSITIVE	POSITIVE	6x7
17	NEGATIVE	POSITIVE	3x7
18	NO DOOR	POSITIVE	3x7
19	NEGATIVE	POSITIVE	3x7
20	NEGATIVE	POSITIVE	3x7
21	POSITIVE	NEGATIVE	3x7
22	POSITIVE	POSITIVE	3x7
23	POSITIVE	POSITIVE	3x7
24	NEGATIVE	NEGATIVE	—
25	POSITIVE	POSITIVE	3x7
26	NO DOOR	POSITIVE	3x7
27	POSITIVE	POSITIVE	3x7
28	NEGATIVE	NEGATIVE	—
29	NEGATIVE	NEGATIVE	—
30	NO DOOR	NEGATIVE	—
31	NO DOOR	NO PAINT	—

LEAD-LADEN DUST

In accordance with HUD/EPA, settled dust containing concentrations of lead equal to or greater than 40-micrograms per square foot (40- $\mu\text{g}/\text{ft}^2$) represent lead contamination; this action level applies to all surfaces within the Armory excluding the Indoor Firing Range (IFR). According to the Departments of the Army National Guard (ARNG) and the Air Force National Guard (ANG) Bureau guidelines, "Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges", lead concentrations within an IFR equal to or greater than 200- $\mu\text{g}/\text{ft}^2$ represent lead contamination. As such, the table below reflects the concentrations of lead in settled dust that were established throughout the Armory, the "Bolded" data represents lead concentrations which exceeded the respective clearance levels.

TABLE III: SURFACE WIPE ANALYSIS

SAMPLE ID	LOCATION	CONCENTRATION	CLEARANCE LEVEL
0052-1	ROOM 1	21.5	40- $\mu\text{g}/\text{ft}^2$
0052-2	ROOM 2	28.1	40- $\mu\text{g}/\text{ft}^2$
0052-3	ROOM 3	35.3	40- $\mu\text{g}/\text{ft}^2$
0052-4	ROOM 4	<21.3	40- $\mu\text{g}/\text{ft}^2$
0052-5	ROOM 5	<21.3	40- $\mu\text{g}/\text{ft}^2$
0052-6	ROOM 6	<21.3	40- $\mu\text{g}/\text{ft}^2$
0052-7	ROOM 7	74.1	40- $\mu\text{g}/\text{ft}^2$
0052-8	ROOM 8	<21.3	40- $\mu\text{g}/\text{ft}^2$
0052-9	ROOM 9	93.2	40- $\mu\text{g}/\text{ft}^2$
0052-10	ROOM 10	44.4	40- $\mu\text{g}/\text{ft}^2$
0052-11	ROOM 11	76.9	40- $\mu\text{g}/\text{ft}^2$
0052-12	ROOM 12	201	40- $\mu\text{g}/\text{ft}^2$
0052-12-SE	ROOM 12 SE	78.6	40- $\mu\text{g}/\text{ft}^2$
0052-12-C	ROOM 12 CENTER	51.9	40- $\mu\text{g}/\text{ft}^2$
0052-12-NW	ROOM 12 NW	71.9	40- $\mu\text{g}/\text{ft}^2$
0052-13	ROOM 13	104	40- $\mu\text{g}/\text{ft}^2$
0052-14	ROOM 14	163	40- $\mu\text{g}/\text{ft}^2$
0052-15	ROOM 15	229	40- $\mu\text{g}/\text{ft}^2$
0052-16	ROOM 16	496	40- $\mu\text{g}/\text{ft}^2$
0052-17	ROOM 17	75.7	40- $\mu\text{g}/\text{ft}^2$
0052-18	ROOM 18	109	40- $\mu\text{g}/\text{ft}^2$
0052-19	ROOM 19	<21.3	40- $\mu\text{g}/\text{ft}^2$
0052-20	ROOM 20	24	40- $\mu\text{g}/\text{ft}^2$
0052-IFRE	IFR EAST	2,370	200- $\mu\text{g}/\text{ft}^2$
0052-IFR-C	IFR CENTER	1,010	200- $\mu\text{g}/\text{ft}^2$
0052-IFR-W	IFR WEST	12,200	200- $\mu\text{g}/\text{ft}^2$

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 within the Guthrie Armory.

DISCLAIMER AND STANDARD OF CARE

The Guthrie Armory is a one-story structure comprised of a rock façade and a flat roof that was constructed on a concrete slab circa 1938. Although the paint on various surfaces does 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. For any renovation that may disturb more than 2-square feet (2-ft²) of painted surface in a facility built before 1978 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." 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 HUD/EPA protocols referenced in the Certification portion of this Report. The analytical results associated with this LBP Inspection are only applicable on the date(s) indicated and future activities may alter the results. At the time these services were completed, no deviations from the Scope of Service took place.

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 HUD/EPA brochures, question and answer booklets, regulations, mentioned in this Report, and other information regarding LBP disclosure.

APPENDIX

XRF ANALYTICAL DATA

(CALIBRATION CHECKS & START & STOP TIMES)

SURFACE WIPES CHAIN OF CUSTODY & ANALYTICAL DATA

FLOOR PLAN DIAGRAMS

LBP SURFACES

DOORS & DOORJAMBS

SURFACE WIPES

CERTIFICATIONS

DIGITAL PHOTOGRAPHS

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GUTHRIE ARMORY
720 EAST LOGAN AVENUE
GUTHRIE, OK 73044

Index	Time	Units	Component	Substrate	Side	Color	Results	Depth Index	Action Level	Pbk
2	2011-05-03 11:58	mg / cm ^2			CALIBRATE		Positive	1.06	1.10 ± 0.10	< LOD : 0.61
3	2011-05-03 11:58	mg / cm ^2			CALIBRATE		Negative	1.00	0.90 ± 0.10	< LOD : 0.60
4	2011-05-03 11:58	mg / cm ^2			CALIBRATE		Positive	1.05	1.10 ± 0.10	< LOD : 0.60
5	2011-05-03 11:59	mg / cm ^2	WALL	CONCRETE	ROOM 7A	WHITE	Negative	1.00	< LOD : 0.03	< LOD : 1.41
6	2011-05-03 12:00	mg / cm ^2	WALL	CONCRETE	ROOM 7B	WHITE	Negative	1.00	< LOD : 0.03	< LOD : 1.43
7	2011-05-03 12:00	mg / cm ^2	WALL	CONCRETE	ROOM 7C	WHITE	Negative	1.00	< LOD : 0.03	< LOD : 1.50
8	2011-05-03 12:00	mg / cm ^2	WALL	CONCRETE	ROOM 7C	WHITE	Negative	1.96	< LOD : 0.04	< LOD : 1.40
9	2011-05-03 12:00	mg / cm ^2	CEILING	CONCRETE	ROOM 7C	WHITE	Negative	1.70	< LOD : 0.03	< LOD : 1.35
11	2011-05-03 12:01	mg / cm ^2	DOOR JAMB DUP	METAL	7	BEIGE	Negative	1.64	< LOD : 0.50	< LOD : 3.57
14	2011-05-03 12:08	mg / cm ^2	DOOR JAMB	COF-CRETE	ROOM 16A	RED	Negative	1.61	0.10 ± 0.06	< LOD : 1.20
16	2011-05-03 12:08	mg / cm ^2	DOOR JAMB	CONCRETE	ROOM 16A	WHITE	Negative	1.53	0.20 ± 0.04	1.30 ± 0.40
17	2011-05-03 12:09	mg / cm ^2	DOOR JAMB	CONCRETE	ROOM 16B	WHITE	Negative	1.07	0.08 ± 0.03	1.20 ± 0.50
18	2011-05-03 12:09	mg / cm ^2	FLOOR	CONCRETE	ROOM 16B	RED	Negative	1.24	< LOD : 0.05	< LOD : 1.50
19	2011-05-03 12:30	mg / cm ^2	DOOR DUP	METAL	29	BLUE	Negative	1.00	< LOD : 0.03	< LOD : 3.08
20	2011-05-03 12:31	mg / cm ^2	DOOR FRAME	METAL	A	BLUE	Negative	1.00	< LOD : 0.03	< LOD : 3.15
21	2011-05-03 12:31	mg / cm ^2	DOOR FRAME	WOOD	A	BLUE	Negative	1.00	< LOD : 0.03	< LOD : 2.06
22	2011-05-03 12:39	mg / cm ^2	BENCH	CONCRETE	A	BLUE	Negative	2.23	< LOD : 0.03	< LOD : 1.35
23	2011-05-03 12:39	mg / cm ^2	WINDOW SILL	CONCRETE	A	BLUE	Positive	1.99	2.30 ± 1.30	< LOD : 4.80
25	2011-05-03 12:42	mg / cm ^2	WINDOW SILL #2	CONCRETE	A	BLUE	Positive	1.75	1.80 ± 0.60	1.80 ± 0.60
26	2011-05-03 12:44	mg / cm ^2	SLOT	CONCRETE	A	BEIGE	Positive	1.33	1.40 ± 0.30	2.20 ± 1.10
27	2011-05-03 12:45	mg / cm ^2	ROOF DRAIN	METAL	B	GREY	Positive	2.20	3.50 ± 1.80	< LOD : 6.30
28	2011-05-03 12:47	mg / cm ^2	WINDOW SILL #1	CONCRETE	B	BLUE	Positive	1.26	1.60 ± 0.50	1.60 ± 0.50
29	2011-05-03 12:48	mg / cm ^2	ROOF DRAIN #2	METAL	B	GREY	Positive	6.60	< LOD : 4.50	< LOD : 6.00
30	2011-05-03 12:49	mg / cm ^2	PIPE	METAL	B	WHITE	Negative	1.00	< LOD : 0.08	< LOD : 3.74
32	2011-05-03 12:50	mg / cm ^2	SLOT	CONCRETE	B	BEIGE	Negative	1.05	< LOD : 0.03	1.00 ± 0.60
33	2011-05-03 12:52	mg / cm ^2	VENT	METAL	B	WHITE	Negative	1.00	< LOD : 0.07	< LOD : 3.07
34	2011-05-03 12:52	mg / cm ^2	IFR VENT	METAL	B	BEIGE	Positive	4.38	2.30 ± 1.00	3.10 ± 1.60
35	2011-05-03 12:54	mg / cm ^2	ROOF DRAIN	METAL	C	GREY	Positive	5.32	8.10 ± 4.60	8.10 ± 4.60
36	2011-05-03 12:55	mg / cm ^2	WINDOW SILL #3	CONCRETE	C	BEIGE	Negative	1.44	< LOD : 0.06	< LOD : 1.35
37	2011-05-03 12:58	mg / cm ^2	FLAG POLE	METAL	A	SILVER	Negative	1.16	< LOD : 0.21	< LOD : 3.78
38	2011-05-03 12:58	mg / cm ^2	FLAG POLE	METAL	A	SILVER	Negative	2.32	< LOD : 0.42	< LOD : 3.93
39	2011-05-03 13:00	mg / cm ^2	OVERHEAD DOOR FRAME #1	METAL	D	WHITE	Positive	4.90	2.70 ± 1.40	< LOD : 4.20
40	2011-05-03 13:00	mg / cm ^2	OVERHEAD DOOR FRAME #2	METAL	D	WHITE	Positive	6.46	< LOD : 3.75	< LOD : 5.10
41	2011-05-03 13:02	mg / cm ^2	OVERHEAD DOOR FRAME #3	METAL	D	BEIGE	Positive	8.66	2.80 ± 1.20	2.80 ± 1.20
42	2011-05-03 13:03	mg / cm ^2	WINDOW SILL 4	CONCRETE	D	WHITE	Positive	2.73	1.60 ± 0.60	1.60 ± 0.60
43	2011-05-03 13:05	mg / cm ^2	DOOR DUP	METAL	17	GREY	Negative	2.45	< LOD : 0.15	< LOD : 3.00
44	2011-05-03 13:05	mg / cm ^2	DOOR JAMB DUP	METAL	17	GREY	Negative	1.00	< LOD : 0.03	< LOD : 3.60
45	2011-05-03 13:05	mg / cm ^2	DOOR JAMB DUP	METAL	17	WHITE	Positive	1.58	2.70 ± 1.30	< LOD : 4.80
46	2011-05-03 13:07	mg / cm ^2	WINDOW SILL #5	METAL	C	BEIGE	Negative	3.49	< LOD : 0.08	1.00 ± 0.60
47	2011-05-03 13:08	mg / cm ^2	ROOF DRAIN 2	METAL	C	GREY	Positive	10.00	8.50 ± 4.50	8.50 ± 4.50

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Index	Date	Units	Component	Substrate	Side	Color	Results	Depth Index	Action Level	PbK
48	2011-05-03 13:29	mg / cm ²	LENTEL #1	METAL	A	BEIGE	Positive	3.78	1.00	< LOD : 3.00
49	2011-05-03 13:30	mg / cm ²	LENTEL #5	METAL	A	BEIGE	Positive	3.06	1.00	< LOD : 3.75
50	2011-05-03 13:35	mg / cm ²	WALL	DRYWALL	ROOM 2A	BEIGE	Negative	1.00	1.00	< LOD : 1.78
51	2011-05-03 13:35	mg / cm ²	WALL	DRYWALL	ROOM 2B	BEIGE	Negative	1.00	1.00	< LOD : 2.14
52	2011-05-03 13:35	mg / cm ²	WALL	DRYWALL	ROOM 2C	BEIGE	Negative	1.00	1.00	< LOD : 2.20
53	2011-05-03 13:36	mg / cm ²	WALL	DRYWALL	ROOM 2D	BEIGE	Negative	1.00	1.00	< LOD : 1.80
54	2011-05-03 13:47	mg / cm ²	WALL	DRYWALL	ROOM 3 A	BEIGE	Negative	1.51	1.00	< LOD : 2.26
55	2011-05-03 13:47	mg / cm ²	WALL	DRYWALL	ROOM 3 B	BEIGE	Negative	1.00	1.00	< LOD : 2.13
56	2011-05-03 13:47	mg / cm ²	WALL	DRYWALL	ROOM 3 C	BEIGE	Negative	1.00	1.00	< LOD : 2.06
57	2011-05-03 13:48	mg / cm ²	WALL	DRYWALL	ROOM 3 D	BEIGE	Negative	2.40	1.00	< LOD : 1.78
58	2011-05-03 13:48	mg / cm ²	WALL	DRYWALL	ROOM 4 A	BEIGE	Negative	1.20	1.00	< LOD : 1.97
59	2011-05-03 13:48	mg / cm ²	WALL	DRYWALL	ROOM 4 B	BEIGE	Negative	1.00	1.00	< LOD : 2.12
60	2011-05-03 13:49	mg / cm ²	WALL	DRYWALL	ROOM 4 C	BEIGE	Negative	3.73	1.00	< LOD : 1.93
61	2011-05-03 13:49	mg / cm ²	WALL	DRYWALL	ROOM 4 D	BEIGE	Negative	1.00	1.00	< LOD : 2.13
62	2011-05-03 13:50	mg / cm ²	WALL	DRYWALL	ROOM 5 A	BEIGE	Negative	1.00	1.00	< LOD : 2.00
63	2011-05-03 13:50	mg / cm ²	WALL	DRYWALL	ROOM 5 B	BEIGE	Negative	4.99	1.00	< LOD : 1.57
64	2011-05-03 13:50	mg / cm ²	WALL	DRYWALL	ROOM 5 C	BEIGE	Negative	7.89	1.00	< LOD : 1.65
65	2011-05-03 13:50	mg / cm ²	WALL	DRYWALL	ROOM 5 D	BEIGE	Negative	1.00	1.00	< LOD : 1.95
66	2011-05-03 13:51	mg / cm ²	HVAC BOX	WOOD	ROOM 5 C	BEIGE	Negative	1.00	1.00	< LOD : 2.55
67	2011-05-03 13:51	mg / cm ²	HVAC BOX (DUP)	WOOD	ROOM 5 C	BEIGE	Negative	1.36	1.00	< LOD : 2.70
68	2011-05-03 13:57	mg / cm ²	WALL	CONCRETE	ROOM 6 A	BEIGE	Negative	2.88	1.00	< LOD : 1.35
69	2011-05-03 13:57	mg / cm ²	WALL	CONCRETE	ROOM 6 B	BEIGE	Negative	3.62	1.00	< LOD : 0.07
70	2011-05-03 13:58	mg / cm ²	WINDOW GUARD	METAL	ROOM 6 B	WHITE	Positive	2.97	1.00	< LOD : 5.55
71	2011-05-03 13:59	mg / cm ²	WINDOW SILL	CONCRETE	ROOM 6 B	WHITE	Negative	6.29	1.00	1.10 ± 0.30
72	2011-05-03 13:59	mg / cm ²	WINDOW SILL (DUP)	CONCRETE	ROOM 6 B	WHITE	Negative	4.01	1.00	1.00 ± 0.30
73	2011-05-03 14:00	mg / cm ²	PIPE	METAL	ROOM 6 B	BEIGE	Negative	1.61	1.00	LOD 3.47
74	2011-05-03 14:00	mg / cm ²	PIPE	METAL	ROOM 6 C	SILVER	Negative	1.00	1.00	< LOD : 1.20
75	2011-05-03 14:00	mg / cm ²	WALL	CONCRETE	ROOM 5 C	BEIGE	Negative	3.01	1.00	< LOD : 1.20
76	2011-05-03 14:01	mg / cm ²	WALL	CONCRETE	ROOM 6 D	RED	Negative	1.00	1.00	< LOD : 1.35
77	2011-05-03 14:01	mg / cm ²	PIPE	METAL	ROOM 6 D	BEIGE	Negative	3.21	1.00	< LOD : 2.33
78	2011-05-03 14:02	mg / cm ²	FLOOR	CONCRETE	ROOM 6 D	RED	Negative	1.22	1.00	< LOD : 1.35
79	2011-05-03 14:02	mg / cm ²	WALL	CONCRETE	ROOM 6 A	RED	Negative	1.47	1.00	< LOD : 1.20
80	2011-05-03 14:04	mg / cm ²	WALL	CONCRETE	ROOM 8 A	BEIGE	Negative	1.65	1.00	< LOD : 1.05
81	2011-05-03 14:04	mg / cm ²	WALL	CONCRETE	ROOM 8 B	BEIGE	Negative	1.46	1.00	< LOD : 1.05
82	2011-05-03 14:05	mg / cm ²	WINDOW SILL	CONCRETE	ROOM 8 B	BEIGE	Negative	2.26	1.00	< LOD : 1.05
83	2011-05-03 14:05	mg / cm ²	WALL	CONCRETE	ROOM 8 B	BEIGE	Negative	4.92	1.00	< LOD : 2.23
84	2011-05-03 14:06	mg / cm ²	WALL	CONCRETE	ROOM 8 C	BEIGE	Negative	1.15	1.00	< LOD : 1.05
85	2011-05-03 14:06	mg / cm ²	FLOOR	CONCRETE	ROOM 8 D	BEIGE	Negative	2.43	1.00	< LOD : 1.20
86	2011-05-03 14:07	mg / cm ²	CEILING	DRYWALL	ROOM 9	BEIGE	Negative	1.27	1.00	< LOD : 1.20
87	2011-05-03 14:08	mg / cm ²	WALL	CONCRETE	ROOM 10 A	BEIGE	Negative	1.00	1.00	< LOD : 1.20

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88	2011-05-03 14:08	mg / cm ²	WALL	CONCRETE	ROOM 10 B	BEIGE	Negative	1.00	1.00	<LOD: 2.40
89	2011-05-03 14:09	mg / cm ²	WALL	CONCRETE	ROOM 10 C	BEIGE	Negative	1.15	1.00	<LOD: 1.35
90	2011-05-03 14:09	mg / cm ²	WALL	CONCRETE	ROOM 10 D	BEIGE	Negative	1.18	1.00	<LOD: 1.35
91	2011-05-03 14:10	mg / cm ²	WALL	CONCRETE	ROOM 11 A	BROWN	Negative	3.22	1.00	<LOD: 1.35
92	2011-05-03 14:10	mg / cm ²	WALL	CONCRETE	ROOM 11 A	GREEN	Negative	1.56	1.00	<LOD: 1.20
93	2011-05-03 14:11	mg / cm ²	WALL	CONCRETE	ROOM 11 B	BLACK	Negative	1.00	1.00	1.10 ± 0.30
94	2011-05-03 14:11	mg / cm ²	WALL	CONCRETE	ROOM 11 C	BROWN	Negative	3.44	1.00	<LOD: 1.20
95	2011-05-03 14:12	mg / cm ²	WINDOW SILL	CONCRETE	ROOM 11 C	BROWN	Negative	4.35	1.00	<LOD: 1.35
98	2011-05-03 14:13	mg / cm ²	WALL	CONCRETE	ROOM 11 D	BROWN	Negative	2.19	1.00	1.10 ± 0.60
99	2011-05-03 14:14	mg / cm ²	WALL	CONCRETE	ROOM 12 A	RED	Negative	2.26	1.00	<LOD: 3.75
100	2011-05-03 14:15	mg / cm ²	STAIR RAIL	METAL	ROOM 12 A	RED	Positive	2.46	1.00	2.80 ± 1.60
101	2011-05-03 14:16	mg / cm ²	STAIR RAIL	METAL	ROOM 12 B	RED	Negative	8.99	1.00	<LOD: 1.34
102	2011-05-03 14:17	mg / cm ²	STAIR RAIL BASE	METAL	ROOM 12 B	YELLOW	Negative	1.00	1.00	<LOD: 2.85
103	2011-05-03 14:17	mg / cm ²	STAIR RAIL	METAL	ROOM 12 C	RED	Positive	3.80	1.00	<LOD: 5.55
107	2011-05-03 14:18	mg / cm ²	WALL	CONCRETE	ROOM 12 B	RED	Negative	1.18	1.00	<LOD: 1.20
108	2011-05-03 14:19	mg / cm ²	WALL	CONCRETE	ROOM 12 C	RED	Negative	1.53	1.00	<LOD: 1.20
109	2011-05-03 14:19	mg / cm ²	WALL	CONCRETE	ROOM 12 D	RED	Negative	1.00	1.00	<LOD: 1.20
110	2011-05-03 14:20	mg / cm ²	WINDOW SILL	CONCRETE	ROOM 12 D	WHITE	Negative	1.53	1.00	<LOD: 1.50
111	2011-05-03 14:20	mg / cm ²	WINDOW SILL	CONCRETE	ROOM 12 C	WHITE	Negative	2.30	1.00	<LOD: 1.35
112	2011-05-03 14:22	mg / cm ²	FLOOR	CONCRETE	ROOM 12	RED	Negative	1.00	1.00	<LOD: 1.48
113	2011-05-03 14:23	mg / cm ²	FLOOR	CONCRETE	ROOM 12	BLUE	Negative	1.31	1.00	<LOD: 1.35
114	2011-05-03 14:23	mg / cm ²	WALL	CONCRETE	ROOM 12 B	BEIGE	Negative	3.18	1.00	<LOD: 1.35
115	2011-05-03 14:23	mg / cm ²	WALL	CONCRETE	ROOM 12 B	RED	Negative	2.03	1.00	<LOD: 1.05
116	2011-05-03 14:25	mg / cm ²	WALL	CONCRETE	ROOM 12 B	YELLOW	Negative	1.04	1.00	<LOD: 1.05
117	2011-05-03 14:26	mg / cm ²	FLOOR	CONCRETE	ROOM 12	GREEN	Negative	1.36	1.00	<LOD: 1.49
118	2011-05-03 14:28	mg / cm ²	WALL	CONCRETE	ROOM 13 A	BEIGE	Negative	1.00	1.00	<LOD: 1.35
119	2011-05-03 14:28	mg / cm ²	WALL	CONCRETE	ROOM 13 B	BEIGE	Negative	1.47	1.00	<LOD: 1.35
120	2011-05-03 14:29	mg / cm ²	WALL	CONCRETE	ROOM 13 B	BLUE	Negative	1.64	1.00	<LOD: 0.90
121	2011-05-03 14:29	mg / cm ²	WALL	CONCRETE	ROOM 13 C	BEIGE	Negative	3.61	1.00	<LOD: 1.05
122	2011-05-03 14:29	mg / cm ²	WALL	CONCRETE	ROOM 13 D	BEIGE	Negative	1.00	1.00	<LOD: 2.40
123	2011-05-03 14:30	mg / cm ²	WINDOW SILL	CONCRETE	ROOM 13 D	RED	Negative	1.49	1.00	<LOD: 4.50
124	2011-05-03 14:30	mg / cm ²	WINDOW SILL	CONCRETE	ROOM 13 D	BEIGE	Negative	1.26	1.00	<LOD: 1.50
126	2011-05-03 14:31	mg / cm ²	WALL	CONCRETE	ROOM 15 A	BEIGE	Negative	1.00	1.00	1.10 ± 0.60
127	2011-05-03 14:32	mg / cm ²	WALL	CONCRETE	ROOM 15 A	BEIGE	Negative	1.00	1.00	<LOD: 1.05
128	2011-05-03 14:33	mg / cm ²	WALL	CONCRETE	ROOM 15 A	BEIGE	Negative	1.96	1.00	<LOD: 1.38
129	2011-05-03 14:33	mg / cm ²	PIPE	METAL	ROOM 15 A	RED	Negative	1.00	1.00	<LOD: 3.00
130	2011-05-03 14:34	mg / cm ²	WALL	CONCRETE	ROOM 15 A	BEIGE	Negative	1.00	1.00	<LOD: 3.82
131	2011-05-03 14:34	mg / cm ²	WALL	CONCRETE	ROOM 15 B	BEIGE	Negative	1.93	1.00	<LOD: 1.20
132	2011-05-03 14:35	mg / cm ²	WALL	CONCRETE	ROOM 15 C	BEIGE	Negative	1.79	1.00	<LOD: 1.05
133	2011-05-03 14:35	mg / cm ²	WALL	CONCRETE	ROOM 15 D	BEIGE	Negative	1.00	1.00	<LOD: 1.20
				CONCRETE	ROOM 15 D	RED	Negative	2.14	1.00	1.10 ± 0.50

Marshall Environmental Management, Inc.
1601 Southwest 89th Street, Suite A-100
Oklahoma City, OK 73159

GUTHRIE ARMORY
720 EAST LOGAN AVENUE
GUTHRIE, OK 73044

Index	Time	Units	Component	Substrate	Side	Color	Results	Depth Index	Action Level	PbC	PbK
134	2011-05-03 14:39	mg / cm ^2	WALL	CONCRETE	ROOM 18 A	BROWN	Negative	1.32	1.00	0.12 ± 0.05	<LOD : 1.20
135	2011-05-03 14:40	mg / cm ^2	WINDOW SILL	CONCRETE	ROOM 18 A	BROWN	Positive	4.43	1.00	<LOD : 6.45	<LOD : 6.45
136	2011-05-03 14:41	mg / cm ^2	WINDOW GUARD	METAL	ROOM 18 A	WHITE	Positive	1.28	1.00	2.40 ± 1.10	<LOD : 5.25
137	2011-05-03 14:41	mg / cm ^2	WINDOW GUARD (DUP)	METAL	ROOM 18 A	WHITE	Positive	1.45	1.00	3.10 ± 2.00	<LOD : 12.45
138	2011-05-03 14:42	mg / cm ^2	CONDUIT	METAL	ROOM 18 A	BROWN	Negative	1.49	1.00	<LOD : 0.40	<LOD : 3.63
139	2011-05-03 14:43	mg / cm ^2	WALL	CONCRETE	ROOM 18 C	BROWN	Negative	1.49	1.00	0.11 ± 0.05	<LOD : 1.35
140	2011-05-03 14:43	mg / cm ^2	DOOR JAMB	CONCRETE	18	BROWN	Positive	2.34	1.00	3.60 ± 1.90	<LOD : 5.25
141	2011-05-03 14:44	mg / cm ^2	DOOR FRAME	CONCRETE	ROOM 18 D	BEIGE	Negative	1.43	1.00	<LOD : 0.04	<LOD : 1.20
142	2011-05-03 14:45	mg / cm ^2	WALL	WOOD	ROOM 19 A	BEIGE	Negative	1.59	1.00	<LOD : 0.05	<LOD : 2.09
143	2011-05-03 14:46	mg / cm ^2	WINDOW SILL #1	WOOD	ROOM 19 A	GREEN	Positive	10.00	1.00	3.30 ± 2.20	3.30 ± 2.20
144	2011-05-03 14:47	mg / cm ^2	WINDOW SILL #2	WOOD	ROOM 19 A	GREEN	Positive	10.00	1.00	2.20 ± 0.80	2.20 ± 0.80
145	2011-05-03 14:48	mg / cm ^2	WINDOW SILL	WOOD	ROOM 17 A	RED	Negative	1.06	1.00	<LOD : 0.04	<LOD : 3.45
146	2011-05-03 14:49	mg / cm ^2	WALL	WOOD	ROOM 19 B	GREEN	Negative	1.00	1.00	<LOD : 0.03	<LOD : 1.35
147	2011-05-03 14:49	mg / cm ^2	WALL	WOOD	ROOM 19 B	BEIGE	Negative	1.00	1.00	<LOD : 0.03	<LOD : 2.55
148	2011-05-03 14:49	mg / cm ^2	WALL	WOOD	ROOM 19 C	BEIGE	Negative	1.00	1.00	<LOD : 0.03	<LOD : 2.23
149	2011-05-03 14:49	mg / cm ^2	WALL	WOOD	ROOM 19 C	GREEN	Negative	1.00	1.00	<LOD : 0.03	<LOD : 1.86
151	2011-05-03 14:49	mg / cm ^2	WALL	WOOD	ROOM 19 D	GREEN	Negative	1.00	1.00	<LOD : 0.03	<LOD : 2.00
152	2011-05-03 14:51	mg / cm ^2	WALL	WOOD	ROOM 20 A	BEIGE	Negative	1.00	1.00	<LOD : 0.04	<LOD : 2.08
153	2011-05-03 14:51	mg / cm ^2	WALL	WOOD	ROOM 20 B	BEIGE	Negative	1.56	1.00	<LOD : 0.05	<LOD : 1.71
154	2011-05-03 14:51	mg / cm ^2	WALL	WOOD	ROOM 20 B	BEIGE	Negative	1.15	1.00	<LOD : 0.05	<LOD : 2.15
155	2011-05-03 14:52	mg / cm ^2	WALL	WOOD	ROOM 20 C	WHITE	Negative	1.00	1.00	<LOD : 0.03	<LOD : 2.08
156	2011-05-03 14:52	mg / cm ^2	WALL	WOOD	ROOM 20 D	WHITE	Negative	1.00	1.00	<LOD : 0.03	<LOD : 2.15
157	2011-05-03 14:52	mg / cm ^2	WALL	WOOD	ROOM 20 D	WHITE	Negative	1.00	1.00	<LOD : 0.03	<LOD : 1.80
158	2011-05-03 14:53	mg / cm ^2	WALL	WOOD	ROOM 20 D	BEIGE	Negative	1.20	1.00	<LOD : 0.07	<LOD : 2.94
159	2011-05-03 15:02	mg / cm ^2	DOOR	WOOD	ROOM 20 D	BEIGE	Negative	1.00	1.00	<LOD : 0.04	<LOD : 2.07
160	2011-05-03 15:03	mg / cm ^2	DOOR JAMB	WOOD	7	BEIGE	Positive	4.66	1.00	3.80 ± 1.80	<LOD : 3.75
162	2011-05-03 15:04	mg / cm ^2	DOOR	METAL	7	BEIGE	Positive	2.40	1.00	<LOD : 4.65	<LOD : 11.25
163	2011-05-03 15:05	mg / cm ^2	DOOR JAMB	METAL	8	BROWN	Positive	1.95	1.00	2.60 ± 1.40	<LOD : 4.80
164	2011-05-03 15:06	mg / cm ^2	DOOR JAMB	METAL	8	BROWN	Positive	1.78	1.00	3.50 ± 1.30	<LOD : 5.40
165	2011-05-03 15:07	mg / cm ^2	DOOR	METAL	9	BLUE	Positive	3.23	1.00	4.50 ± 2.90	4.50 ± 2.90
166	2011-05-03 15:08	mg / cm ^2	DOOR JAMB	METAL	9	BLUE	Positive	2.59	1.00	3.20 ± 1.80	<LOD : 5.25
167	2011-05-03 15:10	mg / cm ^2	DOOR	METAL	10	BLUE	Positive	1.92	1.00	2.10 ± 0.90	2.10 ± 0.90
169	2011-05-03 15:10	mg / cm ^2	DOOR JAMB	WOOD	11	SILVER	Positive	1.22	1.00	2.40 ± 1.10	<LOD : 3.60
170	2011-05-03 15:12	mg / cm ^2	DOOR JAMB	METAL	11	YELLOW	Positive	2.33	1.00	2.20 ± 0.80	<LOD : 4.05
171	2011-05-03 15:12	mg / cm ^2	DOOR JAMB DUP	METAL	14	BLUE	Positive	1.77	1.00	1.60 ± 0.60	<LOD : 4.05
172	2011-05-03 15:13	mg / cm ^2	DOOR	METAL	14	BLUE	Positive	2.15	1.00	2.20 ± 0.80	<LOD : 4.05
173	2011-05-03 15:13	mg / cm ^2	DOOR DUP	WOOD	14	BLUE	Positive	1.70	1.00	3.90 ± 1.40	<LOD : 4.05
174	2011-05-03 15:15	mg / cm ^2	DOOR JAMB	WOOD	14	BLUE	Positive	2.00	1.00	<LOD : 3.90	<LOD : 8.10
175	2011-05-03 15:15	mg / cm ^2	DOOR JAMB	METAL	29	BROWN	Negative	1.00	1.00	<LOD : 0.28	<LOD : 3.80
176	2011-05-03 15:16	mg / cm ^2	DOOR	METAL	15	BEIGE	Positive	3.52	1.00	3.00 ± 1.30	<LOD : 3.75
176	2011-05-03 15:16	mg / cm ^2	DOOR	WOOD	15	BEIGE	Positive	2.03	1.00	1.70 ± 0.60	2.20 ± 1.40

Marshall Environmental Management, Inc.
1601 Southwest 89th Street, Suite A-100
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GUTHRIE ARMORY
720 EAST LOGAN AVENUE
GUTHRIE, OK 73044

Index	Time	Units	Component	Substrate	Side	Color	Results	Depth Index	Action Level	PbC	PbK
177	2011-05-03 15:17	mg / cm ²	DOOR	WOOD	16	BLUE	Negative	1.30	1.00	0.60 ± 0.30	< LOD : 1.95
178	2011-05-03 15:17	mg / cm ²	DOOR	WOOD	16	BLUE	Negative	1.61	1.00	< LOD 0.75	< LOD : 3.15
179	2011-05-03 15:17	mg / cm ²	DOOR	WOOD	16	BLUE	Positive	3.08	1.00	3.40 ± 2.20	< LOD : 3.90
180	2011-05-03 15:17	mg / cm ²	DOOR JAMB	METAL	16	BLUE	Positive	3.64	1.00	< LOD : 3.60	< LOD : 5.25
181	2011-05-03 15:17	mg / cm ²	DOOR JAMB DUP	METAL	16	BLUE	Positive	3.86	1.00	< LOD : 4.35	< LOD : 5.25
182	2011-05-03 15:20	mg / cm ²	DOOR JAMB	METAL	17	BEIGE	Positive	7.31	1.00	2.20 ± 1.20	< LOD : 2.70
183	2011-05-03 15:20	mg / cm ²	DOOR	METAL	17	GREY	Negative	1.06	1.00	< LOD : 0.03	< LOD : 2.38
184	2011-05-03 15:23	mg / cm ²	DOOR JAMB	METAL	19	BEIGE	Positive	7.63	1.00	< LOD : 3.00	< LOD : 4.20
185	2011-05-03 15:24	mg / cm ²	DOOR	METAL	19	GREY	Negative	7.45	1.00	< LOD : 0.19	< LOD : 2.25
186	2011-05-03 15:25	mg / cm ²	DOOR	METAL	20	WHITE	Negative	1.62	1.00	< LOD : 0.03	< LOD : 1.30
187	2011-05-03 15:25	mg / cm ²	DOOR JAMB	METAL	20	BEIGE	Positive	6.13	1.00	2.90 ± 1.70	< LOD : 4.05
188	2011-05-03 15:26	mg / cm ²	DOOR JAMB DUP	METAL	20	BEIGE	Positive	8.85	1.00	3.60 ± 2.20	3.60 ± 2.20
189	2011-05-03 15:28	mg / cm ²	DOOR JAMB	WOOD	21	GREY	Negative	1.66	1.00	< LOD : 0.17	< LOD : 2.40
190	2011-05-03 15:28	mg / cm ²	DOOR	WOOD	21	GREY	Positive	1.48	1.00	2.70 ± 1.30	< LOD : 3.75
192	2011-05-03 15:30	mg / cm ²	DOOR	WOOD	22	BEIGE	Positive	4.04	1.00	2.40 ± 1.20	2.90 ± 1.90
193	2011-05-03 15:31	mg / cm ²	DOOR JAMB	METAL	22	BEIGE	Positive	4.50	1.00	1.80 ± 0.50	2.10 ± 1.10
194	2011-05-03 15:36	mg / cm ²	DOOR JAMB	METAL	23	BEIGE	Positive	3.16	1.00	3.60 ± 2.30	< LOD : 4.95
195	2011-05-03 15:36	mg / cm ²	DOOR	WOOD	23	BROWN	Positive	3.32	1.00	6.20 ± 2.70	< LOD : 4.20
196	2011-05-03 15:37	mg / cm ²	DOOR	WOOD	24	WHITE	Negative	2.38	1.00	< LOD : 0.21	< LOD : 2.88
197	2011-05-03 15:38	mg / cm ²	DOOR JAMB	WOOD	24	WHITE	Negative	1.00	1.00	< LOD 0.13	< LOD : 3.75
198	2011-05-03 15:39	mg / cm ²	DOOR JAMB	METAL	25	BROWN	Positive	3.83	1.00	2.50 ± 1.20	< LOD : 3.75
199	2011-05-03 15:39	mg / cm ²	DOOR	WOOD	25	BROWN	Positive	4.83	1.00	3.80 ± 1.90	< LOD : 3.00
200	2011-05-03 15:40	mg / cm ²	DOOR JAMB	WOOD	26	BROWN	Positive	3.94	1.00	2.50 ± 1.40	< LOD : 4.50
201	2011-05-03 15:42	mg / cm ²	WALL	CONCRETE	ROOM 9 A	BROWN	Negative	1.49	1.00	< LOD 0.06	< LOD : 1.35
202	2011-05-03 15:42	mg / cm ²	WALL	CONCRETE	ROOM 9 A	BROWN	Negative	1.19	1.00	< LOD : 0.03	1.00 ± 0.60
203	2011-05-03 15:42	mg / cm ²	WALL	CONCRETE	ROOM 9 B	BROWN	Negative	1.29	1.00	< LOD 0.04	< LOD 1.05
204	2011-05-03 15:42	mg / cm ²	WALL	CONCRETE	ROOM 9 C	BROWN	Negative	1.00	1.00	< LOD : 0.03	< LOD : 1.20
206	2011-05-03 15:43	mg / cm ²	WALL	CONCRETE	ROOM 9 D	BROWN	Negative	1.44	1.00	< LOD 0.03	< LOD : 1.05
207	2011-05-03 15:43	mg / cm ²	FLOOR	CONCRETE	ROOM 9	GREEN	Negative	1.76	1.00	< LOD : 0.04	< LOD : 1.43
208	2011-05-03 15:45	mg / cm ²	DOOR	CONCRETE	ROOM 9	WHITE	Negative	3.32	1.00	< LOD 0.07	< LOD 2.40
209	2011-05-03 15:46	mg / cm ²	DOOR JAMB	METAL	28	WHITE	Negative	1.00	1.00	< LOD : 0.03	< LOD : 3.07
210	2011-05-03 15:46	mg / cm ²	DOOR JAMB	METAL	27	RED	Positive	1.90	1.00	3.10 ± 1.60	< LOD : 6.45
211	2011-05-03 15:47	mg / cm ²	DOOR	METAL	27	RED	Positive	2.18	1.00	3.60 ± 1.90	< LOD : 5.55
212	2011-05-03 15:48	mg / cm ²	DOOR	METAL	29	BEIGE	Negative	1.00	1.00	< LOD 0.03	< LOD 3.11
213	2011-05-03 15:48	mg / cm ²	DOOR	METAL	29	BEIGE	Negative	1.56	1.00	< LOD : 0.08	< LOD : 3.33
214	2011-05-03 16:13	mg / cm ²	DOOR JAMB DUP	METAL	29	BEIGE	Negative	1.09	1.00	1.10 ± 0.10	1.00 ± 0.40
215	2011-05-03 16:13	mg / cm ²	DOOR JAMB DUP	METAL	29	BEIGE	Positive	1.03	1.00	1.00 ± 0.10	1.00 ± 0.30
216	2011-05-03 16:13	mg / cm ²	DOOR JAMB DUP	METAL	29	BEIGE	Negative	1.00	1.00	0.90 ± 0.10	1.00 ± 0.50

Marshall Environmental Management, Inc. Chain Of Custody

Phone: (405) 616-0401
Fax: (405) 681-6753
marshenv@swbell.net

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194799

PROJECT INFORMATION			INVOICE TO			REPORT TO		
Project Id.	0052-LBP-050311		Client/Company			Client/Company		
Project Name			Attention			Attention		
Project Address			Invoice To Address			Address		
Site Contact			Phone Number			Phone Number		
Phone Number			Fax Number			Fax Number		
Mobile Number			Mobile Number			Mobile Number		
email			E-mail Address			E-mail Address		

Lab Id.	Sample Date	Field Id.	Sample Location (lobby, bedroom, etc.)	Specific Sample Area	Sample Matrix	Sample Media	Sample Time		Volume/ Area	Unit	Analysis/ Parameters
							On	Off			
0052	5/3/2011	11	Room 11	NA	Dust	Wipe	On	NA	108	in ²	Total Pb
0052	5/3/2011	12	Room 12	NA	Dust	Wipe	On	NA	108	in ²	Total Pb
0052	5/3/2011	12-SE	Room 12 Southeast	NA	Dust	Wipe	On	NA	1	ft ²	Total Pb
0052	5/3/2011	12-C	Room 12 Center	NA	Dust	Wipe	On	NA	1	ft ²	Total Pb
0052	5/3/2011	12-NW	Room 12 Northwest	NA	Dust	Wipe	On	NA	1	ft ²	Total Pb
0052	5/3/2011	13	Room 13	NA	Dust	Wipe	On	NA	108	in ²	Total Pb
0052	5/3/2011	14	Room 14	NA	Dust	Wipe	On	NA	108	in ²	Total Pb
0052	5/3/2011	15	Room 15	NA	Dust	Wipe	On	NA	108	in ²	Total Pb
0052	5/3/2011	16	Room 16	NA	Dust	Wipe	On	NA	108	in ²	Total Pb
0052	5/3/2011	17	Room 17	NA	Dust	Wipe	On	NA	108	in ²	Total Pb

Collected By	Jacob Jones	Date	5/8/2011	Relinquished	Jacob Jones
Received By	<i>Michelle Van Eck</i>	Time	14:50	By	
Turn-Around Time		Date		Relinquished	
Standard	5-7 Business Days	Time		By	
Rush	Next Day	Date			
Immediate	Same Day	Time			
Condition Upon Receipt		Method of Shipment			
Sample Notes		Please Email to: dustin.davidson@deq.ok.gov			
Matrix		Media			
Air		Micro-Vacuum			
Aqueous		Mold Plate			
Bulk		Spore Trap			
Sludge		Swab			
Soil		Tape-Lift			
Solid		Page			
		2 of 3			

Marshall Environmental Management, Inc. Chain Of Custody

Phones: (405) 616-0401
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194799

PROJECT INFORMATION			INVOICE TO			REPORT TO			
Project Id.	0052-LBI-450311	Client/Company	Marshall Environmental Management, Inc.			Client/Company			
Project Name		Attention Title				Attention Title			
Project Address		Invoice To Address				Address			
Site Contact		Phone Number				Phone Number			
Phone Number		Fax Number				Fax Number			
Mobile Number		Mobile Number				Mobile Number			
email		E-mail Address				E-mail Address			

Lab Id.	Sample Date	Field Id.	Sample Location (lobby, bedroom, etc.)	Specific Sample Area	Sample Matrix	Sample Media	Sample Time		Volume/Area	Unit	Analysis/Parameters
							On	Off			
0052	5/3/2011	18	Room 18	NA	Dust	Wipe	NA	NA	108	in ²	Total Pb
0052	5/3/2011	19	Room 19	NA	Dust	Wipe	NA	NA	108	in ²	Total Pb
0052	5/3/2011	20	Room 20	NA	Dust	Wipe	NA	NA	108	in ²	Total Pb
0052	5/3/2011	IFR-E	Indoor Firing Range - East	NA	Dust	Wipe	NA	NA	1	ft ²	Total Pb
0052	5/3/2011	IFR-C	Indoor Firing Range - Center	NA	Dust	Wipe	NA	NA	1	ft ²	Total Pb
0052	5/3/2011	IFR-W	Indoor Firing Range - West	NA	Dust	Wipe	NA	NA	1	ft ²	Total Pb

Collected By	Jacob Jones	Date	5/4/2011	Relinquished	Jacob Jones	Date	5/4/2011	Matrix	Air	Micro-Vacuum	MV	MP	ST	SW	TL
Received By	<i>[Signature]</i>	Time	14:50	By	<i>[Signature]</i>	Time	14:50	Aqueous	Bulk	Mold Plate	3	Spore Trap	3	Swab	Tape-Lit
Condition Upon Receipt	Standard	5-7 Business Days		Method of Shipment				Solid	Solid						
Sample Notes	Please Email to: dustin.davidson@deq.ok.gov														



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

Environmental Chemistry Analysis Report

QuanTEM Set ID: 194799	Client: Marshall Environmental Management, Inc.
Date Received: 05/04/11	1601 SW 89th Street, Ste. A-100
Received By: Sherrie Leftwich	Oklahoma City, OK 73159
Date Sampled:	
Time Sampled:	Acct. No.: A331
Analyst: BM	Project: N/A
Date of Report: 5/11/2011	Location: N/A
	Project No.: 0052-LBP-050311

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	21.5	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
002	2	Wipe	Lead	28.1	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
003	3	Wipe	Lead	35.3	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
004	4	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
005	5	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
006	6	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
007	7	Wipe	Lead	74.1	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
008	8	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
009	9	Wipe	Lead	93.2	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
010	10	Wipe	Lead	44.4	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
011	11	Wipe	Lead	76.9	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
012	12	Wipe	Lead	201	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
013	12-SE	Wipe	Lead	78.6	16	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
014	12-C	Wipe	Lead	51.9	16	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
015	12-NW	Wipe	Lead	71.9	16	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
016	13	Wipe	Lead	104	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
017	14	Wipe	Lead	163	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

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 7420 (1) = EPA 600/R-93/200 Preperation Modified. EPA 7420 Analysis Modified

EPA Method 7082 (2) = EPA 600/R-93/200 Preperation 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: 194799
Date Received: 05/04/11
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 5/11/2011

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

Acct. No.: A331

Project: N/A

Location: N/A

Project No.: 0052-LBP-050311

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	15	Wipe	Lead	229	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
019	16	Wipe	Lead	496	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
020	17	Wipe	Lead	75.7	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
021	18	Wipe	Lead	109	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
022	19	Wipe	Lead	<21.3	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
023	20	Wipe	Lead	24.0	21.3	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
024	IFR-E	Wipe	Lead	2,370	16	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
025	IFR-C	Wipe	Lead	1,010	16	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)
026	IFR-W	Wipe	Lead	12,200	16	ug/sq. Ft.	05/11/11 12:00	W EPA 7420 (1)

Authorized Signature: _____

Benton Miller, Analyst

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission.

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 7420 (1) = EPA 600/R-93/200 Preparation Modified. EPA 7420 Analysis Modified

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

Supplemental Report QAQC Results

QA ID: 8754
Test: Lead

Date: 5/11/2011
Matrix: Wipe

Lab Number: 194799
Approved By: Benton Miller
Date Approved: 5/11/2011

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
ICB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.1	5.5
FCV	4.5	5.3	5.5
ICV	0.8	1.2	1.2
RLVS	0.256	0.378	0.384

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.470	6.110	111.7	5.711	104.4	6.8
MS-W1	0.000	5.384	6.105	113.4	6.203	115.2	1.6

Authorized Signature: 

Benton Miller, Analyst



GUTHRIE ARMORY

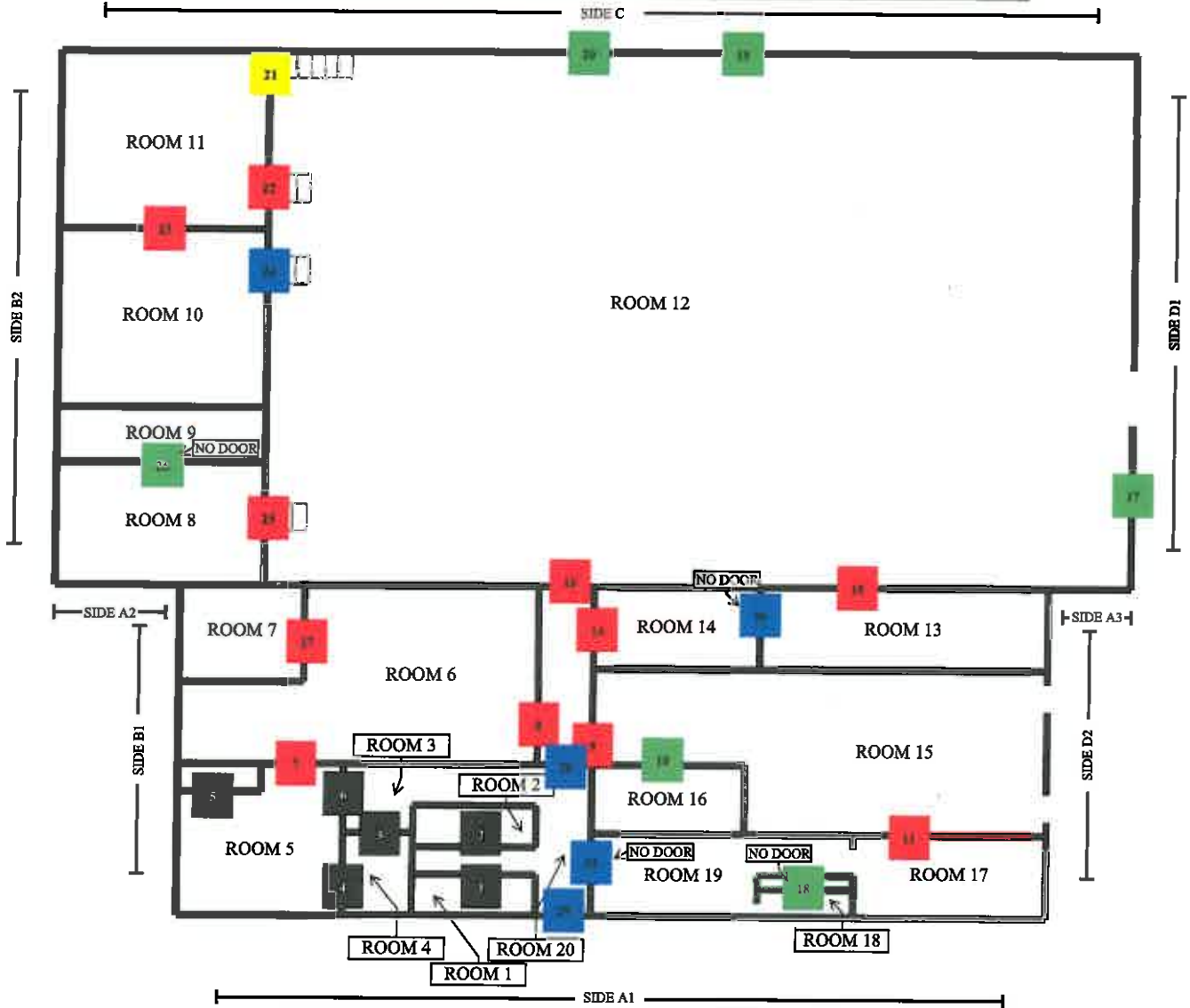
LEAD-BASE PAINTED DOORS & DOORJAMBS

LEAD-BASE PAINTED DOOR

LEAD-BASE PAINTED DOORJAMBS

DOORS/DOORJAMBS NEGATIVE FOR LEAD-BASED PAINT

FACTORY FINISH DOORS/DOORJAMBS



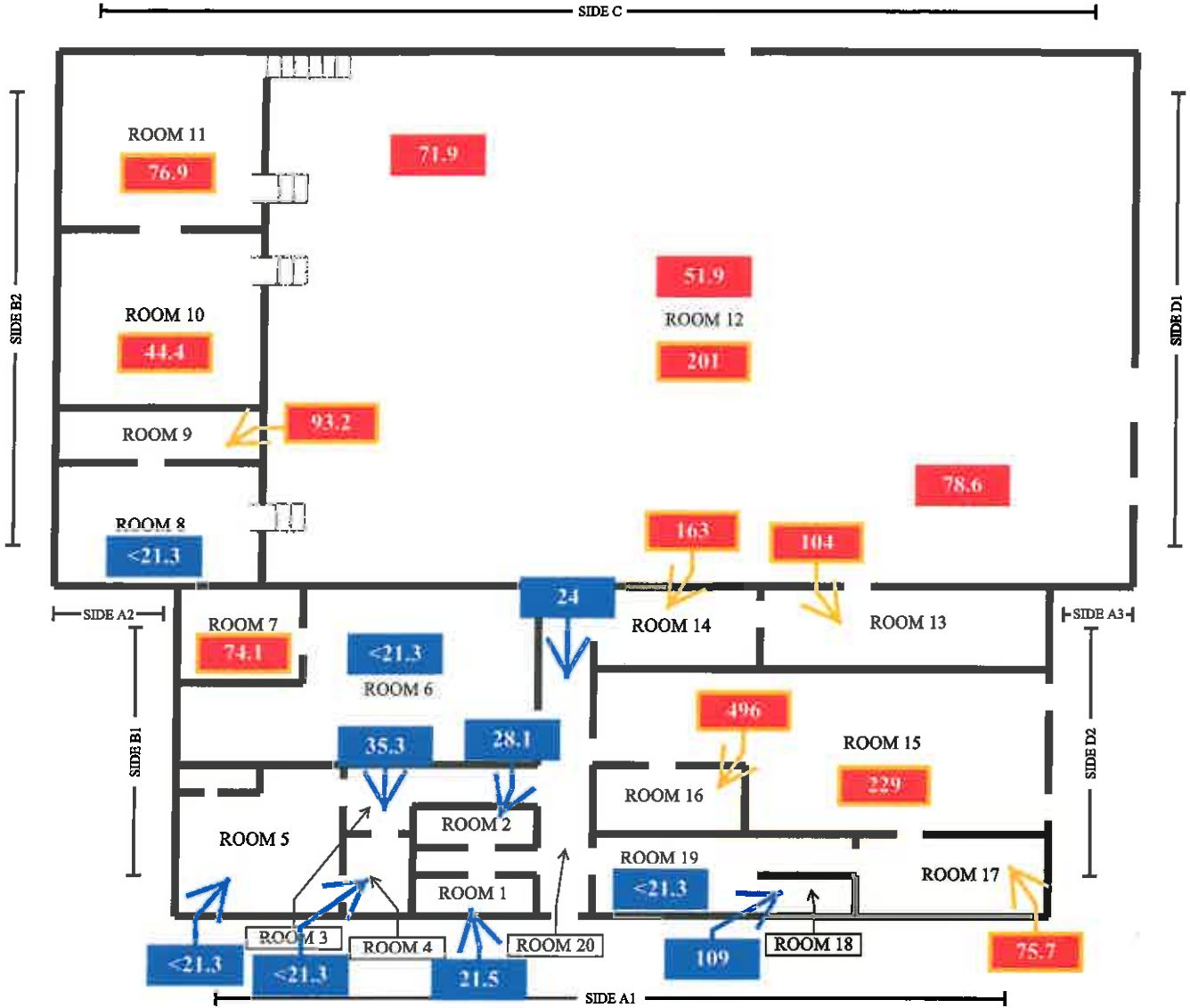
GUTHRIE ARMORY



LEAD CONCENTRATIONS IN SURFACE DUST

SAMPLE RESULT
< ACTION LEVEL

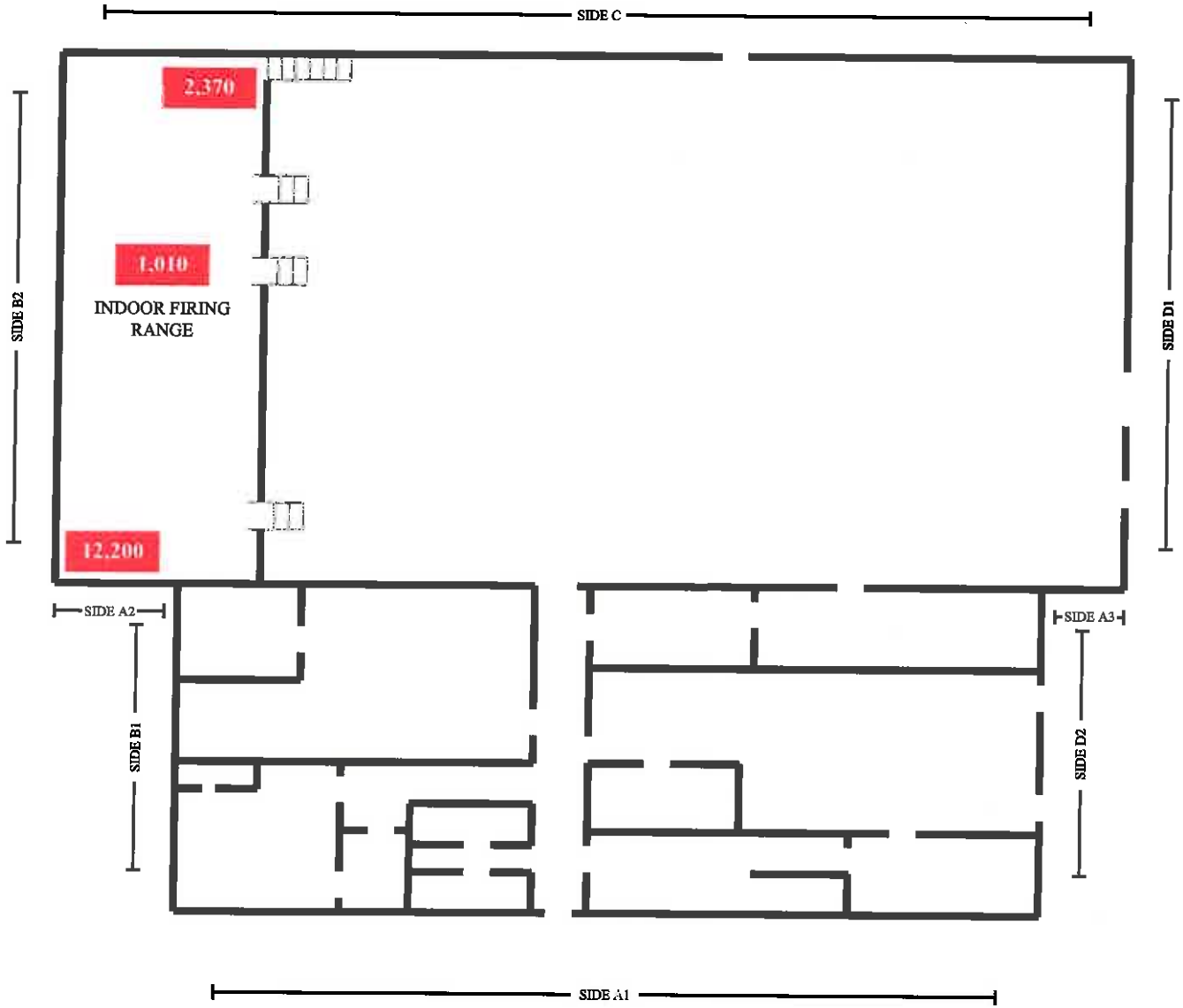
COMPOSITE
SAMPLE



GUTHRIE ARMORY INDOOR FIRING RANGE



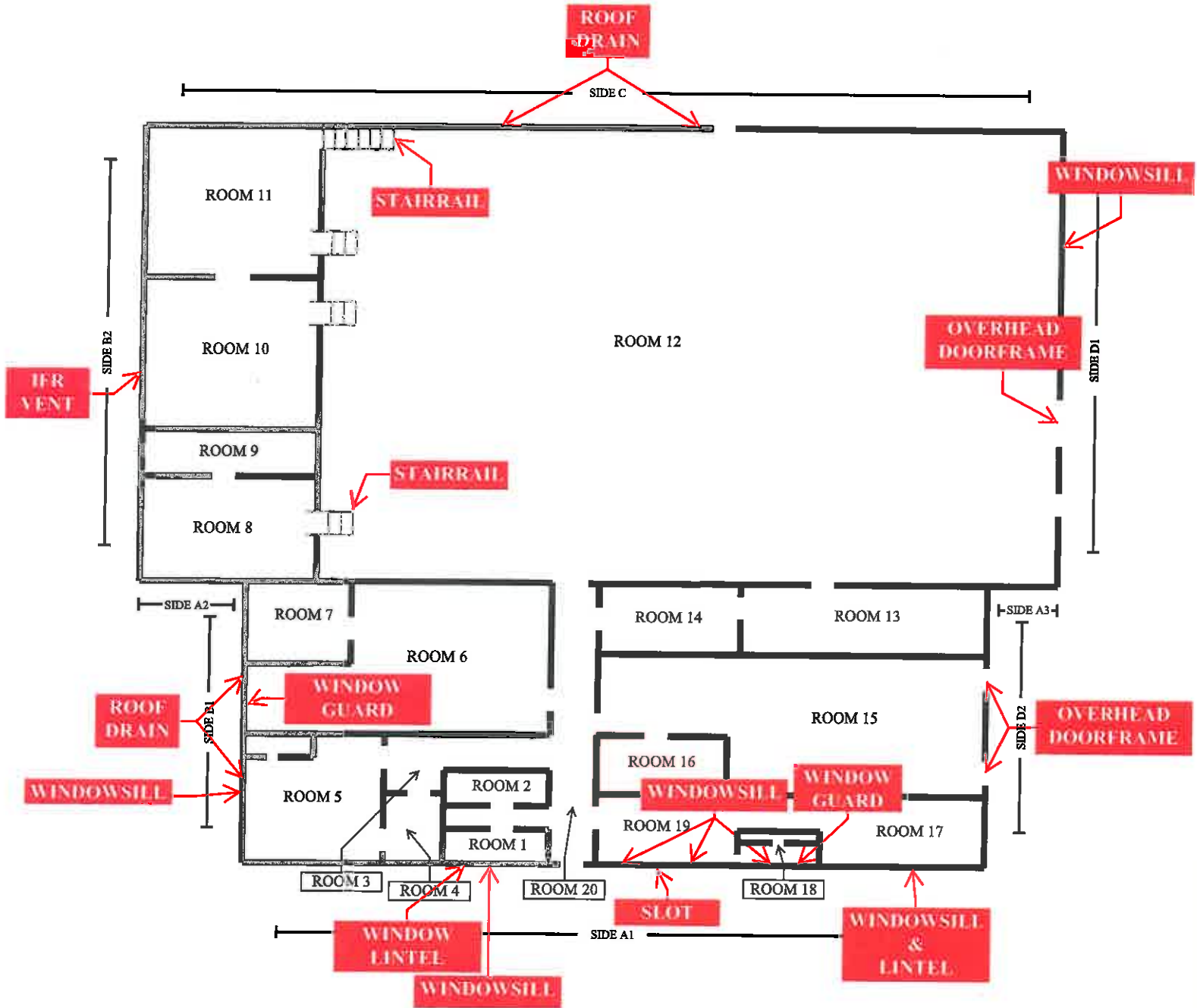
**LEAD CONCENTRATIONS IN
SURFACE DUST**



GUTHRIE ARMORY



LEAD-BASE PAINTED
MISCELLANEOUS SURFACES





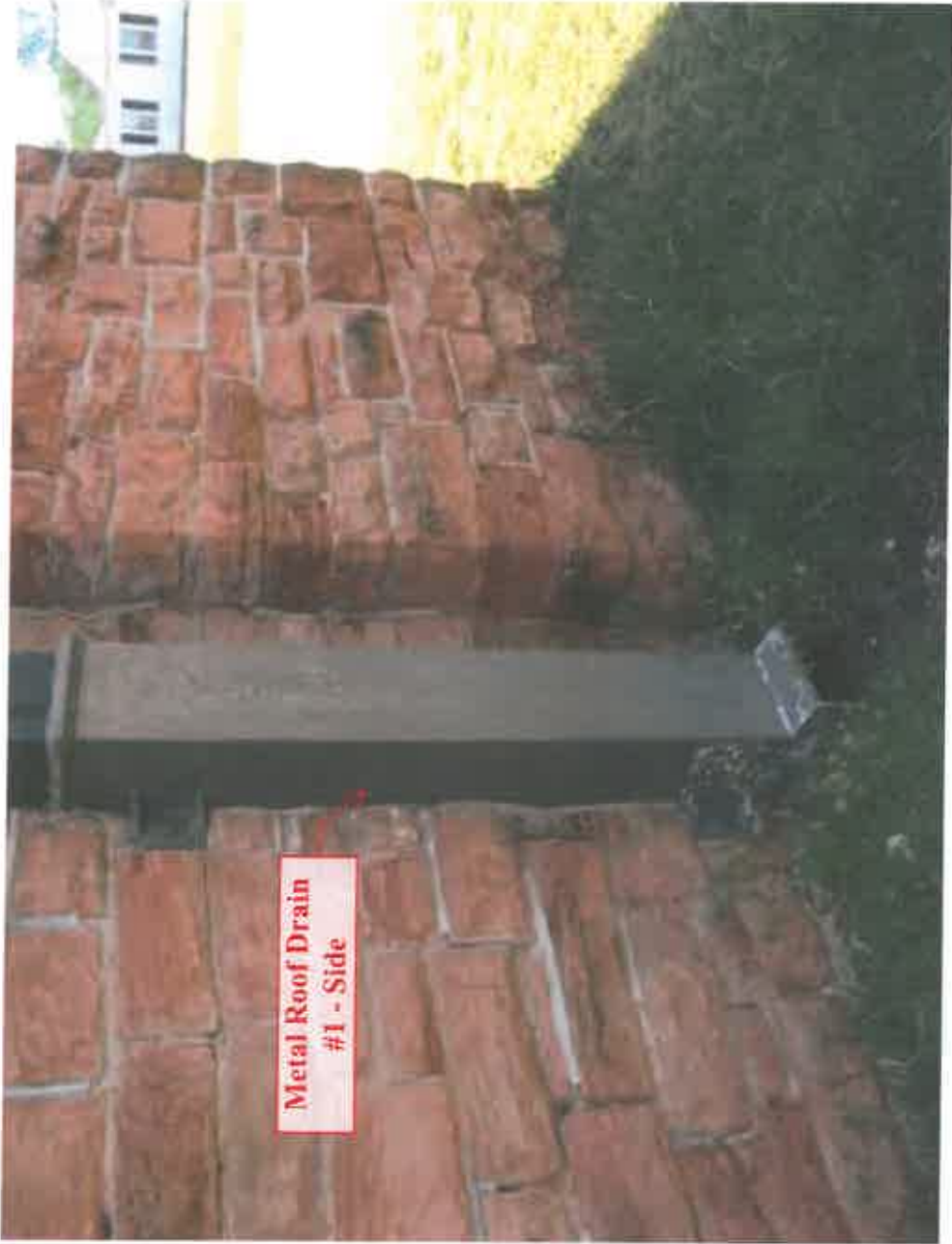
**Wooden Windowsill
#2
Room 19 - Side A**



Wooden Windowsill
#1
Room 19 - Side A



**Metal Roof Drain
#1 - Side C**



**Metal Roof Drain
#1 - Side**



**Metal Roof Drain
Side B**





**Metal Window
Lintel
#5 - Side A**



**Metal Window
Lintel
#1 - Side A**



Metal Window
Guard
Room 18 - Side A
Room 18 - Side A



**Metal Window
Guard
Room 6 - Side B**



**Metal Stair Rail
Side C (North)**



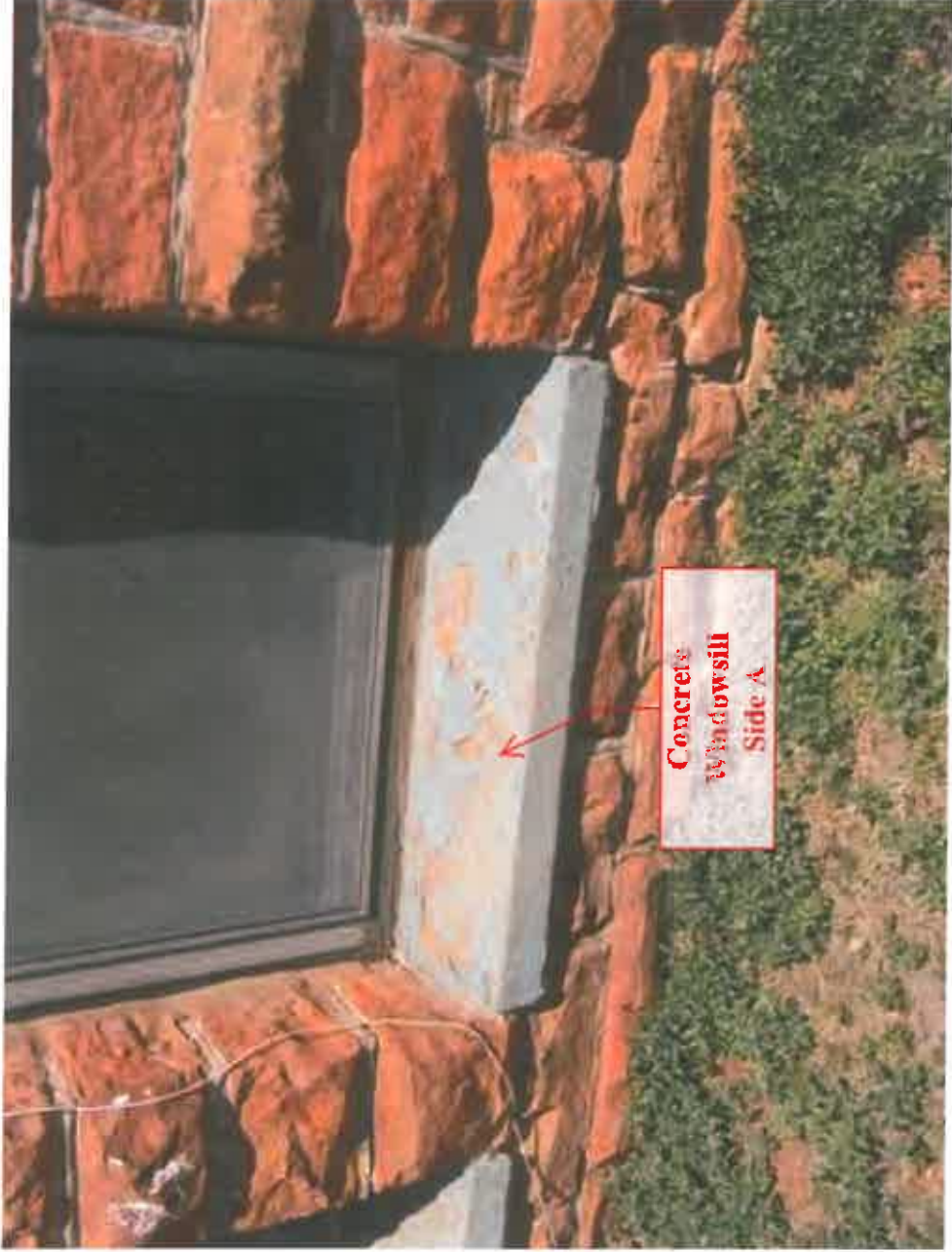
**Metal Stair Rail
Room 12 - Side A
(North)**



**Metal Roof Drain
#2 - Side C**



**Concrete
Windowsill
#1 - Side B**



**Concrete
Window Sill
Side A**



Concrete Windowsill
Room 18 - Side A





**Concrete
Windowsill
#2 - Side A**



Overhead
Door Frame
#1



Overhead Door
Frame #2 & #3

SCOPES OF WORK

SCOPE OF WORK

For

Abatement of Friable and Non-Friable Asbestos at The Former Guthrie and Clinton National Guard Armories

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from licensed asbestos abatement contractors for asbestos remediation services at two former National Guard armories located in Guthrie and Clinton, Oklahoma. **All bids must be submitted to DEQ on company letterhead by close of business (4:30pm) on Monday, February 18, 2013.** Qualified bidder shall follow all appropriate OSHA requirements. This scope of work (SOW) describes the friable and non-friable and/or non-regulated asbestos containing materials (ACM) that will be removed. For details on the ACM including locations, please refer to the updated floor plan maps in Attachment 1. Inspection reports have been provided for your reference in Attachment 2, however these reports do not include the additional square footage of floor tile to be removed in the Guthrie Armory. For this reason, please use the floor plan maps in Attachment 1 for accurate square footage and locations.

Friable asbestos is present in the heater flue of Room 6 in the Guthrie Armory and also present in 160ft² of bedding mud in Room 3 of the Clinton Armory. A project design for the removal of friable asbestos in the Clinton armory is included in this Scope of Work (Attachment 3). Friable asbestos in the heater flue insulation of the Guthrie Armory shall be removed as small quantity short duration and thus does not require a project design.

Marshall Environmental will be performing oversight on this project. Once asbestos has been removed, contractor shall contact Marshall Environmental to perform the final inspection. Marshall Environmental will determine if all asbestos has been appropriately removed or if additional work needs to be performed. Marshall Environmental can be reached by phone at (405) 606-0401 or via email at marshenv@swbell.net.

The Guthrie Armory is located at 720 East Logan Avenue in Guthrie, Oklahoma, and the Clinton Armory is located at 723 South 13th Street in Clinton, Oklahoma. Both buildings will have water and electricity to use during remediation.

SPECIAL PROVISIONS:

1. The contractor shall schedule all work to be complete within thirty (30) days of the date contract is awarded. Coordination of work shall be scheduled with DEQ.
 - a. A pre-construction meeting shall be held at the site after contract is awarded to review the Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
2. All work shall be performed in accordance with all applicable State and Federal regulations.

- a. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations.

CONTRACTOR SHALL:

- Possess a current Oklahoma Department of Labor (ODOL) Asbestos Abatement Contractor License in order to perform asbestos abatement
- Follow all appropriate OSHA requirements

Submit With Bid:

- Copy of ODOL Asbestos Abatement Contractor License
- Three references with name, type of project, phone number, and location of similar work in the last three years

Submit After Contract Award:

- A Work Plan with planned activities and schedule to DEQ for approval

NON-FRIABLE ASBESTOS ABATEMENT INSTRUCTIONS

Below is a summary of the non-friable and/or non-regulated asbestos containing materials (ACM) that shall be removed from the Guthrie and Clinton Armories. See the Floor Plan Maps for both armories for locations of ACM to be removed (Attachment 1).

- Remove floor tile and mastic from:
 - Guthrie Armory Rooms 1, 2, 6, 8, 10, 11, 19, and 20
 - **Total of 2,807 square feet**
- Remove floor tile and mastic from:
 - Clinton Armory Rooms 1, 2, and 3
 - **Total of 484 square feet**

FRIABLE ASBESTOS ABATEMENT INSTRUCTIONS

Below is a summary of the friable asbestos containing materials (Regulated ACM) that shall be removed from the Guthrie and Clinton Armories according to Oklahoma Department of Labor (ODOL) regulations and DOL approved Project Design (Attachment 3). See Guthrie and Clinton Armory Floor Plan Maps for locations of friable ACM to be removed (Attachment 1).

- Remove bedding mud from:
 - Clinton Armory Room 3
 - **Total of 160 square feet**
- Remove heater flue insulation from:
 - Guthrie Armory Room 6
 - **Total of 10 linear feet**
 - For details and location of the heater flue see the Guthrie Armory Asbestos Survey Report (Attachment 2).
 - Heater flue insulation can become friable so contractor shall remove as small quantity short duration and take care not to disturb or cut the fibers during removal.

FINAL REPORT

- Write final report containing the following information and submit to DEQ:
 - A detailed summary of work
 - Waste manifests (if any)
 - Photo documentation of work
 - Photo documentation of work will have color digital photos with captions describing photo
 - Photos will show before and after photos of work completed.
- Final report will be submitted in hard copy and electronically on disc.

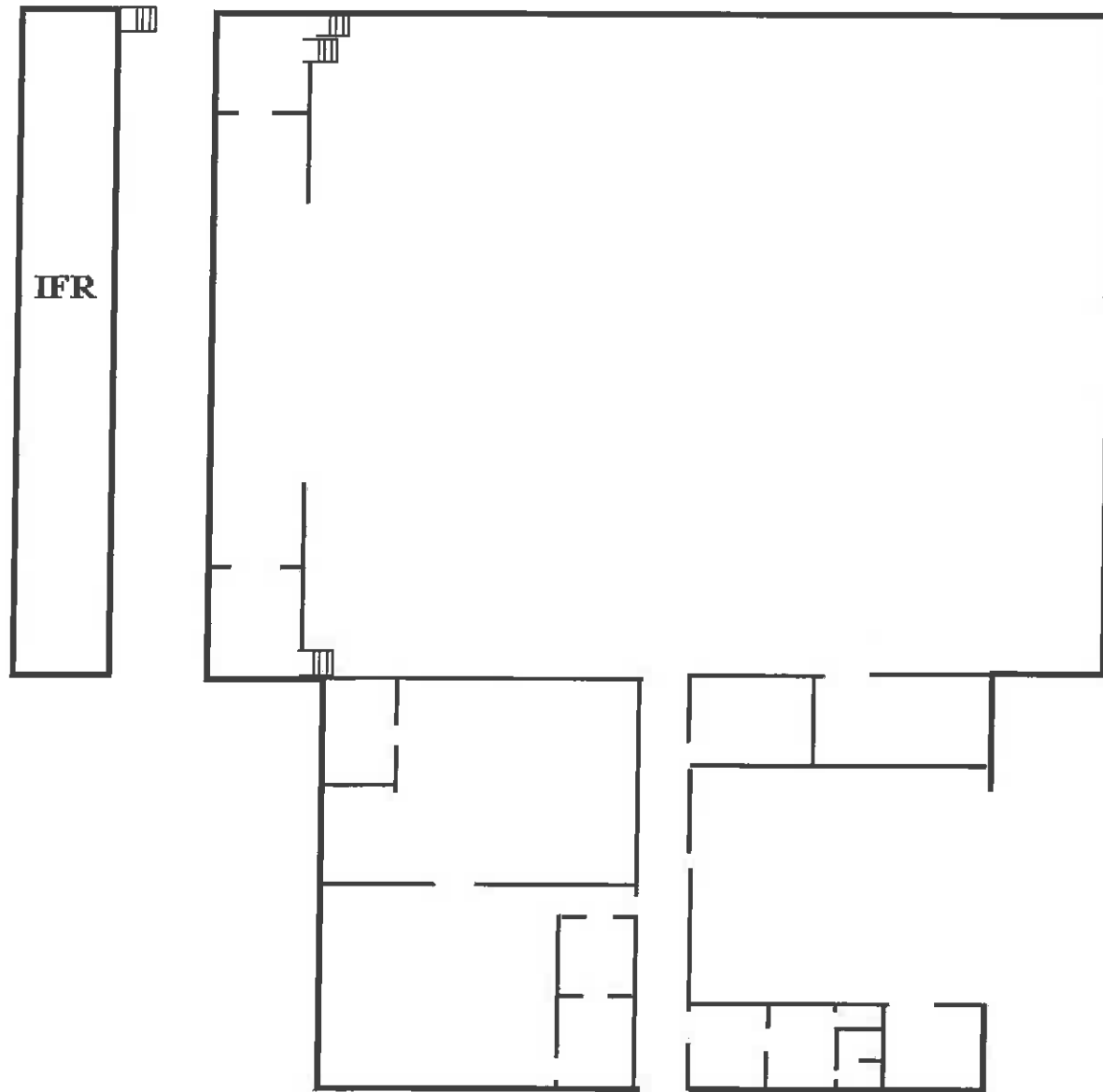
OWNER REPRESENTATIVE

Owner's Representative: Rebecca Marfurt
Oklahoma Department of Environmental Quality
Land Protection Division
707 N. Robinson
Oklahoma City, OK 73102
(405) 702-5112 (Office)
(405) 702-5101 (Fax)
E-Mail: Rebecca.Marfurt@deq.ok.gov

ATTACHMENT 1

GUTHRIE ARMORY AND CLINTON ARMORY FLOOR PLAN MAPS

**Guthrie Armory
Floor Plan
Construction Date 1938**



*Not to scale
Floor plan approximate*

ATTACHMENT 2

GUTHRIE ARMORY AND CLINTON ARMORY ASBESTOS INSPECTION REPORTS

STATEMENT OF WORK

For

Remediation of Lead-Based Paint and Lead Contamination at Guthrie Armory

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at a former National Guard armory located in Guthrie, Oklahoma. This statement of work (SOW) describes the cleanup of lead contamination associated with the indoor firing range (IFR), lead contaminated dust on the floors of the building and lead-based paint (LBP) located on surfaces throughout the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the Guthrie Armory is attached for review (**Attachment 1**).

The building is located at 720 East Logan Avenue, Guthrie, Oklahoma 73044. The building does have available water and electricity to use during remediation.

SPECIAL PROVISIONS:

1. **Work Schedule:** The Contractor shall schedule all work to be complete within 90 days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
2. **Conditions of Work:** The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
 - c. Coordination of work areas shall be scheduled with DEQ.
 - d. **Disposal of Removed Materials:** All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through;
- Possess a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow all appropriate OSHA requirements;
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;
- Read *Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges*, November 3, 2006, Departments of the Army and Air Force, National Guard Bureau (**Attachment 2**), and refer to this document as a reference and guideline for remediating IFR lead contamination.

Submit With Bid:

- Copy of lead-based paint firm license;
- Copy of lead-based paint supervisor license;
- Three references with name, type of project, phone number, and location of similar work in the last three years.

Submit After Contract Award:

- A Work Plan with planned activities and schedule to DEQ for approval.

LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

• Non-Friction and Non-Impact Surfaces

- All items listed below shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (**Attachment 4**). Encapsulant shall be a minimum of 20 mils thick. The Lead-Based Paint and Settled Dust Sampling Report with floor plan maps detailing the locations of the lead-based paint is attached for review (**Attachment 6**);
 - All Down Spouts (Roof Drains);
 - All Window Lintels;
 - All Window Sills;
 - All Overhead Door Frames, Guards, and Casings;
 - The Indoor Firing Range external vent fan surround and lintel;
 - The indented slots on exterior (Side A) of building;
- The drill floor hand rails shall have all paint removed and then be painted with a neutral colored primer;
- All interior window bars will be removed and properly disposed;
- Deteriorated paint removed from building surface will be properly disposed.

• Friction and Impact Surfaces

Doors and Frames (See Attachment 5)

- A Door-Scope of Work with map, door measurements, and specific details on abatement requirements for each door is attached (**Attachment 5**);
- Specifications for replacement items are attached (**Attachment 5**);
- Doors will be replaced with UL listed 90 minute standard metal doors;
- Doors will be replaced with Steelcraft L18 and L16 – Series Honeycomb Doors (Specifications Attached) or equivalent;
- Contractor must submit product data for approval if different from doors or door frames in bid package;
- Replacement doors and frames must meet all compliance and fire rating requirements in the attached specifications;
 - a. **Exterior Doors**
 - Exterior doors will be replaced with galvanized, 16 gage, honeycomb core insulated doors;
 - Continuous Geared Door Hinges: As manufactured by Pemko or approved equal – Satin Nickel – Half Surface Safety Hinges: Standard (Specifications Attached);
 - Threshold: As manufactured by National Guard Products or approved equal – 426E (Specifications Attached);
 - Weather Strip: As manufactured by National Guard Products or approved equal – 160VA (Specifications Attached);
 - Lever: As manufactured by Schlage or approved equal – D Series “Rhodes”, 626 finish, function ND60PD (Specification Attached);

- Keying: All doors to be keyed alike;
- Provide sealant per 07920 specification attached.
- b. Interior Doors (All Except Indoor Firing Range Door)**
 - Interior doors will be replaced with non-galvannealed, 18 gage, honeycomb core insulated doors;
 - Continuous Geared Door Hinges: As manufactured by Pemko or approved equal – Satin Nickel – Half Surface Safety Hinges: Standard (Specifications Attached);
 - Knob: As manufactured by Schlage or approved equal – A Series “Orbit”, 626 finish, function A10S (Specification Attached);
 - Provide sealant (caulking) per 07920 specification attached.
- c. Indoor Firing Range Door**
 - Door will be replaced with non-galvannealed, 18 gage, honeycomb core insulated doors;
 - Frame will be replaced with Steelcraft F16 and F14 Series Flush frames (Specifications Attached) or equivalent;
 - Knob: As manufactured by Schlage or approved equal – A Series “Orbit”, 626 finish, function A10S (Specification Attached);
 - Provide sealant (caulking) per 07920 specification attached.

- **Clearance Inspection**

- Once lead-based paint has been removed from surfaces, DEQ will perform a visual inspection to confirm lead-based paint has been removed appropriately before surfaces are painted or sealed.
- Once lead-based paint abatement is complete and after room floors are cleaned, contact Marshall Environmental Management to perform post abatement clearance sampling in these areas. See Section C (Confirmation and Clearance Sampling) for additional information.
- If samples do not meet EPA and HUD standards for lead dust (40 µg/SF for floors), areas shall be re-cleaned and re-sampled.

- **Sampling and Disposal**

- DEQ assumes that all lead-based paint chips removed from surfaces are considered hazardous waste. Lead-based paint removed from surfaces shall be disposed as hazardous waste.
 - If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the Contractor’s responsibility to characterize this waste under 40 CFR 262.11 and if they are determined to be hazardous waste, disposing of them as such. The Final Report shall contain all relevant information regarding the waste determination.
 - A completed and signed waste manifest, Land Disposal Notification Form, and Certificate of Disposal demonstrating that the paint chips were properly disposed at a hazardous waste facility must be included in the Final Report.

LEAD DUST REMEDIATION INSTRUCTIONS

Sequence of Events

The initial cleaning of the building shall be as follows:

1. First Phase –
 - a. The indoor firing range (IFR) shall be cleaned (See *Section 1. Indoor Firing Range (IFR)* below for details).
 - b. The Drill Floor and Stage Rooms shall be cleaned (See *Section 2. Remaining Building* for details).
2. Second Phase –
 - a. All floors of the remaining building shall be cleaned (See *Section 2. Remaining Building* for details).
 - i. Once the First Phase is complete there will be a one to two week delay before starting the Second Phase.

1. Indoor Firing Range (IFR)

The IFR in these buildings is a long narrow basement room with attached small side room where the Oklahoma Military Department would target practice with weapons. Sometimes the IFR will have a steel bullet deflection plate and sand trap. The IFR is to be cleaned by removal of all lead contaminated materials, including debris (if present), sand (if present), steel plate (if present), lead-based paint (if present), and lead contaminated dust and other lead containing particulates on the floor, walls, and ceiling of the IFR.

• Pre-remediation Preparation

- To ensure cross contamination does not occur, use engineering controls such as:
 - Sealing openings with 6 mil poly sheeting to contain dust inside IFR;
 - Covering floor of area outside IFR with 6 mil poly sheeting to make sure not to track lead dust into clean areas;
 - Securing IFR at the end of the work day. At no time shall the IFR be accessible for unauthorized entry without the contractor present;
- When inside IFR wear appropriate personal protective equipment (See **Attachment 3**).

• Water Removal

- All wash water from the IFR shall be filtered through a 1 micron filter and then sampled for total lead and total phosphorus. Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3. Wash water shall be disposed appropriately. Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility.

- **Pre-remediation Removal**

- Decontaminate door to IFR side room, remove from frame, wrap in poly sheeting, and properly dispose;
- Remove all paint from side room door frame to bare metal and paint frame with neutral colored primer;
- Sand Trap:
 - Decontaminate metal backstop, wrap in poly sheeting and properly dispose;
 - Decontaminate sand trap framework, wrap in poly sheeting and properly dispose;
 - Place sand in sealed drums and dispose of sand as hazardous waste.
- Decontaminate all items to be removed from the IFR, wrap in poly sheeting, and properly dispose.
 - Items such as acoustical tiles, carpet, or other porous materials shall be HEPA vacuumed, washed, and sampled for TCLP. Acoustical tile, if present, will have 3 – five part composite samples taken. All other materials shall have 1 – five part composite sample taken of each material. If samples pass TCLP then properly dispose. If any samples fail TCLP, dispose of that item as hazardous waste.

- **Remediation**

- HEPA vacuum and wet wash walls, floor, ceiling, vent fan, and other structures that are contaminated;
- Dispose lead contaminated dust, wash water, and appropriate cleaning materials as hazardous waste or as appropriate (See section 3. Disposal of Materials for detailed information).

- **Post-remediation**

- All post-remediation sampling shall be performed by Marshall Environmental Management (MEM). The Contractor shall provide MEM a minimum of five (5) calendar days prior notice to perform sampling. See *Section 4. Confirmation and Clearance Sampling* for contact information;
- Post remediation sampling is required to confirm the IFR has been remediated to 200 micrograms per square foot (ug/SF);
 - Areas above 200 ug/SF shall be re-cleaned and re-tested until results are at or below 200 ug/SF;

- If surfaces of the IFR cannot be cleaned and DEQ determines that these surfaces contain imbedded lead fragments, construction grout shall be used over these surfaces.
 - Surfaces shall be thoroughly cleaned;
 - A two part epoxy mixture designed for concrete shall be applied to surfaces according to manufacturer's specifications. Use Epoxy-Coat Garage Floor Coating Kit or equivalent. Specifications are attached (Attachment 5);

- Once the IFR has been remediated to 200 ug/SF, seal the floor, ceiling, and walls with appropriate sealant;
 - Floor, ceiling, and walls will be sealed with KM-669 Acrylic Sealer or equivalent. Specifications attached (Attachment 4);
 - IFR area will have forced air applied to room 4 days after sealer is applied. This will be done to remove all vapors from the area;

- After surfaces are sealed, the Contractor shall provide MEM a minimum of five (5) calendar days prior notice to perform post remediation wipe sampling to confirm the IFR has been remediated to 40 ug/SF;

- Areas above 40 ug/SF shall be cleaned to remove lead dust from sealed surface. Once cleaned, the area shall be retested to confirm area has been remediated to 40 ug/SF;

- All re-testing of previously failed areas shall be performed by MEM. Contractor shall provide MEM a minimum of five (5) calendar day's prior notice to perform sampling.

- The chart below summarizes the clearance numbers for the indoor firing range. All lead wipe samples must be at or below these numbers in order for the room to be considered clean.

Post Remediation	Post Sealant
200 ug/SF	40 ug/SF

2. Remaining Building

Lead Dust Remediation (See Attachment 6)

- Properly clean up any large oil, grease, etc. spills on the floors and properly dispose before lead remediation begins;
- Surfaces above the floors such as walls, shelves, etc. may have accumulated dust that has settled. This accumulation shall be removed prior to the cleaning of the floors. This shall be done to prevent recontamination of the floors after they are cleaned.
- Floors of the entire building shall require lead dust remediation;
 - Remove dust from all equipment, shelving, trash, etc, and remove these items from room before remediation begins;
 - Remove dust from all carpet, remove carpet from rooms, and dispose of all carpet as non-hazardous waste before lead dust remediation of floor begins;
 - Dispose any materials, determined by the DEQ to be trash, as non-hazardous waste;
 - HEPA vacuum and wet wash floors of entire building;
 - Lead levels on the floor are high in many areas of the building and lead contaminated dust may be ground into the pores and cracks of the concrete. It may be necessary to clean floors several times or use alternate cleaning methods after HEPA vacuuming and wet washing to remove the lead dust from the concrete and get the lead levels down to 40 micrograms per square foot (ug/SF).
 - Contact Marshall Environmental Management (MEM) to perform independent third-party post remediation wipe sampling to confirm that room floors with lead contamination have been appropriately remediated to 40 micrograms per square foot (ug/SF). See Section 4 (Confirmation and Clearance Sampling) for additional information;
 - Areas above 40 ug/SF shall be re-cleaned and re-tested until results are at or below 40 ug/SF;
 - Lead dust and appropriate cleaning materials shall be disposed as appropriate.
 - Wash Water Disposal
 - All wash water from the building shall be filtered through a 1 micron filter and stored on site in containers;
 - The wash water will be sampled for total lead and total phosphorus; Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3;
 - Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility;
 - Wash water shall be disposed appropriately.

3. Disposal of Materials

Hazardous Waste

- Lead contaminated sand shall be disposed as hazardous waste;
- Lead contaminated dust from the cleaning of the IFR and remaining building shall be disposed as hazardous waste;
- Wash water filters shall be disposed as hazardous waste;
- Mop heads, towels, brushes, wipes, and other cleaning supplies shall be disposed as hazardous waste.

Other

- Poly Sheeting shall be disposed as appropriate. If contractor plans to dispose as non-hazardous waste, best management practices such as vacuuming, washing, wiping down, or cleaning poly sheeting prior to disposal shall be implemented.
- Personal protective equipment (gloves, tyvec, face masks, etc.) shall be disposed as appropriate.

4. Confirmation and Clearance Sampling

- Contractor may use his own lab to check progress of remediation, however all DEQ decisions shall be based on analytical data from MEM.
- Marshall Environmental Management (MEM) will be responsible for taking all post remediation samples.
- MEM shall be notified five (5) days prior to each sampling event.
- Contact Information: **Marshall Environmental Management Inc.**
1601 Southwest 89th Street, Suite 100-A
Oklahoma City, Oklahoma 73159
Contact: Sara Marshall
Phone: (405) 616 – 0401
- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling done outside the indoor firing range will be performed after all initial abatement, remediation, and cleaning is complete.
- The chart below summarizes the clearance numbers for the building. All lead wipe samples shall be at or below these numbers in order for these areas to be considered clean.

IFR Post Remediation	IFR Post Sealant	Room Floors
200 ug/SF	40 ug/SF	40 ug/SF

FINAL REPORT

- Write final report and submit to DEQ;
 - Final report shall include asbestos, lead dust and lead-based paint abatement;
- Final report shall include:
 - A detailed summary of work including any warranties and data;
 - sample results;
 - waste manifests; and
 - photo documentation of work;
 - Photo documentation of work will have color digital photos with captions describing photo;
 - Photos will show before and after photos of work completed.
- Final report will be submitted in hard copy and electronically on disc.

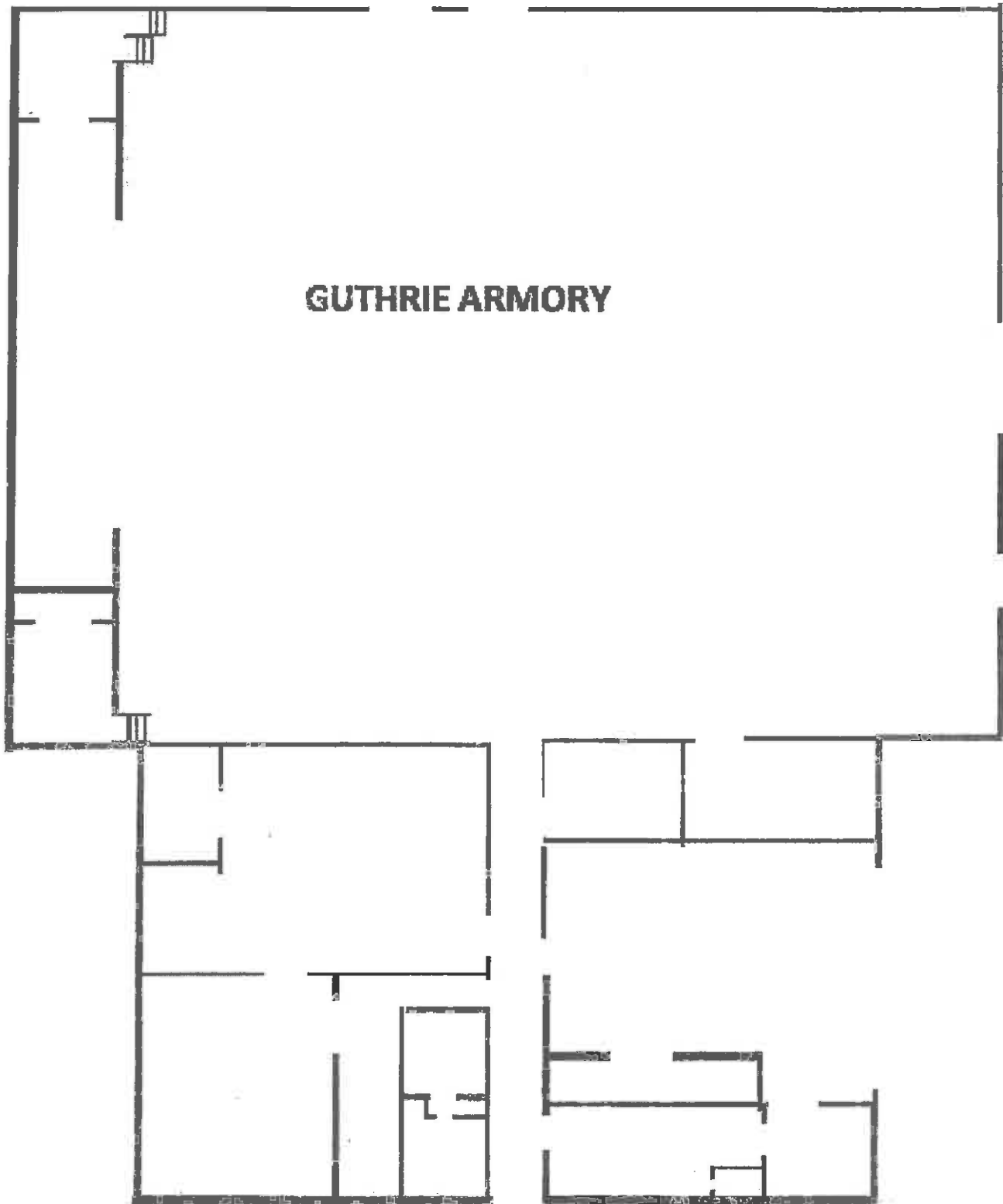
OWNER REPRESENTATIVE

Owner's Representative: Dustin Davidson
Oklahoma Department of Environmental Quality
Land Protection Division
707 N. Robinson
Oklahoma City, OK 73101
(405) 702-5115 (Office)
(405) 702-5101 (Fax)
E-Mail: Dustin.Davidson@deq.ok.gov

ATTACHMENT 1

Floor Plan Map

GUTHRIE ARMORY



ATTACHMENT 2

Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges

Departments of the Army and the Air Force
National Guard Bureau
Arlington, VA 22202-3231
3 November 2006

*NG Pam 420-15

Facilities Engineering

**Guidelines and Procedures for Rehabilitation and
Conversion of Indoor Firing Ranges**

By Order of the Secretaries of the Army and the Air Force:

H STEVEN BLUM
Lieutenant General, USA
Chief, National Guard Bureau

Official:

GEORGE R. BROCK
Chief, Plans and Policy Division

History. This printing publishes a revision of NG Pam (AR) 385-16/ANGPAM 91-101.

Summary. This pamphlet prescribes policy for rehabilitation and conversion of National Guard Indoor Firing Ranges (IFR).

Applicability. This guidance applies to all persons responsible for the operation of National Guard IFRs. As no regulation/guidance can foresee all situations that might arise, the following is written in a broad scope and is intended to be interpreted so as to ensure compliance with all applicable Federal and State laws and regulations.

Proponent and exception authority. The proponent of this regulation is Chief, NGB-SG-IH. The proponent has the authority to approve exceptions to this regulation that are consistent with controlling law and regulation.

Suggested Improvements. Users of this pamphlet are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to NGB-SG-IH, 1411 Jefferson Davis Highway, Arlington, VA 22202-3231.

Distribution A.

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* This publication supersedes NP Pam (AR) 385-16/ANGPAM 91-101, dated 31 January 1994

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Glossary

1-1. Purpose

This pamphlet establishes the policy and procedures for rehabilitation and conversion, of National Guard IFRs.

1-2. References

Required and related publications and referenced and prescribed forms are listed in Appendix A.

1-3. Explanation of abbreviations and terms

Abbreviations and special terms used in this publication are listed in the glossary.

1-4. Policy and Procedures

Indoor firing ranges can be safely rehabilitated or converted for other uses, such as a storage area, classrooms or office space, provided the following –

a. Prior to conversion active ranges must be thoroughly decontaminated and cleaned to acceptable levels. *All ranges converted prior to the publication date of this pamphlet, must be inspected and evaluated to determine lead contamination.* This will be accomplished by a certified National Guard Industrial Hygienist (IH) or a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.

b. The level of cleanliness is to be determined by sampling. The Occupational Safety and Health Administration's (OSHA) Technical Manual, 5th Edition, provides guidance on the methods and techniques needed to collect wipe samples (Appendix B).

(1) Wipe samples must be collected and analyzed prior to and after cleaning.

(2) Post-cleaning surface wipe sample results must be less than 200 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) (40 micrograms in the case of child exposure). The sampling strategy, which is the amount and location of wipe samples to be collected, is provided in Appendix C.

c. Equipment/Items previously stored in the range must be decontaminated and cleaned to acceptable levels as determined by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs.

(1) Samples must be collected from equipment/items stored in the range. Sample selection is critical, because the number of items stored, length of storage, and level of contamination differs from range to range. The amount and location of the samples should be representative of the areas where lead dust is most likely to accumulate. The more samples collected, the better the statistical comparison of the results.

(2) Samples must be collected from the smooth surfaces of the equipment/items, as much as possible. Results of samples collected from a rough surface will be inaccurate due to the minimal surface contact of the media. Further, the likelihood of tearing the media filter is greater on rough surfaces.

(3) Samples should also be collected on items stored the longest period of time, and which have not been disturbed. Items stored closest to the bullet trap and firing line are likely to have higher concentrations of lead dust.

1-5. Goal

To ensure that every IFR is free of lead dust which means to test less than 200 micrograms and to reduce the number of unsafe National Guard IFRs.

1-6. Deviation

Deviations from this guidance will require a written exception to policy from your Regional Industrial Hygiene Office. Questions and/or comments regarding this subject should be directed to your Regional Industrial Hygiene Office or Chief, National Guard Bureau, Office of the Joint Surgeon, ATTN: NGB-SG-IH, 1411 Jefferson Davis Highway, Arlington, VA 22202-3231.

Chapter 2**Health and Medical Aspects****2-1. Health Effects**

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible, and common in the environment. Lead can enter the body by inhalation (breathing) or

ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

2-2. Medical Surveillance for Occupational Exposure to Lead (Pb)

a. Per 29 CFR 1910.1025 (j)(i-ii), Medical Surveillance - General, "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."

b. The DOD 6055.5-M, Occupational Medical Surveillance Manual - Table 2-1 lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

2-3. Air Monitoring

Worker breathing zone air samples must be collected to ensure that personnel are not overexposed to airborne lead during the cleanup phase. Daily air samples will be collected from all personnel involved in the cleanup operation. These exposure levels will be used to evaluate work practices and medical surveillance requirements.

2-4. Wipe Sampling Protocol and Media

A template measuring 10 centimeters by 10 centimeters square, approximately 4 inches square, should be used to accurately measure and mark the area before collecting wipe samples. Samples should be staggered to different areas of the range. A grid system should be utilized. Samples should not be collected all on one section of a wall, or end of the building. OSHA Technical Manual provides the necessary guidance on the technique needed to collect wipe samples (Appendix B). Only distilled or deionized water will be used to saturate dry sample media. At least one field blank must be submitted with every 10 samples. The field blank must be from the same lot, and labeled as a blank.

2-5. Personal Protective Equipment

29 CFR 1910.1025 (f) (2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134 (b), (d), (e) and (f). As a minimum, personnel conducting the decontamination of the range will be provided with the following personal protective equipment.

a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:

- (1) Protective coveralls with hood and shoe covers or disposable Tyvek™ full body suit.
- (2) Disposable rubber gloves; and disposable shoe coverlets (if necessary).
- (3) Full-face air purifying respirator with P-100 cartridges.

b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.

c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.

d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).

e. The employer will ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.

f. The employer will further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.

g. The employer will ensure that the containers of contaminated protective clothing and equipment are labeled as follows: **CAUTION: CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.**

Chapter 3 Education, Maintenance, Cleaning and Conversion

3-1. Worker Education

a. 29 CFR 1910.1025, Appendix B, requires an information and training program for all employees exposed to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program will be repeated annually for personnel in range cleanup operations.

b. The commander/supervisor will ensure that each soldier or Army National Guard (ARNG) employee is informed of the following:

- (1) The content of the standard and its appendices.
- (2) The specific nature of operations that could result in exposure to lead above the action level.
- (3) The purpose, proper selection, fitting, use and limitations of respirators.
- (4) The purpose and a description of medical surveillance program.
- (5) Eating and drinking are prohibited in lead contaminated areas.
- (6) Smoking and smoking materials will not be permitted in contaminated areas.
- (7) Soldiers and ARNG employees must wash their hands and other exposed skin whenever they leave the work area.
- (8) The engineering controls and work practices associated with the individual's job assignment.
- (9) The contents of any compliance plan in effect.
- (10) Instructions to soldiers and ARNG employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

3-2. Range Cleaning Instructions

a. Written procedures, such as a scope of work, or standing operating procedure that complies with all Federal, State and local regulations must be established prior to decontamination operations.

b. The range ventilation system will be in operation during range cleaning to ensure that a negative pressure environment is maintained. In the absence of mechanical ventilation system, all doors and windows will be sealed to eliminate fugitive emissions.

c. A High Efficiency Particulate Air (HEPA) filtered vacuum system, which is designed to collect loose surface lead dust particles, is the preferred method of cleanup. If a HEPA filtered vacuum is not available, the range can be cleaned using a wet method.

d. Prohibited methods include:

(1) Wet cleaning using high-pressure systems, since this method may embed the lead into the substratum and generate large quantities of hazardous waste.

(2) Dry sweeping is not permitted.

e. All surface areas of the range must be cleaned. In addition, areas outside of the IFR where lead can be tracked must be cleaned.

f. The preferred progression of cleaning is from top to bottom and from behind the steel bullet trap to the firing line.

(1) Clean the steel bullet trap, areas in front of and behind the bullet trap, and the steel bullet trap plate(s), after removing the sand (if applicable).

(2) Clean the ceiling, floors, lights, baffles, retrieval system, heating system(s), and ventilation duct(s).

(3) Vacuum and remove acoustical material. *Painting over this material is not recommended.*

(4) Clean the floor the last, starting at the bullet trap and ending behind the firing line.

g. When using a HEPA filtered vacuum, vacuum all surface areas until no dust or residue is visible.

h. Any general purpose cleaning solutions can be used for the wet method. However, Spic and Span™ has been found to be an effective cleaning solution by other Army organizations. Mix new solutions of cleaning solution frequently. Wet wiping will require dual containers of water, one container for wetting the applicator (mops, rags, sponge, etc.) and the other container for rinsing the applicator after the dust has been wiped from the surfaces. After wet wiping all surfaces, permit the area to dry.

i. Properly dispose of all hazardous waste. Do not place lead contaminated waste into the sewer system or onto the ground.

(2) Mop-heads, sponges and rags will be discarded as hazardous waste following cleanup.

j. A thorough visual inspection to detect dust should be made following cleanup and prior to collecting post surface wipe samples.

k. Wood floors should receive a coat of deck enamel or urethane; concrete floors should be sealed with deck enamel.

l. As a variety of conditions exist in ranges, unique situation may arise and specific written guidance from your Regional Industrial Hygiene Office may be required.

m. Any cleaning activities must be under the supervision by a trained and competent personnel IAW with OSHA and other nationally accepted standards and the work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less important than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).

3-3. Cleaning Stored Contaminated Equipment

a. Equipment contaminated (sample result is higher than 200 ug/ft²) with lead dust must be decontaminated before it is removed from the range.

b. Equipment located near the bullet trap and firing line should be cleaned first and then removed. The cleaning method depends on the size of the equipment and the material it is comprised of, i.e. metal, wood, concrete, porous, non-porous, smooth or rough finish etc. However, either HEPA vacuum or the wet wipe method will be used. Refer to paragraph 3-2 for additional guidance.

c. Every attempt should be made to clean and reclaim items since disposing of equipment, as hazardous waste is costly and wasteful. Only as a last resort will the item be discarded as hazardous waste. Porous items, such as office partitions and carpet that were present during firing should be considered grossly contaminated and be discarded unless analysis proves otherwise. Consult your State Environmental Office for the proper hazardous waste disposal methods.

3-4. Contaminated Sand and Lead Waste

Consult your State Environmental Office for specific disposal guidance to ensure compliance with local laws and regulations.

3-5. Range Rehabilitation

This chapter applies to all IFRs that have been identified as candidates for rehabilitation. It provides further guidance for cleaning and/or sampling that might be required prior to the start of rehabilitation.

a. The portion(s) of the range to under go rehabilitation must be sampled to determine the level of lead contamination. Wipe samples will be taken per the established sampling protocol. See Appendix B.

b. All personnel involved in range rehabilitation will wear a NIOSH approved respirator (P-100) and proper personal protective equipment as prescribed in paragraph 2-5 above.

c. Prior to the start of rehabilitation, the environmental office must be notified to determine the disposition of any debris containing hazardous materials (lead).

d. Supervision shall be by a person who is certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer.

3-6. Conversion of Indoor Firing Ranges

Prior to the start of decontamination, employers must ensure that all procedures to be used comply with Federal, State, and local regulations. To ensure that all lead contamination is eradicated, the following procedure is established.

a. The State shall follow the project approval process as delineated in NGR 420-10 (or NGR 415-5 if the use of the military construction appropriation is required).

b. All ranges slated for conversion will be inspected and evaluated by the NGB Regional Industrial Hygiene Office.

- c. All equipment stored in the range, if applicable, prior to the start of decontamination must be sampled, decontaminated, re-sampled and removed or turned in as lead contaminated material.
- d. All acoustical tiles and/or sound proofing material (if applicable) must be removed and turned in as lead contaminated material through the environmental office.
- e. The bullet trap, target retrieval system and firing line stations must be removed and turned in as lead containing material through the environmental office.
- f. Light fixtures and ventilation system grills must be removed and decontaminated.
- g. Ventilation system ducts need to be decontaminated or removed and replaced.
- h. The exhaust fans and/or the complete ventilation air-handling unit (if applicable) must be decontaminated or removed to include roof fans.
- i. Cover all openings of any component previously decontaminated prior to start of interior decontamination of the firing range.
- j. Prior to start of washing, the interior of the range should be vacuumed with a HEPA filtered vacuum. The range should be washed using a cleaning solution of hot water and Spic and Span in five gallons of hot water. A progression of cleaning from top to bottom, and from back to front should be used. All surface areas of the range must be cleaned. Mix new solutions of water frequently. Washing will require dual containers of water; one container for wetting the applicators (mops, brushes, etc.), and the other container for rinsing the applicators. *Properly dispose of all hazardous waste and do not place any lead contaminated waste into the sewer system or onto the ground.* Mop heads, sponges and rags will be discarded as hazardous waste following decontamination of the range. After completion of decontamination, and prior to taking clearance samples, the ventilation system must be run for a period of 36 hours. Wipe clearance samples will be taken from ceiling, walls and floors. The range will be considered clean if no clearance sample is greater than 200 ug/ft², if any sample is above 200 ug/ft², the range is not considered clean, the range will need to be re-washed until clearance samples are below 200 ug/ft².
- k. The regional industrial hygienist will do quality assurance sampling as needed.
- l. After obtaining clearance, the walls of the range will be coated with a sealant (Not Paint), which is smooth, wood floors will receive a coat of deck enamel or urethane, concrete floors will be sealed with deck enamel. After sealing, floors will be tiled or covered with linoleum.
- m. As a variety of conditions exist in ranges, unique situations may arise and specific written guidance from the Regional Industrial Hygiene Office may be required.
- n. All personnel involved in the decontamination/conversion of IFRs as a minimum will be provided with the following personal protective equipment.
- (1). Full Face air purifying respirator with HEPA cartridges. The requirements outline in 29 CFR 1910.134, must be met prior to placing workers in respiratory protection.
 - (2). Individuals will be provided personal protective equipment as required per paragraph 2-5, this pamphlet.
- o. Any conversion must be supervised by a person certified to perform inspections, evaluations, and determinations of IFRs IAW with OSHA standards, other nationally accepted standards, and accepted IH practices for maintenance, cleaning, conversion, ventilation, and air sampling of IFRs. All work shall be according to current industry engineering standards under the control of the State Construction and Facilities Management Officer. Cleaning must recognize that there likely will be "background" lead presence in the readiness center totally independent of the existence of an indoor range and that the method of cleaning is less important than achieving the goal of less than 200 micrograms (40 micrograms in the case of child exposure).
- p. After conversion, lead testing shall continue on an annual basis to verify that no lead migration from the substrate is occurring.

**Appendix A
References**

**Section I
Required Publications**

There are no entries in this section

**Section II
Related Publications**

ASTM E1792-03
Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34
The Respiratory Protection Program

AR 40-5
Preventive Medicine

DODI 6055.5
Industrial Hygiene and Occupational Health

DOD 6055.5-M
Occupational Medical Surveillance Manual

29 CFR, Part 1910
Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130
Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health, Education and Welfare

NGR 385-15
Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard National Guard Indoor Firing Ranges (IFRs).

NGR 415-5
Army National Guard Military Construction Program Development and Execution

NGR 420-10
Construction and Facilities Management Office Operations

Technical Manual, 5th Edition
Occupational Safety and Health Administration, Department of Labor

**Section III
Prescribed Forms**

There are no entries in this section

**Section IV
Referenced Forms**

There are no entries in this section

**Appendix B
Protocol for Collecting Wipe Samples**

B-1. If multiple samples are to be collected at the work site, prepare a rough sketch of the area(s) or room(s), which are to be wipe sampled.

B-2. A new set of clean, impervious gloves should be used for each sample to avoid contamination of the media by previous samples and to prevent contact with the substance.

B-3. Wipe Samples

- a. If using Ghost Wipes™, tear open the individually sealed package. Remove the moistened wipe. Unfold the wipe.
- b. If using a dry media such as MCE or Whatman™ filter, moisten the filter with distilled or deionized water prior to sampling.

B-4. Place a 10 centimeter by 10 centimeter template on the area to be wiped.

B-5. Apply uniform firm pressure while wiping the area inside the template.

B-6. To ensure that all portions of the partitioned area are wiped, start at the outside edge and progress toward the center making concentric squares decreasing in size.

B-7. After collecting a sample, fold the filter or wipe inward and place into a container and number it. Note the number at the sample location on the sketch.

B-8. At least one blank filter treated in the same fashion but without wiping, should be submitted to the laboratory.

**Appendix C
Sampling Strategy for Collection of Wipe Samples**

C-1. Prior to cleaning the ranges, three samples must be collected and analyzed for total lead dust on each surface, i.e., floor, ceiling, bullet trap, and wall to include the plenum wall, if applicable. In addition, a total of three samples should be collected from areas which have been least disturbed by airflow. Established walkways should be avoided.

C-2. Samples should be collected from different areas of the range. A grid system should be utilized. Each range surface areas should be divided evenly into 3 by 3 sections. Samples should not be collected from only one section of a wall or end of the building.

Glossary

**Section I
Abbreviations**

ARNG
Army National Guard

CFR
Code of Federal Regulations

HEPA
High Efficiency Particulate Air

IFR
Indoor Firing Range

NIOSEH
National Institute for Occupational Safety and Health

OSHA
Occupational Safety and Health Administration

ug/ft²
Micrograms per square foot

**Section II
Terms**

Air monitoring
The sampling for and measuring of pollutants in the atmosphere.

Breathing zone
The imaginary globe of two feet radius surrounding the head

General area
Collection of and later analysis of airborne contaminants in a given work environment. As the sampling pump and collection media are not attached to a worker, the concentrations found represent average concentrations in that area but may not be representative of the actual exposure of the worker.

HEPA
Refers to high efficiency particulate air filter systems capable of capturing up to 99.97 percent of particles 0.3 microns in size or larger.

Lead-Contaminated Range
It is assumed that all IFRs, which have been fired in, are lead-contaminated.

Respirator
A device designed to provide the wearer with respiratory protection against inhalation of airborne contaminants.

Wipe Sample
The terms wipe, swipe, or smear samples are used synonymously to describe the techniques utilized for assessing lead surface contamination.

ATTACHMENT 3

Health & Safety Aspects to Consider

Health & Safety Aspects to Consider

Project Goal: To ensure that former National Guard Armories are free of lead dust. Specifically, indoor firing ranges (IFR's) and other areas that contain lead contamination.

Please Note: the following information is from the Departments of the Army and the Air Force, National Guard Bureau, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges (Attachment 2).

Health and Medical Aspects

Health Effects

29 Code of Federal Regulations (CFR) 1910.1025, Appendix A, identifies lead as a highly toxic metal. Elemental lead is indestructible and common in the environment. Lead can enter the body by inhalation (breathing) or ingestion (eating). In addition, lead is a cumulative poison. It accumulates in the blood, bones, and organs, including the kidneys, brain and liver. Effects include nervous and reproductive system disorders, delays in neurological and physical development, cognitive and behavioral changes, and hypertension. Symptoms include loss of appetite, difficulty sleeping, irritability, fatigue, headache, and inability to concentrate. It can stay in the bones for decades. Worker awareness and training are important to ensure that employees can recognize the symptoms of exposure and get prompt medical attention.

Medical Surveillance for occupational Exposure to Lead

- a. 29 CFR 1910.1025(j)(i-ii), Medical Surveillance - General: "The employer shall institute a medical surveillance program for all employees who are or may be exposed above the action level for more than 30 days per year. The employer shall assure all medical examinations and procedures are performed by or under the supervision of a licensed physician."
- b. The DOD 6055.5-M, Occupational Medical Surveillance Manual - Table 2-I lists medical surveillance criteria for employees "who are or may be exposed above the action level for 30 days/year."

Personal Protective Equipment

29 CFR 1910.1025(f)(2), for housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against dust, fume, and mist by the National Institute for Occupational Safety and Health (NIOSH), under the provision of 42 CFR part 84. The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134(b), (d), (e), and (f). As a minimum, personnel conducting the decontamination of the range shall be provided with the following personal protective equipment.

a. Under 29 CFR 1910.1025 (g). For employees engaged in range rehabilitation and/or range conversion, the employer shall provide at no cost to the employee, and ensure that the employee uses appropriate protective work clothing and equipment such as, but not limited to:

- (1) Protective coveralls with hood and shoe covers or disposable Tyvek™ full body suit.
- (2) Disposable rubber gloves; and disposable shoe coverlets (If necessary).
- (3) Full-face air purifying respirator with P-100 cartridges.

- b. The employer shall provide the clothing required in a clean and dry condition at least daily to employees engaged in the conversion of IFRs.
- c. The employer shall provide for the cleaning, laundering, or disposal of used or contaminated protective clothing and equipment.
- d. The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas designated for that purpose (Change Areas or Change Rooms).
- e. The employer shall ensure that contaminated protective clothing that is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area that seals sufficiently enough to prevent dispersion of lead dust.
- f. The employer shall further inform in writing any person who cleans or launders protective clothing or equipment of the potentially harmful effects of exposure to lead.
- g. The employer shall ensure that the containers of contaminated protective clothing and equipment are labeled as follows: ***CAUTION: CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.***

Education, Maintenance, Cleaning and Conversion

Worker Education

a. 29 CFR 1910.1025, Appendix 13, requires an information and training program for **all employees exposed** to lead above the action level or who may suffer skin or eye irritation from lead. The program must inform the employees of the specific hazards associated with their work

environment, protective measures which can be taken, the danger of lead to their bodies (including their reproductive systems), and their rights under the standard. In addition you must make readily available to all employees, including those exposed below the action level, a copy of this standard and its appendices. This training program shall be repeated annually for personnel in range cleanup operations.

b. The supervisor shall ensure that each individual employee is informed of the following:

- (1) The content of the standard and its appendices.
- (2) The specific nature of operations that could result in exposure to lead above the action level.
- (3) The purpose, proper selection, fitting, use, and limitations of respirators.
- (4) The purpose and a description of medical surveillance program.
- (5) Eating and drinking are prohibited in lead contaminated areas.
- (6) Smoking and smoking materials shall not be permitted in contaminated areas.
- (7) Employees must wash their hands and other exposed skin whenever they leave the work area.
- (8) The engineering controls and work practices associated with the individual's job assignment.
- (9) The contents of any compliance plan in effect.
- (10) Instructions to employees that chelating agents should not routinely be used to remove lead from their bodies and should not be used at all except under the direction of a licensed physician.

REFERENCES

Section I Required Publications

There are no entries in this section

Section II Related Publications

ASTM E1792-03

Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

AR 11-34

The Respiratory Protection Program

AR 40-5
Preventive Medicine

DODI 6055.5
Industrial Hygiene and Occupational Health

DOD 6055.5-M
Occupational Medical Surveillance Manual

29 CFR, Part 1910
Occupational Safety and Health Administration, Department of Labor

National Institute for Occupational Safety and Health (NIOSH) 76-130
Lead Exposure and Design Considerations for Indoor Firing Ranges, Department of Health,
Education and Welfare

NGR 385-15
Policy and Responsibilities for Inspection, Evaluation and Operation Army National Guard
National Guard Indoor Firing Ranges (IFRs).

NGR 415-5
Army National Guard Military Construction Program Development and Execution

NGR 420-10
Construction and Facilities Management Office Operations

Technical Manual, 5th Edition
Occupational Safety and Health Administration, Department of Labor Section III

ATTACHMENT 4

DEQ Approved Lead-Based Paint Encapsulants and Sealant Specifications

Lead-Based Paint Encapsulants

Encapsulant Manufacturer	Encapsulant Product(s)
Coronado Paint Company	LEAD BLOCK™
Dumond Chemicals	LEAD STOP™
Dynacraft Industries, Inc.	Back to Nature Protect-A-Coat
Encap Systems Corporation	EncapSeal™ I
Encap Systems Corporation	EncapSeal™ II
Fiberlock Technologies, Inc.	Child GUARD interior/exterior
Fiberlock Technologies, Inc.	L-B-C® Type III
Global Encasement, Inc.	LeadLock™
Grace Construction Products	Lead Seal®
Grace Construction Products	Barrier Coat® II
Insl-x Products Corporation	INSL-CAP™
SAFE Encasement Systems	SE-120 Protective Skin
Specification Chemicals, Inc.	NU-WAL® #2500 Coating

SECTION 07920 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. **Submittals: Product Data.**
- B. **Warranty: Warranty materials and workmanship of sealing against leaks, adhesion, and cohesive failure for a period of two years from the date of substantial completion.**
- C. **References:**
 - 1. **American Society for Testing and Materials**
 - a) **ASTM C790 - Recommended practices for use of latex sealing compounds.**
 - b) **ASTM C920 - Elastomer Joint Sealants.**
 - 2. **Federal Specifications**
 - a) **FS TT-S-00230C (2), Sealing Compound, Elastomeric Type, Single Component (for caulking, sealing and glazing in buildings and other structures).**
 - b) **FS TT-S-00227B (3), Sealing Compound, Elastomeric Type, Multi-component (for caulking, sealing and glazing in buildings and other structures).**

PART 2 - PRODUCTS

2.1 JOINT SEALANTS

- A. **Compatibility: Provide joint sealants, joint fillers, and other related materials that have been tested and found compatible with one another and with joint substrates under service and application conditions.**
- B. **Interior Sealant: Provide ASTM C 834. If no color is specified, use Gray. Location(s) of sealant for the following:**
 - 1. **Small voids between walls or partitions and adjacent door frames, and similar items.**
 - 2. **Perimeter of frames at doors, windows, and access panels which adjoin exposed interior concrete and masonry surfaces.**
- C. **Exterior Sealant: Provide ASTM C 920, polyurethane or polysulfide, Type M, Grade NS, Class 25, Shore A hardness of 20-40. If no color is specified, use Gray. Location(s) of sealant for the following:**
 - 1. **Joints and recesses formed where frames and vents adjoin masonry, concrete, or metal frames. Use sealant at both exterior and interior surfaces of exterior wall penetrations. Color to match adjacent surface.**

2.2 ACCESSORIES

- A. **Primers: Provide a nonstaining, quick-drying type and consistency recommended by the sealant manufacturer for the particular application.**
- B. **Bond Breakers: Provide the type and consistency recommended by the sealant manufacturer to prevent adhesion of the sealant to backing or to bottom of the joint.**
- C. **Cleaning Solvents: Provide type(s) recommended by the sealant manufacturer, except for aluminum and bronze surfaces that will be in contact with sealant.**

PART 3 - EXECUTION

3.1 PREPARATION

- A. **Clean surfaces from dirt, frost, moisture, grease, oil, wax, lacquer, paint, or other foreign matter that would tend to destroy or impair adhesion. Remove oil and grease with solvent. Surfaces must be wiped dry with clean cloths. When resealing an existing joint, remove existing caulk or sealant prior to applying new sealant. For surface types not listed below, contact sealant manufacturer for specific recommendations.**
 - 1. **Steel Surfaces: Remove loose mill scale by sandblasting or, if sandblasting is impractical or would damage finish work, scraping and wire brushing. Remove protective coatings by sandblasting or using a residue-free solvent.**
 - 2. **Aluminum or Bronze Surfaces: Remove temporary protective coatings from surfaces that will be in contact with sealant. When masking tape is used as a protective coating, remove tape and any residual adhesive just prior to sealant application. For removing protective coatings and final cleaning, use nonstaining solvents recommended by the manufacturer of the item(s) containing aluminum or bronze surfaces.**
 - 3. **Concrete and Masonry Surfaces: Where surfaces have been treated with curing compounds, oil, or other such materials, remove materials by sandblasting or wire brushing. Laitance, remove efflorescence and loose mortar from the joint cavity.**

4. **Wood Surfaces:** Keep wood surfaces to be in contact with sealants free of splinters and sawdust or other loose particles.
- B. Do not add liquids, solvents, or powders to the sealant. Mix multi-component elastomeric sealants in accordance with manufacturer's instructions.

3.2 INSTALLATION

- A. **Joint Width-to-Depth Ratios:** Install per manufacturer's recommendation or as described below, whichever is more stringent.

1.	Acceptable Ratios:	<u>Minimum</u>	<u>Maximum</u>
a)	For metal, glass, or other nonporous surfaces:		
(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
(2)	Over 1/4 inch (6 mm)	1/2 of width	Equal to width
b)	For wood, concrete, masonry, or stone:		
(1)	1/4 inch (6 mm) (minimum)	1/4 inch (6 mm)	1/4 inch (6 mm)
(2)	Over 1/4 inch (6 mm) to 1/2 inch (13 mm)	1/4 inch (6 mm)	Equal to width
(3)	Over 1/2 inch (13 mm) to 2 inch (50 mm)	1/2 inch (50 mm)	5/8 inch (16 mm)
(4)	Over 2 inch (50 mm)	(As recommended by sealant mfr.)	
2.	Unacceptable Ratios: Where joints of acceptable width-to-depth ratios have not been provided, clean out joints to acceptable depths and grind or cut to acceptable widths without damage to the adjoining work. Grinding is not required on metal surfaces.		

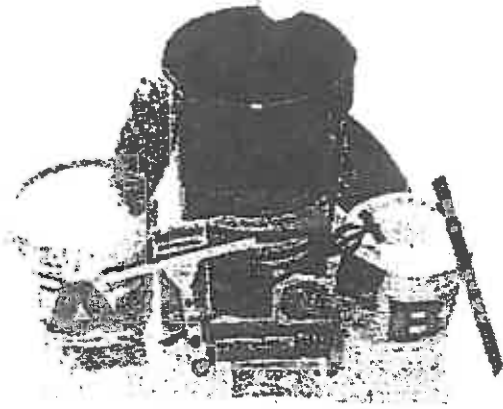
- B. **Masking Tape:** Place masking tape on the finish surface on one or both sides of a joint cavity to protect adjacent finish surfaces from primer or sealant smears. Remove masking tape within 10 minutes after joint has been filled and tooled.
- C. Immediately prime prior to application of the sealant, clean out loose particles from joints. Where recommended by sealant manufacturer, apply primer to joints in concrete masonry units, wood, and other porous surfaces in accordance with sealant manufacturer's instructions. Do not apply primer to exposed finish surfaces.
- D. Provide bond breakers to the back or bottom of joint cavities, as recommended by the sealant manufacturer for each type of joint and sealant used, to prevent sealant from adhering to these surfaces. Carefully apply the bond breaker to avoid contamination of adjoining surfaces or breaking bond with surfaces other than those covered by the bond breaker.
- E. Provide a sealant compatible with the material(s) to which it is applied. Do not use a sealant that has exceeded shelf life or has jelled and can not be discharged in a continuous flow from the gun. Apply the sealant in accordance with the manufacturer's printed instructions with a gun having a nozzle that fits the joint width. Force sealant into joints to fill the joints solidly without air pockets. Tool sealant after application to ensure adhesion. Make sealant uniformly smooth and free of wrinkles. Upon completion of sealant application, roughen partially filled or unfilled joints, apply sealant, and tool smooth as specified. Apply sealer over the sealant when and as specified by the sealant manufacturer.
- F. **Thresholds:** Place double band of sealant under and along all sides of all exterior thresholds.

END OF SECTION 07920

Epoxy-Coat 3-Gallon Interior High Gloss Clear Garage Floor Coating Kit

Item #: 373342 | Model #: SK-0000

Be the first to



Description

3-Gallon Interior High Gloss Clear Garage Floor Coating Kit

- Commercial/industrial grade
- 100% solids
- Over 30 years experience with automotive, industrial, commercial and government customers
- After-hours, live technical support
- Over 3 times stronger than concrete
- 10.3 times more durable than water-based epoxies
- 4.8 times thicker than water-based epoxies
- Self-leveling

Specifications

Warranty	Lifetime	Combustible	No
Sheen/Finish	High Gloss	Waterproof	Yes
Paint Color	Clear	Number of Coats Recommended	1.0
Unit of Measure	Gallon (s)	Soap and water clean-up	No
Unit of Measure Quantity	3.0	Low-odor formula	Yes
Coverage (Sq. Feet)	500.0	Mildew-resistant finish	Yes
Base Material	Epoxy	Scrubable and washable finish	Yes
Color Family	Clear	Stain-Resistant	Yes
Where to Use	Interior	Fade-Resistant	Yes
Tintable	No	UV-resistant	Yes
Primer Recommended	No	Type	Other
Dry To Touch	18 Hours	Paint and Primer in One	Yes
Flammable	No		

KELLY-MOORE PAINTS INDUSTRIAL COATINGS HIGH PERFORMANCE SYSTEMS

KM-669 Acrylic Sealer

THIS PRODUCT MAY NOT BE AVAILABLE IN SOME AREAS DUE TO VOC REGULATIONS
Contact your Kelly-Moore representative for more information

Product Description

A one component, solvent borne, high gloss, clear acrylic sealer designed for use on concrete, masonry, and brick. Dustproofs concrete by penetrating surface pores leaving a tough, durable film.

Performance Features

- Non-Yellowing
- Excellent Adhesion to Concrete
- Good Water & Salt Chemical Resistance
- Good Abrasion Resistance
- Can be Sprayed, Padded or Rolled

Product Specifications

Resin Type	Acrylic
Color Range	Clear
Finish	High Gloss
Drying Time	8 hours to recoat
Practical Coverage	250-450 Sq. Ft. / Gallon
Recommended Dry Film Thickness	1.2 - 2.2 mils per coat
Solids By Volume	35%
Sizes	Five gallon pails
V.O.C.	560 Grams per liter
Clean Up	KM-S-74 or KM-SA-50

Surface Preparation

WARNING! If you scrape, sand or remove old paint from any surface, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to www.epa.gov/lead.

Surface Preparation:

Remove all dirt, grease, oil, soil, chemical contaminants, and other matter. Allow surface to dry.

Application Procedure:

When mixing, use an EXPLOSION PROOF SLOW SPEED DRILL WITH A JIFFY MIXER. Apply a uniform wet film, do not puddle material. Do not cover more area than can be worked in 10 minutes due to fast dry time. When spraying, use a low pressure machine. Two coats may be necessary depending on porosity or type of service.

For safety and product curing, proper ventilation is necessary throughout application and cure.

Dry Times: 8 hours

See Precautions and Limited Warranty next page

KM-669 (cont.)

Precautions

KM-669 is Flammable. KM-669 contains flammable solvents. Keep away from all sources of ignition during mixing, application, and cure. In confined areas, provide adequate forced air ventilation. The use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream and protective clothing is a recommended standard practice when spraying coatings.

Proper Disposal

For proper disposal of excess material, please contact your local city or county waste management agency.

Limited Warranty: The statements made on this bulletin, product labels or by any of our agents concerning this material are given for information only. They are believed to be true and accurate and are intended to provide a guide to approved construction practices and materials. As workmanship, weather, construction equipment, quality of other materials and other variables affecting results are all beyond our control, Kelly-Moore Paint Company, Inc., does not make nor does it authorize any agent or representative to make any warranty of MERCHANTABILITY OR FITNESS for any purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Kelly-Moore's quality control standards. Any liability whatsoever of Kelly-Moore Paint Company, Inc. to the buyer or user of this product is limited to the purchaser's cost of the product itself.

SEE MATERIAL SAFETY DATA SHEETS FOR FULL SAFETY PRECAUTIONS.

KM-669 IS FOR PROFESSIONAL USE ONLY

KM-669 IS FOR INDUSTRIAL USE ONLY

KEEP AWAY FROM CHILDREN

KELLY-MOORE PAINT COMPANY INC. • 987 COMMERCIAL ST. • SAN CARLOS, CA 94070

Technical Assistance 1-888-MR-PAINT www.kellymoore.com

MATERIAL SAFETY DATA SHEET

For Coatings, Resins & Related Materials

Section I

Manufactured For: Kelly-Moore Paints
Address: 987 Commercial Street
San Carlos, CA 94070

Prep Date: 07/28/06

Emergencies Involving Spills, Leaks,
Fires, Exposure, Or Accident Contact
Chemtrec: 1-800-424-9300

Product Class: Acrylic Lacquer Sealer
Trade Name: KM-669 CLEAR
H.M.I.S. Codes: H F R P
2* 3 0 -

Information Phone: 1-888-677-2468

Section II - HAZARDOUS INGREDIENTS

Ingredient	C.A.S.#	Weight Percent	Occup. Exposure Limits		Vapor Pressure	
			OSHA PEL	ACGIH TLV	mm Hg	Temp.F
Acrylic Resins	Mixture	30-40		Not Established		Not Determined
*Xylene	1330-20-7	40-50	100 ppm	100 ppm	5.1	68
*Ethyl Benzene	100-41-4	15-20	100 ppm	100 ppm	7.1	68

*Indicates toxic chemical(s) subject to reporting requirements of Section 313 of Title III and of 40 CFR 372.

Section III - PHYSICAL DATA

Boiling Range (Deg. F): 240°
Evaporation Rate: Slower than Ether
Percent Volatile By Volume: 70 ± 3%

Vapor Density: Heavier than air

Weight Per Gallon (lbs.): 7.75 ± .25

Section IV - FIRE & EXPLOSION HAZARD DATA

Flash Point (Deg. F): 80°

Lower Explosive Limit: 1.0

Extinguishing Media: Foam, alcohol foam, CO2, dry chemical, water spray

OSHA Flammability Classification: Flammable Liquid IC

Special Firefighting Procedures: Wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool. Water may be ineffective as an extinguishing agent.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation to ignition sources at locations distant from material handling point. Pressure may build up in containers and create an explosion hazard.

KM-669 CLEAR

Section V - HEALTH HAZARD DATA

THIS PRODUCT IS FLAMMABLE

Effects Of Overexposure:

Eyes: Irritation, burning, tearing and redness.

Skin: Moderate irritation or defatting of skin upon prolonged or repeated contact.

Ingestion: Abdominal pain, nausea, vomiting and diarrhea.

Inhalation: Excessive exposure to vapors can cause headache, dizziness, uncoordination, nausea and loss of consciousness.

Emergency & First Aid Procedures:

Eyes: Flush with water for 15 minutes.

Skin: Remove contaminated clothing; wash skin with soap and water.

Ingestion: Do not induce vomiting. Get medical attention immediately.

Inhalation: Move to fresh air; aid breathing if necessary.

In all cases, consult a physician for best treatment.

Chemical listed as carcinogen or potential carcinogen:

NTP: No IARC: No OSHA: No

Section VI - REACTIVITY DATA

Stability: Product Stable.

Conditions to Avoid: All sources of ignition.

Incompatibility (Materials to Avoid): Oxidizing agents, strong acids & bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides and organic compounds.

Hazardous Polymerization: Will Not Occur.

Section VII - SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled: Dike spill area; Absorb spill with inert absorbent material. Place in sealed metal containers for proper disposal.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

Section VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use a NIOSH/MSHA jointly approved respirator.

Ventilation: Use mechanical ventilation.

Protective Gloves: Neoprene or rubber.

Eye Protection: Chemical splash goggles.

Other Protective Equipment: Protective clothing, barrier cream, eye bath, safety shower.

Section IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storing: Store in dry area. Keep away from open flames and high temperatures.

Other Precautions: Minimize contact. Avoid breathing vapors. Practice good industrial hygiene and safe working practices.

State and Local Regulations

California Proposition 65

This product contains the following substances known to the State of California to cause cancer, birth defects or other reproductive hazards: Benzene, Toluene.

ATTACHMENT 5

Door Scope of Work Including Measurements and Specifications

Guthrie Armory Door Measurements And Scope of Work

- **Door measurements are listed as approximate Width X Height; Contractor to field verify.**
 - **All removed doors will be properly disposed.**
 - **All removed lead-based paint will be properly disposed.**
 - **Attached is a Guthrie armory Floor Plan with designated door numbers that correspond with the numbers on this Scope of Work.**
 - **Specifications for replacement doors are attached.**
-
1. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous gear hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'

 2. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'4" X 7'

 3. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'

 4. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'8" X 7'

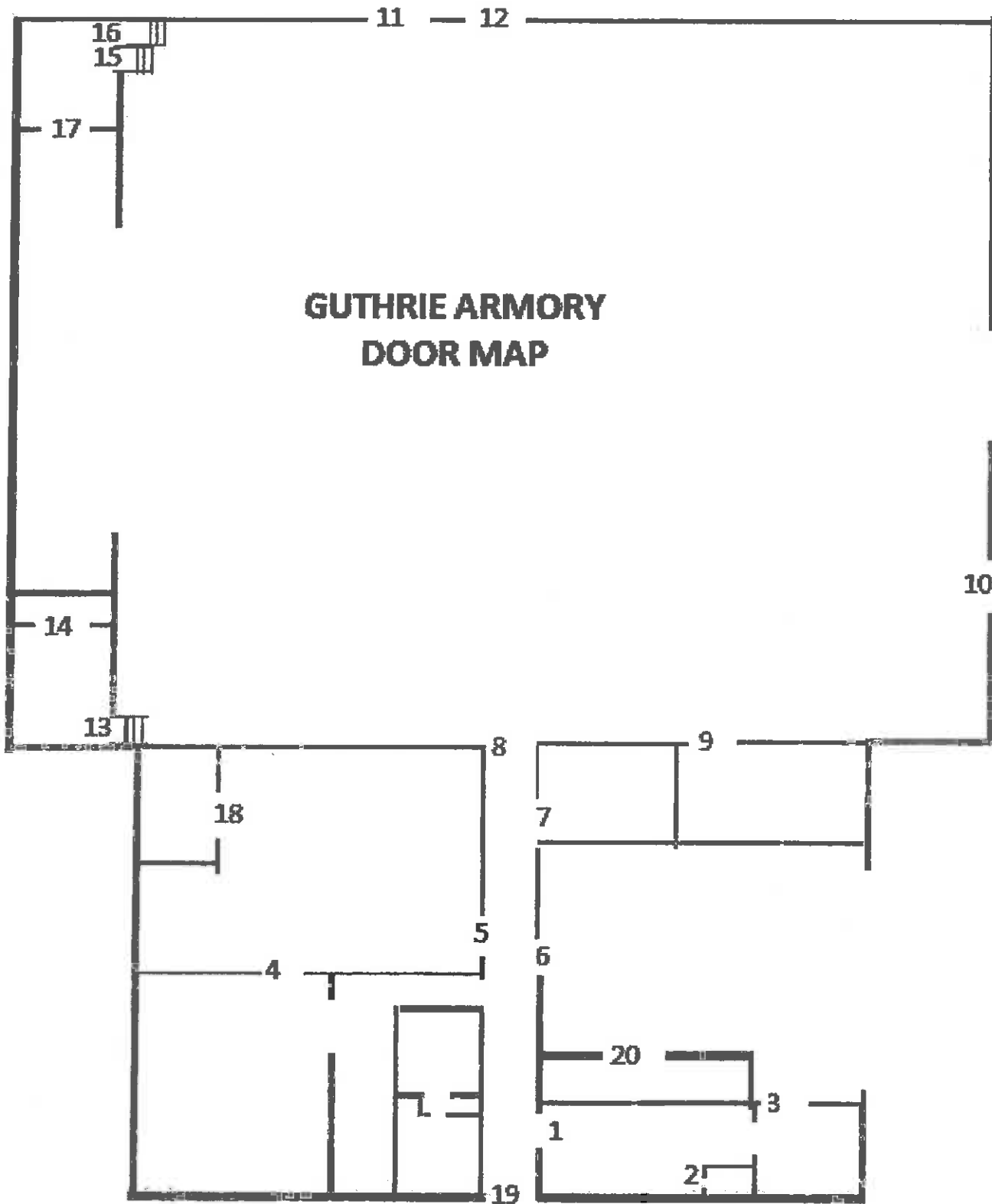
 5. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 4' X 7'

 6. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 4' X 7'

7. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
8. Remove double doors. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Double Door Measurements – 6' X 7'
9. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
10. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
11. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
12. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
13. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
14. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
15. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
16. Remove and replace door and door frame.
Door Measurements – 3' X 7'
Approximate Opening Size – 3'5" X 7'6"
17. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'

18. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.
19. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
20. Remove door and frame. Do not replace.

**GUTHRIE ARMORY
DOOR MAP**



NATIONAL GUARD PRODUCTS, INC.

Vinyl Seals

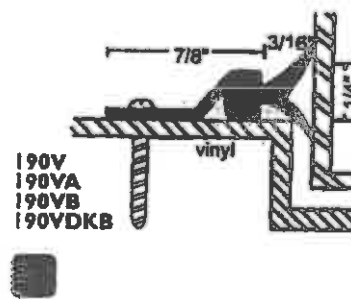
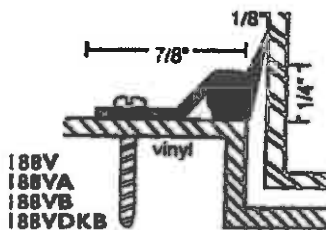
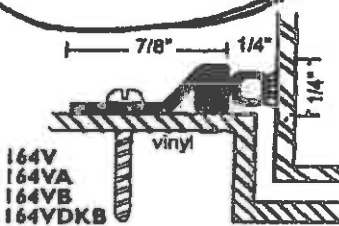
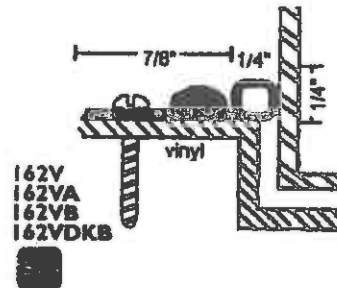
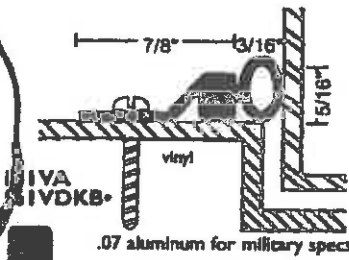
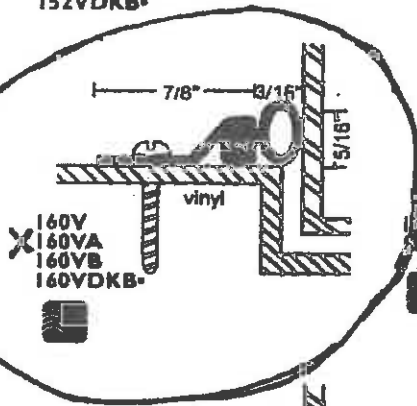
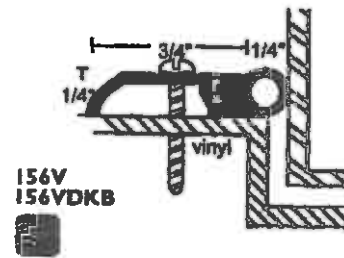
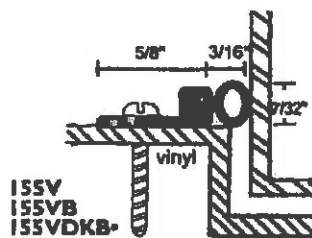
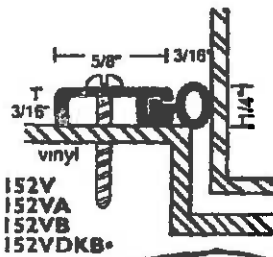
Properties:

- Synthetic polymer: Polyvinyl Chloride
- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0F to 140F
- Plasticizers evaporate with age and exposure to UV, Cold, Heat causing hardening, loss of memory, loss of resilience, cracking and crazing

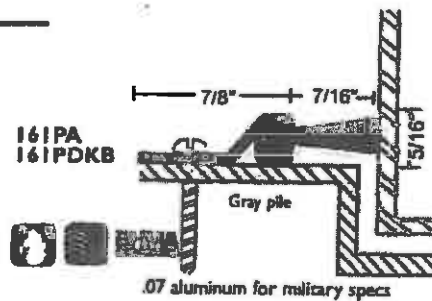
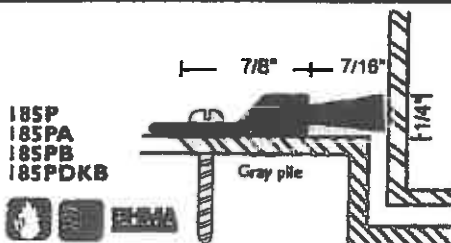
#6 x 3/4" Stainless Steel Sheet Metal Screws furnished
 Screw holes slotted for adjustment

 All vinyl seals this section

A - clear
 B - gold
 DKB - dark bronze
 no suffix - mill
 Vinyl is gray
 (exception: vinyl is black)



Pile Seals



Vinyl Perimeter Seals

Pile Seals



Saddle Thresholds

All thresholds this page

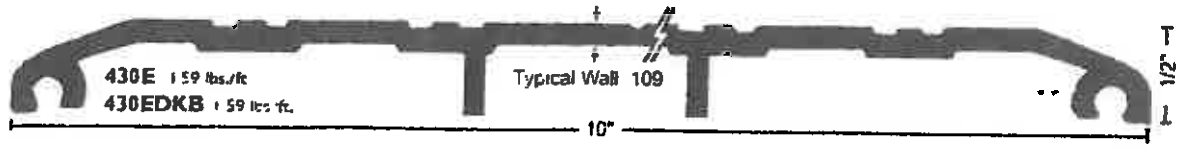
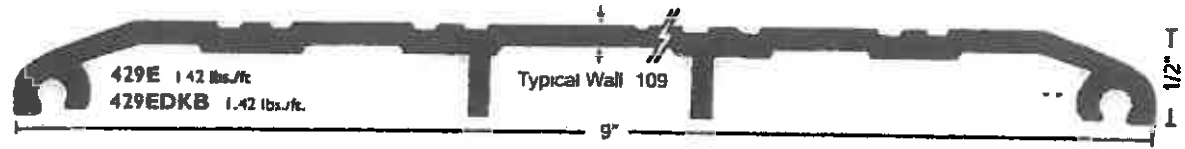
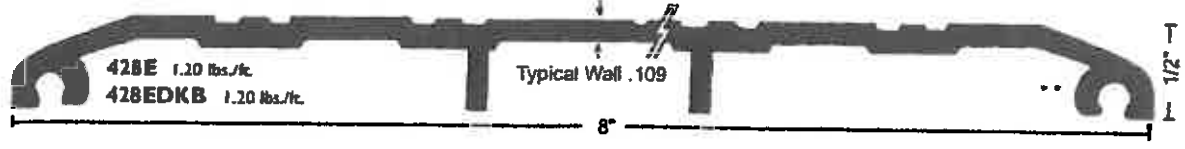
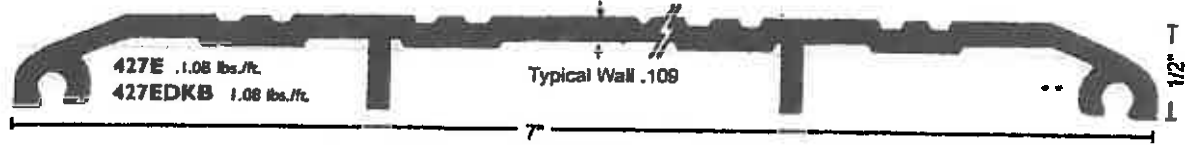
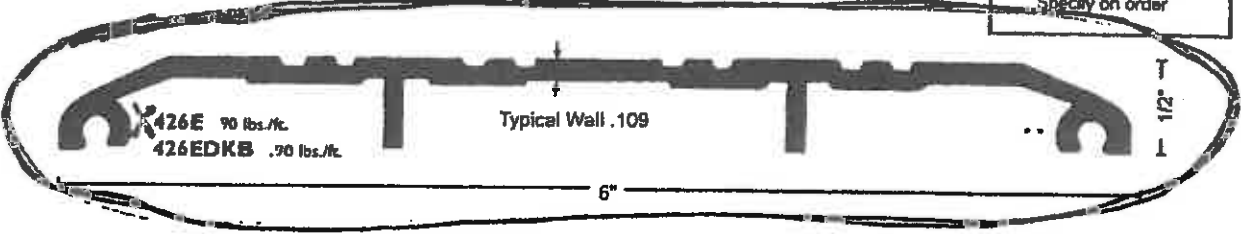
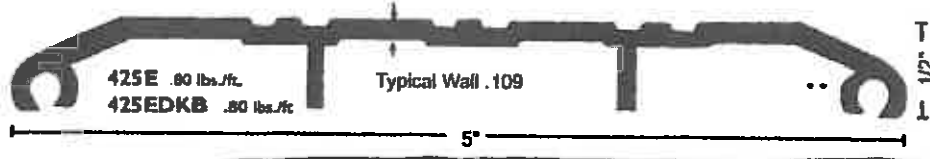
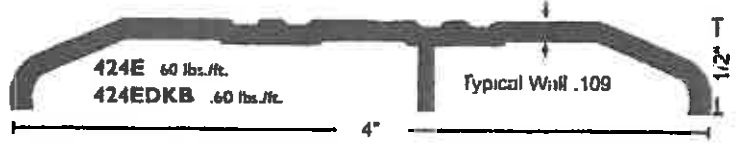
MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish

Slip Resistant SIA Finish

All thresholds are available with our slip resistant, non-skid finish for better traction. Suffix "SIA".

VINYL FOOT SEAL
 used instead of caulking to increase the weather resistance of the threshold. Specify on order.



Specifications

Handing

Keyed functions are reversible. Non-keyed functions are not handed.

Door Thickness

1 1/4" to 1 3/4" (35 mm to 48 mm) standard.
2" (51 mm) to 2 1/2" (64 mm) optional extended inside.

Backsets:

2 3/8" (60 mm) standard. 2 3/4" (70 mm), 3 1/4" (95 mm) and 5" (127 mm) optional.

Fronts

Steel. 1 1/8" x 2 1/4" square corner, beveled, for 2 3/4" backset standard. Optional 1" square corner, 1" radius corner, and non-UL drive-in / round face. For availability with specific backsets, see page 6.

Lock Chassis:

Steel, zinc dichromate plated for corrosion resistance.

Latch Bolts

Brass, chrome plated, 1/2" throw, deadlocking on keyed and exterior functions.

Exposed Trim:

Wrought brass, bronze or stainless steel. Levers are pressure cast zinc, plated to match finish symbols.

Strikes

T-strike 1 1/8" x 2 3/4" (29 mm x 70 mm) x 1 1/4" (29 mm) lip to center with box standard. Optional strikes, lip lengths and ANSI strike box available. See page 7.

Cylinder & Keys

Commercial: 6-pin patented Everest C123 keyway standard with two nickel silver keys per lock.
Residential: 6-pin C keyway, keyed 5-pin.

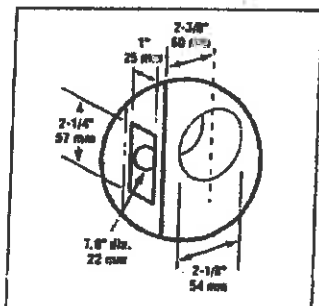
Keying Options:

Interchangeable core and Primus® high security cylinders. Master keying, grand master keying, and construction keying.

Warranty:

Commercial: three-year limited.
Residential: Full mechanical lifetime.

Door Preparation



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 2 strength and operational requirements.

Federal

Meets FF-H-106C.

California State Reference Code

(Formerly Title 19, California State Fire Marshal Standard)

All levers with returns comply; levers return to within 1/2" of door face.

UL / ULC:

All locks listed for A label single doors, 4' x 8'. Letter F and UL symbol on latch front indicate listing. UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



A SERIES

Designs & Finishes



GEORGIAN

Symbol: GEO
Material: Wrought brass
Finishes: 605, 606,
609, 610,
625, 626

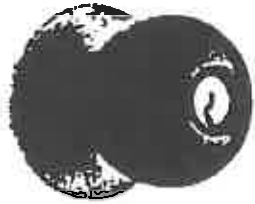
609



LEVON

Symbol: LEV
Material: Pressure cast
zinc lever; wrought brass
or bronze rose
Finishes: 605, 612,
613, 626

605



ORBIT

Symbol: ORB
Material: Wrought brass
or bronze
Finishes: 605, 606, 609,
610, 611, 612, 613,
616, 625, 626

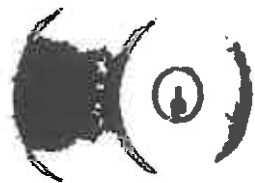
613



PLYMOUTH

Symbol: PLY
Material: Wrought brass,
bronze, or stainless steel
Finishes: 605, 606, 609, 610,
611, 612, 613, 616, 625,
626, 629, 630

605



TULIP

Symbol: TUL
Material: Wrought brass
Finishes: 605, 606,
609, 610,
625, 626

626



*Note: Levon available as
inside trim only on deadlatch
functions. Specify complete
trim application and door
handing when ordering with
deadlatch functions.*

Finishes

- 605 Bright Brass
- 606 Satin Brass
- 609 Antique Brass
- 610 Bright Brass, Blackened
- 611 Bright Bronze
- 612 Satin Bronze
- 613 Oil Rubbed Bronze
- 616 Antique Bronze
- 625 Bright Chromium Plated
- 626 Satin Chromium Plated
- 629 Bright Stainless Steel
- 630 Satin Stainless Steel

Keyed functions available with full size interchangeable core option for Orbit design.

Functions

ANSI A156.2 Series 4000 Grade 2

Non-Keyed Functions

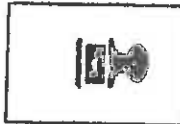
SCHLAGE
A10S ANSI
F75

Passage Latch
Both knobs always unlocked.



A25D

Exit Lock
Blank plate outside. Inside knob always unlocked. Specify door thickness, 1 3/8" or 1 3/4".



A30D F77

Patio Lock
Push-button locking. Turning inside knob or closing door releases button, preventing lock-out.



A40S F76

Bath/Bedroom Privacy Lock
Push-button locking. Can be opened from outside with small screwdriver. Turning inside knob or closing door releases button.



A43D F79

Communicating Lock
Turn-button in outer knob locks and unlocks knob and inside thumbturn.



A170

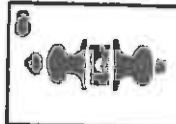
Single Dummy Trim
Dummy trim for one side of door. Used for door pull or as matching inactive trim.



Keyed Functions

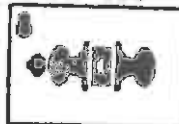
SCHLAGE ANSI
A53PD F109

Entrance Lock
Turn/push-button locking; pushing and turning button locks outside knob requiring use of key until button is manually unlocked.
Push-button locking; pushing button locks outside knob until unlocked by key or by turning inside knob.



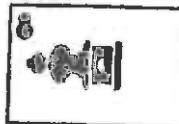
A70PD F84

Classroom Lock
Outside knob locked and unlocked by key. Inside knob always unlocked.



A79PD

Communicating Lock
Locked or unlocked by key from outside. Blank plate inside.



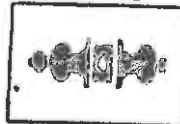
A80PD F86

Storeroom Lock
Outside knob fixed. Entrance by key only. Inside knob always unlocked.



A85PD F93

Hotel/Motel Lock
Outside knob fixed. Entrance by key only. Push-button in inside knob activates visual occupancy indicator, allowing only emergency masterkey to operate. Rotation of inside spanner-button provides lock-out feature by keeping indicator thrown.



Keyed functions available with full size interchangeable core option for Orbit design.

Specifications

Handings

All D-Series lever locksets are non-handed.

Door Thickness

1½" to 2½" (41mm-54mm) standard including Vandlgard® functions.

See accessories (Page 12) for spacers required for 1½" doors.

Backsets

2¼" (70mm) standard. 2¾", 3¼" and 5" (60mm, 95mm, 127mm) optional.

Faceplates

Brass, bronze or stainless steel. 1½" x 2¼" (29mm x 57mm) square corner, beveled.

Lock Chassis

Zinc plated for corrosion resistance.

Latch Bolts

Steel, ½" (12mm) throw, deadlocking on keyed and exterior functions. ¼" (19mm) throw anti-friction latch available for pairs of fire doors.

Exposed Trim

Levers: Pressure cast zinc, plated to match finish symbols.
Roses: Solid brass.

Strikes

ANSI curved lip strike 1¼" x 4¾" x 1¾" lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 11.

Cylinder & Keys

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

Keying Options

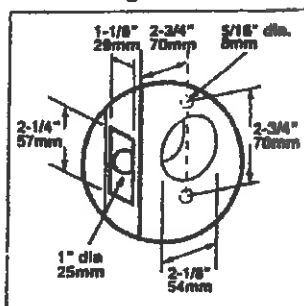
Interchangeable core and Primus® high security cylinders. Master keying, grand master keying and construction keying.

Warranty

Seven-year limited for all functions including Vandlgard®.

Door Preparation

Lever Designs



Certifications

ANSI

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

Federal

Meets FF-H-106C Series 161.

California State Reference Code

(Formerly Title 19, California State Fire Marshal Standard)

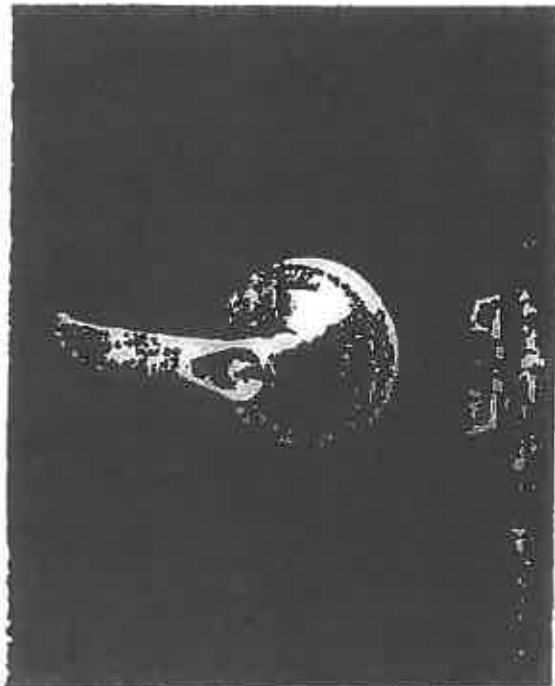
All levers with returns comply; levers return to within ½" of door face.

UL / cUL

All locks listed for A label single doors, 4' x 8'.

Letter F and UL symbol on latch front indicate listing. Electrified functions are UL19X Listed for single point locking applications.

UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.



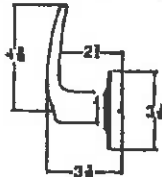
D SERIES LEVERS

Lever Designs & Finishes



ATHENS

Symbol: ATH
Material: Pressure cast zinc lever; wrought brass rose
Finishes: 605, 606, 612, 613, 619, 625, 626



606

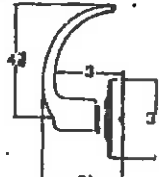


Lever Designs & Finishes



SPARTA

Symbol: SPA (17)
Material: Pressure cast zinc lever; wrought brass rose
Finishes: 605, 606, 612, 613, 619, 625, 626

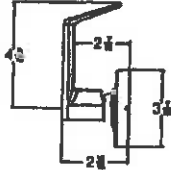


626



RHODES

Symbol: RHO (06)
Material: Pressure cast zinc lever; wrought brass rose
Finishes: 605, 606, 612, 613, 619, 625, 626

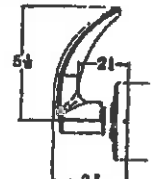


612



OMEGA

Symbol: OME
Material: Pressure cast zinc lever; wrought brass rose
Finishes: 605, 606, 612, 613, 619, 625, 626



619



605
Bright Brass



606
Satin Brass



612
Satin Bronze



613
Oil Rubbed Bronze



619
Satin Nickel

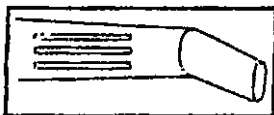


625
Bright Chromium Plated



626
Satin Chromium Plated

Keyed functions available with interchangeable core options. Levers are available for full size and small format interchangeable cores.



TACTILE WARNING (KNURLING)

Change symbol designation as follows:

8AT for Athens
8RO for Rhodes
8SP for Sparta

Finishes

605 Bright Brass
606 Satin Brass
612 Satin Bronze
613 Oil Rubbed Bronze
619 Satin Nickel
625 Bright Chromium Plated
626 Satin Chromium Plated

Only outside lever is knurled unless otherwise specified.

Not available with Omega trim

D SERIES LEVERS

Functions

Non-Keyed Locks

SCHLAGE ANSI

ND10S F75

Passage Latch
Both levers always unlocked.



ND12D F89

Exit Lock
Outside lever always fixed. Inside lever always unlocked.



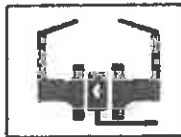
ND12DEL

Electrically Locked (Fail Safe)
Outside lever continuously locked electrically. Unlocked by switch or power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.



ND12DEU

Electrically Unlocked (Fail Secure)
Outside lever continuously locked until unlocked by electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever always free for immediate exit.



ND25D

Exit Lock
Blank plate outside. Inside lever always unlocked.



ND40S F78

Bath/Bedroom Privacy Lock
Push-button locking. Can be opened from outside with small screwdriver. Turning inside lever or closing door releases button.



ND44S

Hospital Privacy Lock
Push-button locking. Unlocked from outside by turning emergency turn-button. Turning inside lever or closing door releases button.



ND170

Single Dummy Trim
Dummy trim for one side of door. Used for door pull or as matching inactive trim.

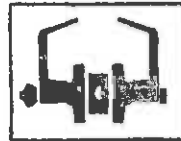


Keyed Locks

SCHLAGE ANSI

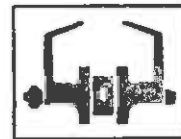
ND50PD F82

Entrance/Office Lock*
Push-button locking. Push-button locks outside lever until unlocked with key or by turning inside lever.



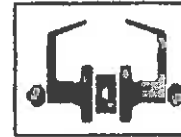
ND53PD F109

Entrance Lock*
Turn/push-button locking; pushing and turning button locks outside lever, requiring use of key until button is manually unlocked. Push-button locking; pushing button locks outside lever until unlocked by key or by turning inside lever.



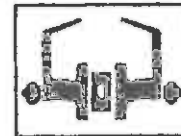
ND60PD F88

Vestibule/Classroom Security Lock*
Latch retracted by key from outside when outside lever is locked by key in inside lever. Inside lever is always unlocked.



ND66PD F91

Store Lock*†
Key in either lever locks or unlocks both levers.



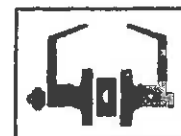
ND70PD F84

Classroom Lock*
Outside lever locked and unlocked by key. Inside lever always unlocked.



ND73PD F90

Corridor Lock*
Outside lever locked by key outside or push-button inside. Push-button released by rotating inside lever or closing door. When outside lever is locked by key, key must be used to unlock it. Inside lever is always unlocked.



OCT 24 2008

* Available functions for small format interchangeable core.

† Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Pemko Manufacturing Company
5535 Distribution Drive
Memphis, TN 38141
Phone: (800) 824-3018
Fax: (800) 243-3656
E-mail: pemkosales@pemko.com
www.pemko.com

**SECTION 08710
DOOR HARDWARE
(CONTINUOUS GEARED DOOR HINGES)**

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Continuous Geared Door Hinges.

Specifier Note: Revise paragraph below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the paragraph below. Add section numbers and titles per CSI *MasterFormat* and specifier's practice. In the absence of related sections, delete paragraph below.

- B. Related Sections:

1. Division 6 Section(s): Wood Frames.
2. Division 8 Section(s): Steel Doors, Wood Doors, Sound Control Doors, Aluminum Frame Storefront Doors.
3. Division 10 Section(s): Compartments and Cubicles, Partitions.
4. Division 13 Section(s): Special Facilities, Integrated Construction, Special Structures, Special Purpose Rooms.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard. It is a listing of all references used in this section.

1.02 REFERENCES

- A. ASTM International:

1. ASTM E2074 Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies.

- B. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):

1. ANSI/BHMA A156.18 Materials and Finishes.
2. ANSI/BHMA A156.26 Standards for Continuous Hinges.

- C. American National Standards Institute/Steel Door Institute (ANSI/SDI):

1. ANSI A250.8/SDI-100 Recommended Specifications for Standard Steel Doors and Frames.

- D. American National Standards Institute/Window and Door Manufacturers Association (ANSI/WDMA):

1. ANSI/WDMA I.S.1-A Architectural Wood Flush Doors.

- E. Federal Government:

1. U.S. Architectural & Transportation Barriers Compliance Board. Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG), 1992.
2. Federal Standard FED-STD-795-1988 (Revised 1989) Uniform Federal Accessibility Standards.

- F. Underwriters Laboratories, Inc. (UL):

1. UL 10B Fire Tests of Door Assemblies.

2. UL 10C Fire Tests of Door Assemblies.

3. UL 752 Bullet Resistant Equipment.

G. International Code Council (ICC):

1. UBC 7-2 Fire Test of Door Assemblies (Positive Pressure).

2. International Building Code (IBC) Code 2000 (Positive Pressure).

3. ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities.

H. British Standards (BS):

1. BS 476 Fire Tests on Building Materials and Structures.

I. National Fire Protection Association (NFPA):

1. NFPA 1 Fire Prevention Code.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties required to link components of a system together and to interface with other systems.

1.03 SYSTEM DESCRIPTION

A. Design Requirements: Provide continuous geared door hinges which have been manufactured, fabricated and installed to meet the following design criteria:

1. Continuous geared configuration, designed to distribute loads uniformly.

2. Identical operation in each leaf, designed to reduce door opening effort.

3. UL labeled for 3 hour fire classification.

4. Durability tested to ANSI/BHMA A156.26 Grade 1, 2, 3.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit manufacturer's product data and installation instructions.

C. Shop Drawings: Provide drawings indicating required component locations, installation interface with adjacent materials, anchorage, fastening and similar information.

D. Samples: Submit one each of manufacturer's standard selection samples.

E. Quality Assurance/Control Submittals: Submit the following:

1. Test Reports: Upon request, submit [Fire] [And] [Durability] test reports from recognized testing laboratory.

2. Certificates: Submit manufacturer's certificate that products meet or exceed specified requirements.

F. Closeout Submittals: Submit the following:

1. Warranty documents specified herein.

Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section and authority having jurisdiction. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

B. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies.]

1. [Code agency name].
 - a. [Report or approval number].
- C. Certifications: [Specify requirement for certifications.].
- D. Field Samples: [Specify requirement for field samples.].
- E. Mock-Ups: [Specify requirements for mock-up.].
 1. Subject to acceptance by owner, mock-up may be retained as part of finish work.
 2. If mock-up is not retained, remove and properly dispose of mock-up.

Specifier Note: Retain paragraph below if preinstallation meeting is required.

- F. Preinstallation Meetings: [Specify requirements for meeting.].

Specifier Note: Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirement Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.

1.07 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

Specifier Note: Coordinate subparagraph below with manufacturer's warranty requirements.

1. Warranty Period: Warranty for life of door opening, beginning with date of substantial completion.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 CONTINUOUS GEARED DOOR HINGES

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain, edit or delete paragraph below to suit project requirements and specifier practice.

- A. Manufacturer: Pemko Manufacturing Company.
 1. Contact: PO Box 3780, 4226 Transport Street, Ventura, CA 93003; Telephone: (800) 283-9988, (805) 642-2600; Fax: (805) 642-4109; E-mail: pemkosales@pemko.com; website: www.pemko.com.
- B. Proprietary Products/Systems: Continuous Geared Door Hinges, including the following:
 1. Continuous Geared PemkoHinges:
 - a. Material: Extruded tempered aluminum.
 - b. Material Standard: 6063-T6 alloy.
 - c. Configuration: Three interlocking extrusions in pinless assembly, installed to full height of door frame.
 - d. Finish (ANSI/BHMA A156.10): [Clear anodized] [Dark anodized] [Gold anodized].
 - e. Type: [Full mortise] [Full surface] [Half surface] [Full mortise residential: 1 3/4 inches (45 mm)] [Full

- mortise residential. inches (35 mm)) [Special full mortise] hrow full mortise].
- f. Length: [79 inches (2007 mm)] [83 inches (2108 mm)] [85 inches (2159 mm)] [95 inches (2413 mm)] [120 inches (3048 mm)].
- g. Hinge Options: [Safety] [Short leaf flush] [Short leaf inset] [Standard] [Safety short leaf inset] [Center pivot].
- h. Electrical Modifications: [Specify electrical modifications.].
- i. Strength: [Standard Duty: 14 bearings each leaf for 83 inch (2108 mm) hinge, minimum door weight 280 lb (127 kg)] [Heavy Duty: 27 bearings each leaf for 83 inch (2108 mm) hinge, minimum door weight 540 lb (245 kg)].
- j. Mortise Fasteners: TEK, #12 × 3/4 inch, FHUC, Phillips head screws.
- k. Fire Label Certification: Comply with ASTM E2074, NFPA 1, UBC 7-2, BS 476, UL 10B, UL 10C, [90 minutes for wood doors] [3 hours for hollow metal doors].
- l. Testing Standard: Tested according to ANSI/BHMA A156.26.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Comply with the instructions and recommendations of the continuous geared door hinge manufacturer.

Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

3.02 EXAMINATION

- A. Site Verification of Conditions:

1. Verify that site conditions are acceptable for installation of continuous geared door hinges.
 - a. Examine doors and frames for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction and other conditions affecting performance.
 - b. Ensure frame is square and plumb before installation.
 - c. Examine roughing-in for electrical wiring connections.
2. Do not proceed with installation of continuous geared door hinges until unacceptable conditions are corrected.

Specifier Note: Specify actions required to physically prepare the surface, area or site or to incorporate the primary products of the section.

3.03 PREPARATION

- A. Wood Door Preparation: Comply with ANSI/WDMA I.S.1-A.
- B. Steel Door and Frame Preparation: Drill doors and frames for hardware per manufacturer's installation instructions. Comply with ANSI A250.8/SDI-100.

Specifier Note: Coordinate article below with manufacturer's recommended installation requirements.

3.04 INSTALLATION

- A. Mounting Location: Comply with the following requirements, unless otherwise indicated:
 1. Steel Doors and Frames:
 - a. Comply with ANSI A250.8/SDI-100.
 - b. Ensure frames are properly sized, plumb and square.

c. [Specify standard () .ic requirements.].

2. Wood Doors:

- a. Comply with ANSI/WDMA I.S.1-A.
- b. Ensure doors are properly sized, plumb and square.
- c. [Specify standard or specific requirements.].

B. Adjust and reinforce attachment substrates as necessary for proper installation and operation.

C. Space fasteners and anchors according to manufacturer's product instructions.

Specifier Note: Specify the final actions required to prepare installed equipment or other completed work to properly function or perform.

3.05 ADJUSTING

A. Perform adjustments required to ensure that continuous geared door hinges function in compliance with manufacturer's performance criteria prior to acceptance by Owner.

- 1. Adjust door control devices to compensate for final operation of HVAC system and to comply with accessibility requirements.

Specifier Note: Specify the final actions required to clean installed equipment or other completed work to properly function or perform. Coordinate article below with Division 1 Execution Requirements (Cleaning) Section.

3.06 CLEANING

A. Remove any protective films and clean components as necessary following manufacturer's recommended procedures.

Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by Owner. Coordinate article below with Division 1 Execution Requirements Section.

3.07 PROTECTION

A. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION



ASSA ABLOY

**PENKOHINGE™ CONTINUOUS GEARED HINGES:
HALF SURFACE SAFETY HINGES:
STANDARD**

HS_SF BHMA

AVAILABLE FINISHES: BL, C, D, PW, SN

WIDTH: 2" (50.8 mm)

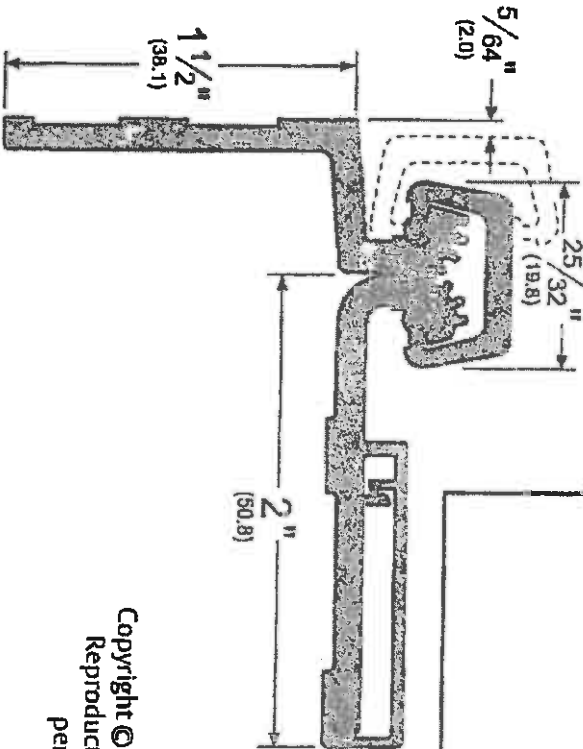
(between frame leaf and door leaf edge)

CAP WIDTH: 25/32" (19.8 mm)

HEIGHT: 1-1/2" (38.1 mm)

(frame edge side - leaf)

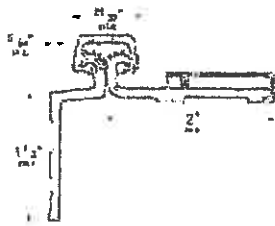
- BL (Black Anodized) - special request only
- C (Clear Anodized)
- D (Dark Bronze Anodized)
- PW (Painted White) - special request only
- SN (Satin Nickel Anodized)



TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:

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HS_SF_CUT Rev 2 - 10.04.10

_HS_SF







 Enlarge Image

Pemko's standard duty anodized aluminum Half Surface Safety continuous geared hinges are designed mainly for retrofit work in child care and nursing facilities and are applied to the exposed surface of the frame rabbet. Also available in heavy duty models.

- Designed for use with hollow metal frames, where the inset conforms to S.D.I. specifications for aligning doors and frames.
- Allows for adjustments in order to properly align the edge of the door to the frame
- BL (Black Anodized) and PW (Painted White) are special finishes available upon request
- Fasteners - Frame Portion - All fasteners are #12-24 x 7/16" FHUC, Type C, Threadforming
- Standard model: 16 fasteners required for each leaf
- Wood screws available on request (specify on order)
- Fasteners - Door Portion - a. Thru-bolt - 1/4-20 x 1-5/8" - Standard Duty Hinges - 4 required. - b. Shoulder Bolt - 1/4-20 x 1" PCH. - Standard Duty Hinges - 4 required. - c. Pan Head Self Drilling #12 x 3/4" - Standard Duty Hinges - 6 required.
- Standard duty hinge, 6" between bearing centers.
- Standard duty hinges conform to Grade 2-150 and Grade 3-300 cycle requirements per BHMA standard ANSI/BHMA A156.26-2005.
- Aluminum continuous hinge for use on swinging type fire doors of the hollow metal, tin-clad, sheet metal and steel covered composite type rated up to 3 hours wood covered composite type rated up to and including 1-1/2 hours. Also wood core rated up to and including 20 minutes without hose stream.
- PemkoHinge products are guaranteed for the life of the opening against defects in material or workmanship with the exception of AL, RS, standard duty and Grade 3 hinges, which carry a 10 year warranty.
- Weight bearing (per BHMA standard ANSI/BHMA A156.26-2005) for standard models: 63" and 85" = 14 bearings, door weight = 250 lbs.; 95" = 16 bearings, door weight = 320 lbs.; 120" = 20 bearings, door weight = 400 lbs.
- Width: 2" (50.8 mm) (between frame leaf and door leaf edge)
- Cap Width: 25/32" (19.8 mm)
- Height: 1-1/2" (38.1 mm) (frame edge side - leaf).



[Reprints Explained](#) | [View Finishes](#)

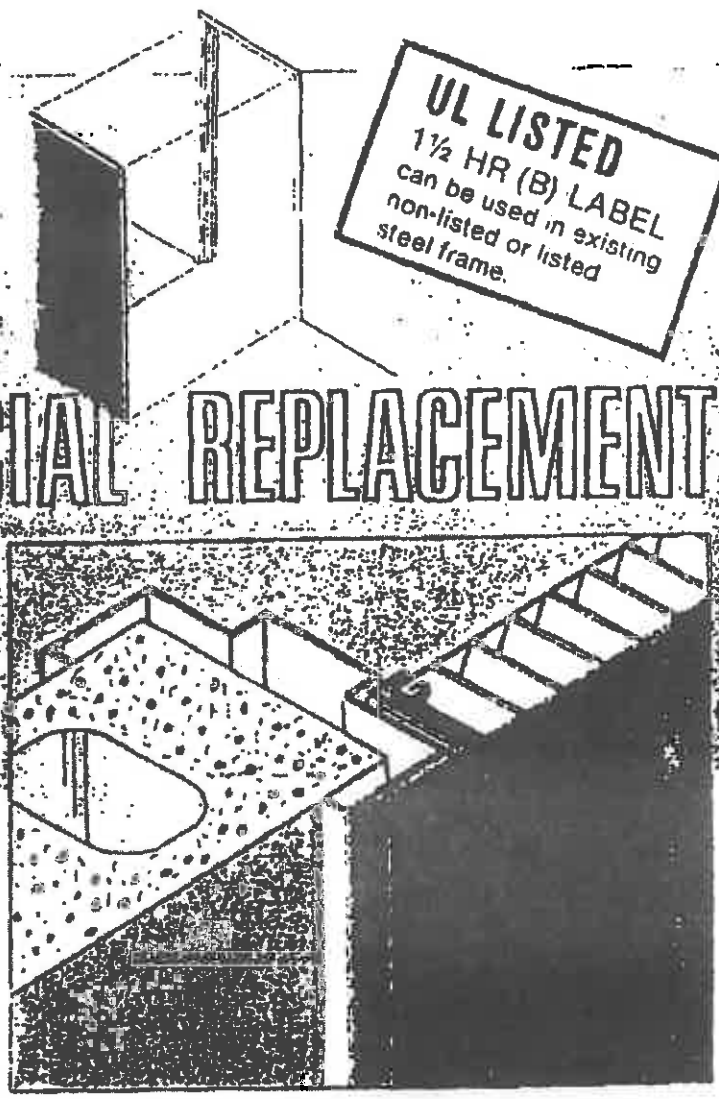
	CHSSF	C - Clear Anodized Aluminum
	DHSSF	D - Dark Bronze Anodized Aluminum
	GHSSF	G - Gold Anodized Aluminum, (Special Order Finish)
	BLHSSF	BL - Black Anodized Aluminum, (Special Order Finish)
	PWHSSF	PW - Painted White Aluminum, (Special Order Finish)
	SNHSSF	SN - Satn Nickel Anodized Aluminum, (Special Order Finish)

Install a pre-hung



COMMERCIAL REPLACEMENT DOOR UNIT

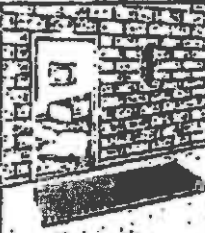
UL LISTED
1 1/2 HR (B) LABEL
can be used in existing
non-listed or listed
steel frame.



New beauty
and security
for worn out doors.

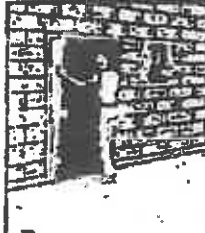
The Steelcraft Commercial Replacement Unit is the only product of its kind specifically designed for the rehab market. Fits these nominal sizes: 2868, 3068, 3668, 3868, 4068, 2870, 3070, 3670, 3870, 4070 single, and 5468, 5068, 5470 and 6070 double doors.

- Does not require removal of existing frame.
- Fits an "out-of-square" opening.
- Works with grouted or non-grouted frames.
- Installs quickly and easily.
- Includes rugged steel adapter frame.
- Permits door swing to be changed without major rework.
- Fills opening without re-mortising and filling hardware cutouts.
- Can be installed in existing steel or wood frame.
- Provides additional security.



QUICK

1. Remove old door, hardware, sill and any other item(s) projecting into opening.



'N EASY

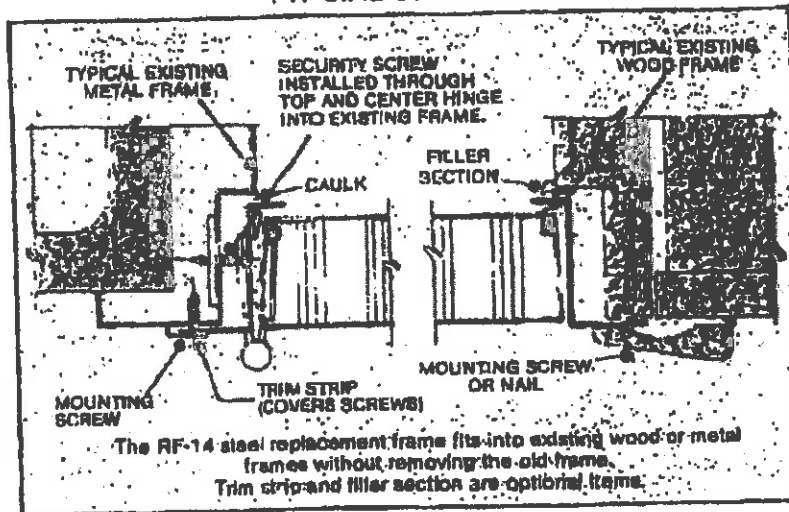
2. Set pre-hung unit into frame opening. Install mounding screws through face, cut banding and install security screws.



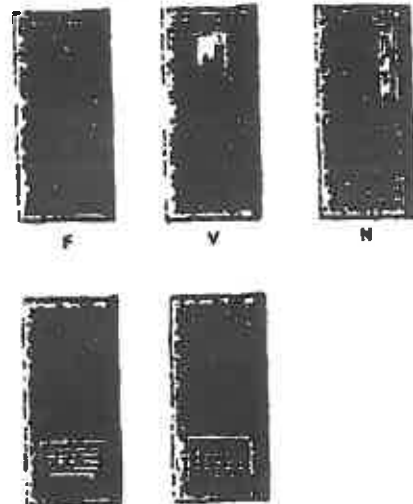
INSTALLATION

3. Mount hardware as required. Paint.

TYPICAL SECTION

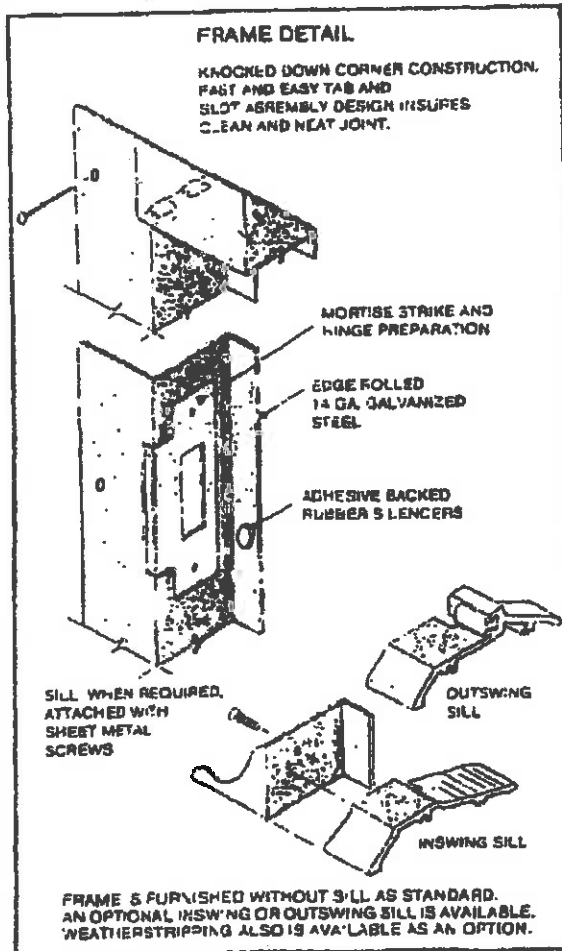


DESIGNS AND FINISHES AVAILABLE



LOWERS

FRAME DETAIL



SPECIFICATIONS

Commercial Replacement Unit shall be supplied as a complete unit, consisting of 18 ga. door (RL-18) and 14 ga. frame (RF-14).

*Single openings shall be pre-hung, ready for quick and easy installation. Double openings shall be supplied as separate units (frame and two door leaves) not pre-hung.

Doors shall conform to the following:

Doors shall be as manufactured by Steelcraft, Cincinnati, Ohio, and designated as RL-18 (1 3/4" 18 ga. steel).

Doors shall be fabricated from cold rolled steel.

Doors shall have 1/4" bevel in 2" on hinges and lock edges.

Doors shall have vertical mechanical interlocking seams on hinges and lock edges with visible edge seam.

Doors shall be provided with top and bottom inverted steel channels, spotwelded within the door.

Doors shall be reinforced, stiffened and sound deadened with impregnated urethane honeycomb core completely filling the inside of the door and laminated to the inside faces of panels.

Doors shall be mortised and adequately reinforced for all hardware.

Doors shall be phosphatized and receive one coat of baked-on prime paint.

Frames shall conform to the following:

Frames shall be as manufactured by Steelcraft, Cincinnati, Ohio, and designated as RF-14 (14 ga.).

Frames shall be accurately formed from galvanized steel.

Frames shall be furnished knocked down (KD). Corners shall have tabs for secure and easy interlocking of jamb to head at each corner.

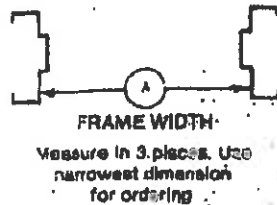
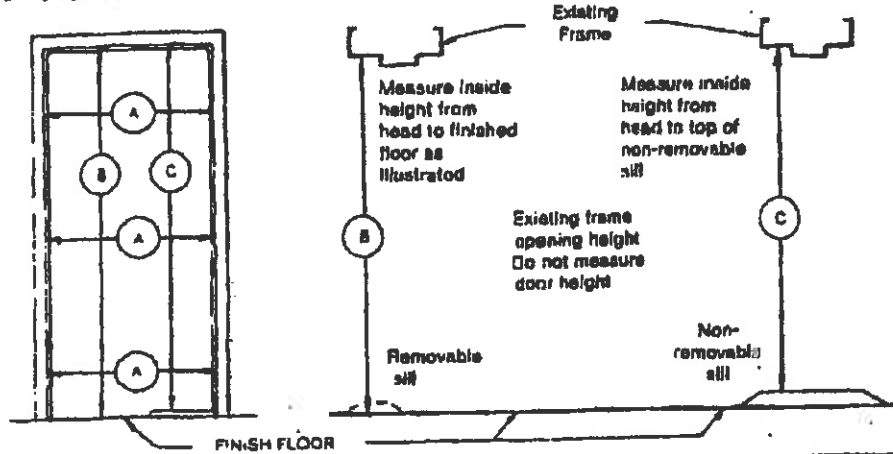
Frames shall be adequately reinforced for all hardware.

Frames shall be supplied with adhesive backed rubber gumpers: three per strike jamb, two per double door frame head.

Frames shall be phosphatized and receive one coat of baked-on prime paint.

*Single openings are designed to be pre-hung and installed. Units are supplied KD for pre-hanging at job site or by distributor.

HOW TO DETERMINE SIZE OF EXISTING FRAME



NOTE: ORDER UNITS BY NOMINAL SIZES. DO NOT ORDER BY ACTUAL DIMENSIONS.

SIZE (Nominal)	FITS THESE EXISTING OPENINGS:			
	A WIDTHS		B C HEIGHTS	
	MIN.	MAX.	MIN.	MAX.
2'8" x 6'8"	31 1/2"	32 1/2"	78 1/2"	80 1/2"
3'0" x 6'8"	35 1/2"	36 1/2"	78 1/2"	80 1/2"
3'2" x 6'8"	41 1/2"	42 1/2"	78 1/2"	80 1/2"
3'4" x 6'8"	46 1/2"	47 1/2"	78 1/2"	80 1/2"
4'0" x 6'8"	47 1/2"	48 1/2"	78 1/2"	80 1/2"
2'8" x 7'0"	31 1/2"	32 1/2"	83 1/2"	85 1/2"
3'0" x 7'0"	35 1/2"	36 1/2"	83 1/2"	85 1/2"
3'2" x 7'0"	41 1/2"	42 1/2"	83 1/2"	85 1/2"
3'4" x 7'0"	43 1/2"	44 1/2"	83 1/2"	85 1/2"
4'0" x 7'0"	47 1/2"	48 1/2"	83 1/2"	85 1/2"
3'4" x 8'0"	63 1/2"	64 1/2"	78 1/2"	80 1/2"
3'6" x 8'0"	71 1/2"	72 1/2"	78 1/2"	80 1/2"
3'8" x 7'6"	83 1/2"	84 1/2"	83 1/2"	85 1/2"
3'0" x 7'0"	71 1/2"	72 1/2"	83 1/2"	85 1/2"

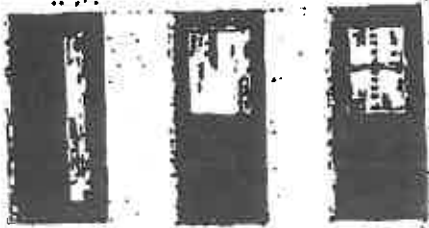
*MAX. OPENING HEIGHT MAY BE EXCEEDED BY BLOCKING DOWN EXISTING OPENING.

TO HAND A DOOR — FACE IT FROM THE OUTSIDE OR KEYSIDE

LEFT HAND Hinges on Left Opens inward	RIGHT HAND Hinges on Right Opens inward	LEFT HAND REVERSE Hinges on Left Opens outward	RIGHT HAND REVERSE Hinges on Right Opens outward
LEFT HAND Hinges on Left Opens inward	RIGHT HAND Hinges on Right Opens inward	LEFT HAND REVERSE Hinges on Left Opens outward	RIGHT HAND REVERSE Hinges on Right Opens outward

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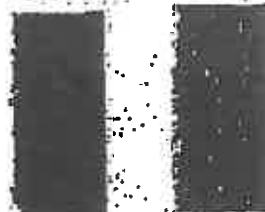
E



L.M.

G

G2/G4



FINISH PAINTED AND WOOD GRAIN FINISHES

HARDWARE

Replacement Units shall be prepared for the following hardware:

Hinges:

1-1/2 pair of 4-1/2 x 4-1/2 x 134 template hinges

Lock and Strikes:

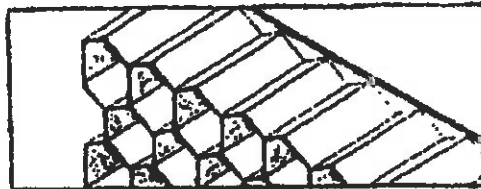
Government 184 (ANSI-A115.2) cylindrical or Government 88 (ANSI-A115.1) mortise lock with an ANSI-A115.1 or .2 strike.

Consult distributor for other hardware preparations.

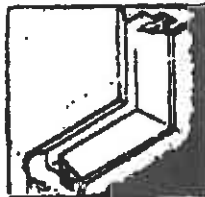
	NOMINAL SIZE	FRAME SIZE (FINISHED OPENING)		NET DOOR SIZE*	
		WIDTH	HEIGHT	WIDTH	HEIGHT
SINGLE	2868	31"	79 1/2"	30-13/16"	79W"
	3068	35"		34-13/16"	
	3668	41"		40-13/16"	
	3868	43"		42-13/16"	
	4068	47"	46-13/16"	82W"	
	2870	31"	30-13/16"		
	3070	35"	34-13/16"		
	3670	41"	40-13/16"		
3870	43"	83W"	42-13/16"	82 1/2"	
4070	47"		46-13/16"		
PAIR	5468	63"	79 1/2"	30-13/16" & 31-13/16"	78W"
	6088	71"		34-13/16" & 35-13/16"	
	5470	63"	83 1/2"	30-13/16" & 31-13/16"	82 1/2"
	6070	71"		34-13/16" & 35-13/16"	

*FOR PAIRS OF DOORS INACTIVE LEAF IS 1" WIDER THAN ACTIVE LEAF
CONSULT DISTRIBUTOR FOR OTHER SIZES.

DOOR DETAILS



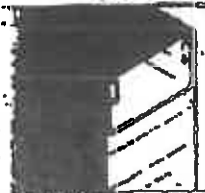
Full honeycomb core of phenolic resin-impregnated kraft paper reinforces the door every 1/4 inch, providing superior resistance to impact and assuring a flat surface.



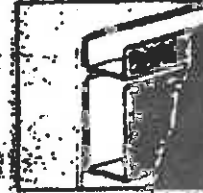
Aluminum glass trim (3/8x3/4-in.)



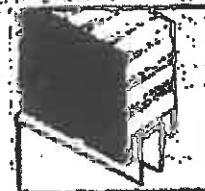
8-gage thick hinge reinforcement.



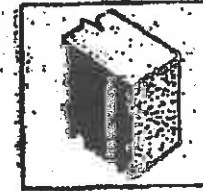
Snap-on steel top cap for exterior opening.



Steel top and bottom reinforcement channels. 1/4 gage closer reinforcement when required.



Door bottom with double sweep when required.



Insulated doors: one pound polystyrene core, 1 1/2 pound polyurethane core when required.

PAIRS OF DOORS

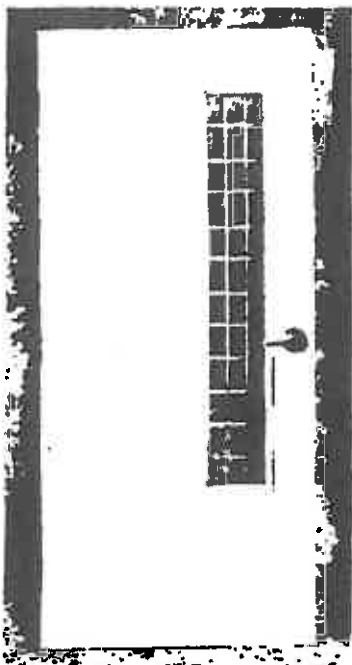


Designs shown may be combined for pairs of doors. Pairs of doors consist of two leaves and a 14 ga. steel "Z" astragal field mounted to inactive leaf of pair. Inactive leaf may be secured with flush bolts or surface bolts.

Note: For pairs of doors, right hand will be active, unless specifically ordered.

STEELCRAFT

L18 AND L16-SERIES HONEYCOMB DOORS



ABOUT THE PRODUCT:

The L18 and L16-Series Flush Doors are designed to meet the architectural requirements for full flush doors. This premium door construction combines the strength and dimensional stability of steel with the structural integrity of the honeycomb core. The continuous bonding of core to metal provides an attractive flat door, free of face welding marks. Tests have proven that the L-Series door has integral high resistance to impact damage, low thermal conductivity, and high STC ratings.

To meet application, specification and performance requirements, the L-Series doors offer a wide range of specifiable options including sizes, glass lite designs, hardware (mechanical, pneumatic, electrical) preparations and edge constructions.

FEATURES AND BENEFITS:

Steelcraft's L-Series Doors offer the following standard unique features, which enhance long term performance and durability.

1. Honeycomb core system enhances the structural integrity of the door, while significantly reducing the weight.
2. Full height, epoxy filled mechanical interlock edges provide structural support and stability the full height of the door edges.
3. Patented universal hinge preparations allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
4. 14 gage top and bottom channels provide stability and protection for the top and bottom edges from abuse.
5. Beveled hinge and lock edges allow for tighter installation tolerances, ensure easier operation, and eliminate binding and sticking.
6. Recessed Dezigner™ glass trim provide a clean, neat, and flush finish with the door surface.
7. Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

1. Door construction for the Steelcraft L18 and L16-Series Full Flush Doors meet the requirements of ANSI A250.8-1998 (commonly referred to as SDI-100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

The L-Series doors meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing (ASTM E152 and UL-10B) and positive pressure standards (ULC 7-2 and UL-10C).

Steel Thickness	Opening	Usage Frequency ¹	Frame Applications:
16 gage (1.3mm)	Interior & Exterior	Extra-heavy duty	• 16 & 14 gage steel frames
18 gage (1mm)	Interior & Exterior	Heavy duty	• 16 gage steel frames
Steel Type ²	Opening	Building Applications:	
Non Galvannealed ³	Mainly Interior	• Typical building conditions	
Galvannealed ³	Mainly Exterior	• Used in locations with high humidity and/or weather exposure	

MATERIAL:

Depending on environmental conditions, exterior doors are generally galvannealed and interior doors non galvanneal. All doors are supplied with a factory applied baked on primer for field applied finish paints.

- ¹ Usage frequency is based on ANSI A250.8-1998
- ² Reinforcements for galvannealed doors are also galvannealed
- ³ Commercial quality carbon steel

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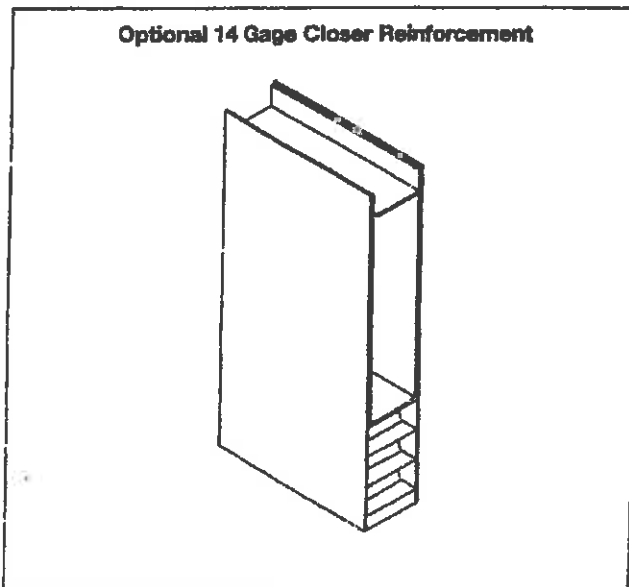
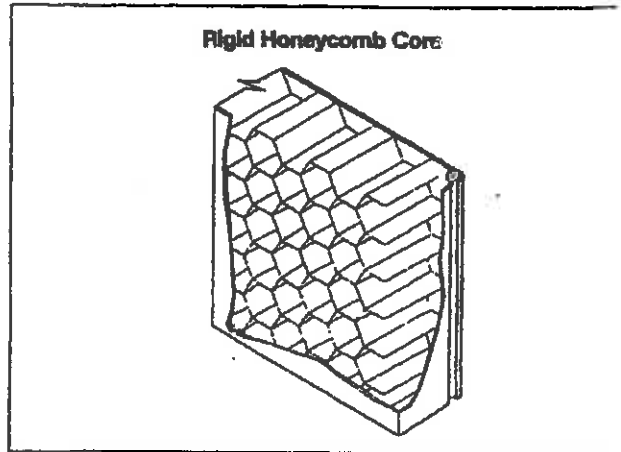
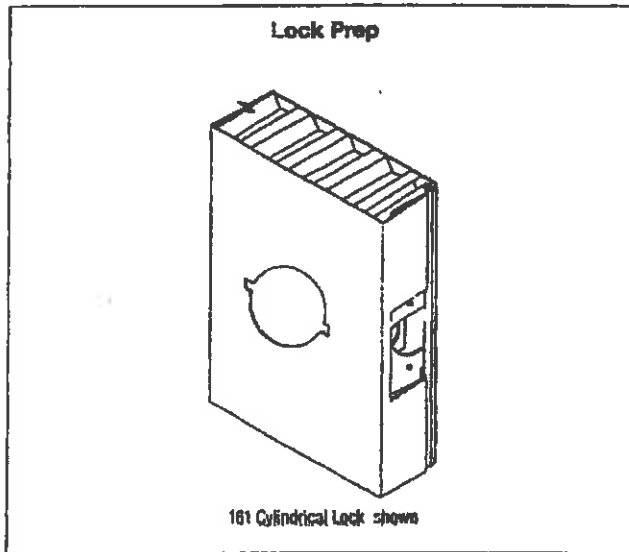
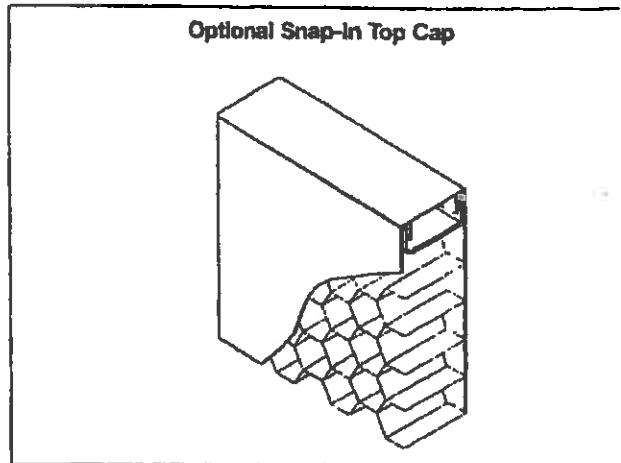
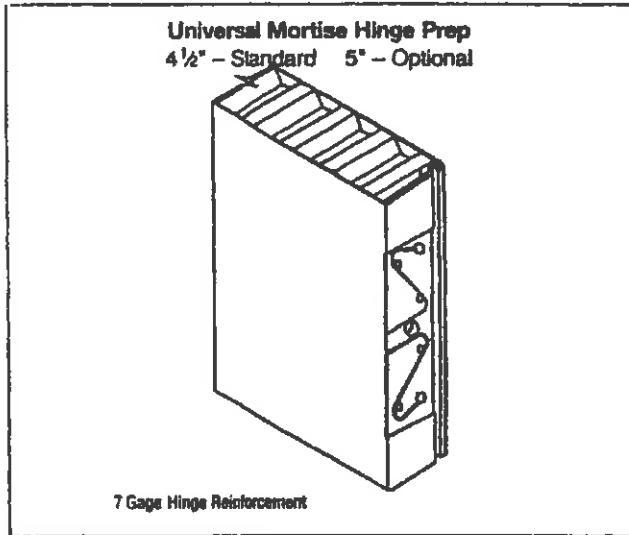
IR Security & Safety

Details are subject to change without prior notice.

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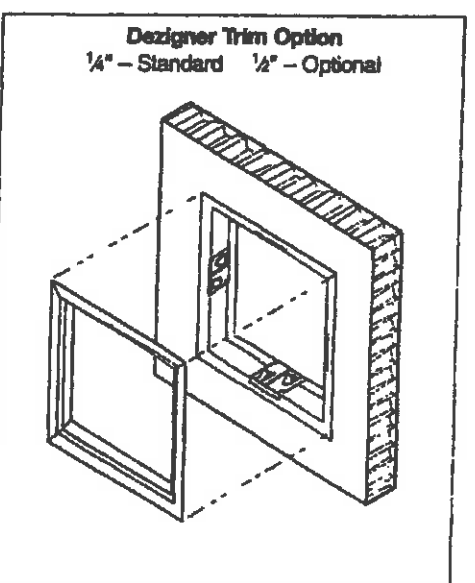
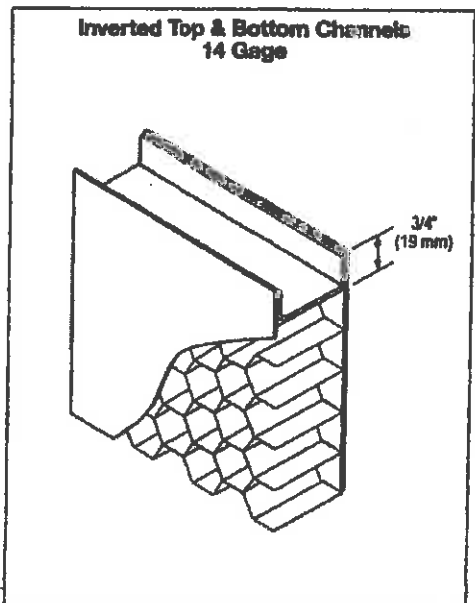
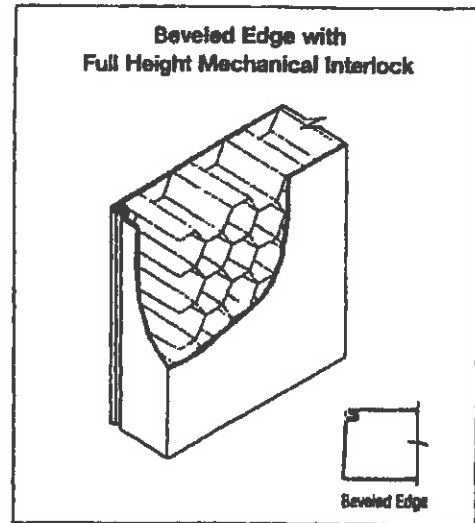
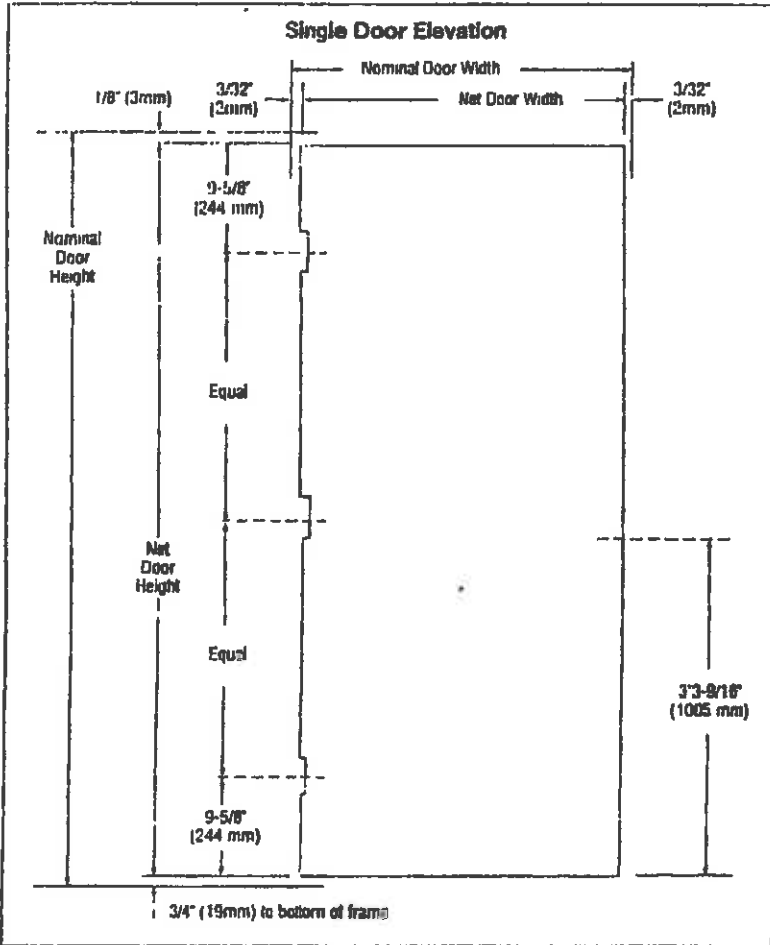
Spec Manual
Rev. 5.2002

L1-1



GENERAL NOTES:

1. **Edge construction:**
 - Vertical edges (both hinge and lock) are beveled with a visible seam.
 - Top and bottom edges are closed with inverted 14 gage welded channels. Exterior applications require the addition of snap-in top caps to protect against the weather.
2. **Optional edge seams available in the L-Series door construction are as follows:**
 - LF - The mechanical edge seam is filled and finished prior to applying the factory primer.
 - LW - The mechanical edge seam is welded and finished prior to applying the factory primer.
3. **Optional cores available in the L-Series door construction:**
 - **Polystyrene** for exterior applications in extreme weather conditions.
 - **Polyurethane** for exterior applications in arctic weather conditions. Not Fire Rated.
4. **Standard hardware preparations: standard mortised and reinforced for:**
 - **Universal hinge preps** - 4 1/2" (114mm) patented preparation which allows easy and quick field conversion from standard to heavy weight hinges.
 - **Locks** - A multitude of standard lock preps are available. The most commonly used with a 4 7/8" (124mm) strike are 161, 61L and 86.



CONSTRUCTION NOTES:

1. Doors are 1 3/4" (45mm) thick.
2. Door opening size maximum:
Single door opening size 4'0" x 10'0" (1219mm x 3048mm)
Double door opening size 8'0" x 10'0" (2438mm x 3048mm)
3. Standard operating clearances (installed in frame):
Head = 1/4" (3mm) to bottom of head or transom panel
Hinge and lock side = 3/8" (2mm) to rabbet on jamb
4. Standard core system:
1" (25mm) cell Kraft honeycomb core is laminated to both face sheets with contact adhesive. The honeycomb is phenolic resin impregnated and sanded to insure ultimate lamination and performance. To further enhance the structural stability of the door the honeycomb core material is subjected to several unique operations prior to assembly. If any of these operations are eliminated, the strength and durability of the door is compromised.
5. Hardware preparations: to meet specifications, doors can be prepared for all commercial mortised hardware, and can be factory reinforced for surface applied hardware applications.
 - Lock preps - details and dimensions shown are for cylindrical (ANSI 115.2) type locks. For mortise (ANSI A115.1) locks, the centerline of the lock is located 3/8" (9mm) lower.
6. Glass lites with Designer® trim and louvers: doors with glazed cutouts and doors with louvers are available (see Lites and Louvers section of Spec Manual).

INSTALLATION:

1. Installation shall conform to the published Steelcraft installation instructions, SDI 105 *Recommended Installation Instructions for Steel Frames*, and ANSI/DHI A115-IG *Installation Guide for Doors and Hardware*.
2. Fire Rated Assemblies must be in accordance with NFPA Pamphlet 80. The *Authority Having Jurisdiction* is the final authority in issues related to the installation and use of installed Fire Rated Doors.

DOOR EDGE APPLICATIONS:

The L-Series Doors are used in virtually all buildings and construction applications. The application and functionality dictate the door edge construction specified.

Edge	Usage	Application
L	Heavy & Extra-heavy duty	High traffic in all commercial applications
LF	Heavy & Extra-heavy duty	High traffic, in sanitation conditions
LW	Heavy & Extra-heavy duty	High traffic, in sanitation and high abuse conditions

CONVERSION CHART

ANSI A250.8 (SDI 100) *Recommended Specification for Standard Steel Doors and Frames*.

Series	Level	Model	Description	Edge Construction
L18	2	1	Full Flush	Full height, visible mechanical interlocked edge
LF18	2	2	Seamless	L-Series with epoxy filled edge seams
LW18	2	2	Seamless	L-Series with welded edge seams
L16	3	1	Full Flush	Full height, visible mechanical interlocked edge
LF16	3	2	Seamless	L-Series with epoxy filled edge seams
LW16	3	2	Seamless	L-Series with welded edge seams

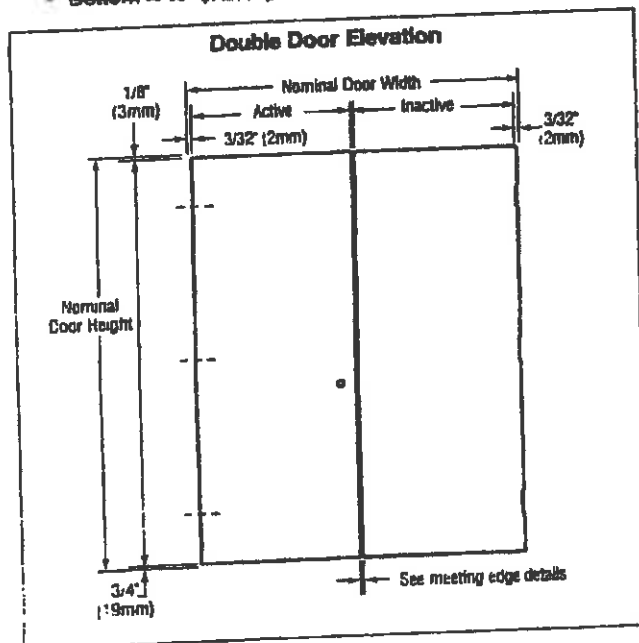
DOUBLE DOOR APPLICATIONS:

L-Series doors are available in double door elevations, with active and inactive leaves and an overlapping astragal.

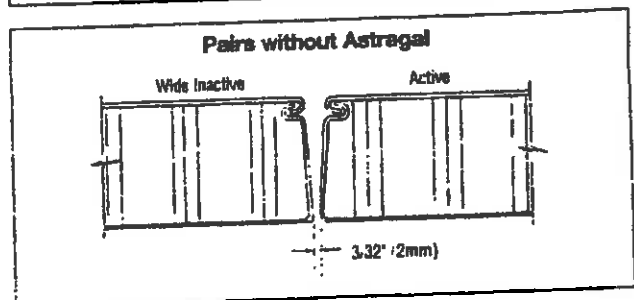
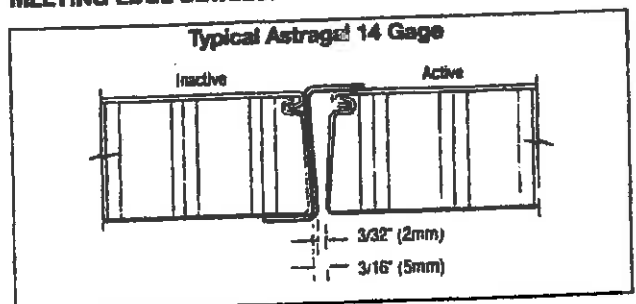
- Standard operating clearances (*installed in frame*):
 - Head = $\frac{1}{8}$ " (3mm) to bottom of head or transom panel
 - Hinge side = $\frac{3}{32}$ " (2mm) to rabbet on jamb
 - Meeting edges = $\frac{3}{32}$ " (2mm) with or without astragal. For openings without an astragal, a wide inactive leaf is used.
 - Bottom = $\frac{3}{8}$ " (19mm) to bottom of frame

• Meeting edges:

- 14 Gage astragal is furnished loose for installation in the field by others.
- Overlapping astragal kits are available to convert an active leaf to an inactive leaf.
- When an astragal is not used, the width of the inactive leaf is increased $\frac{3}{32}$ " (2mm).
- Hardware preparations: the inactive leaf can be prepared for hardware as specified.



MEETING EDGE DETAILS:



Architectural Hinge

Full Mortise

Five Knuckle



Plain Bearing - Standard Weight

For use on medium weight doors or doors requiring low frequency service

1191 Brass with Stainless Steel pin
- ANSI A2133
Stainless Steel with Stainless Steel pin
- ANSI A5133

1279 Steel with Steel pin
- ANSI A8133

- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
2 x 2	51 x 51	0.083	4	-	3/4 x 8
2 1/2 x 2 1/2	64 x 64	0.089	6	-	3/4 x 8
3 x 3	76 x 76	0.097	6	-	1 x 9
3 1/2 x 3 1/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 4 1/2	114 x 114	0.134	8	1/2 x 12-24	1 1/4 x 12
5 x 4	127 x 102	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 4 1/2	127 x 114	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 5	127 x 127	0.145	8	1/2 x 12-24	1 1/4 x 12
6 x 4 1/2	152 x 114	0.160	10	1/2 x 1/4-20	1 1/2 x 14
6 x 5	152 x 127	0.160	10	1/2 x 1/4-20	1 1/2 x 14
6 x 6	152 x 152	0.160	10	1/2 x 1/4-20	1 1/2 x 14

Five Knuckle



Plain Bearing - Standard Weight - Wide Throw

For use on medium weight doors or doors requiring low frequency service

1191 Wide Throw

Brass with Stainless Steel pin
- ANSI A2133

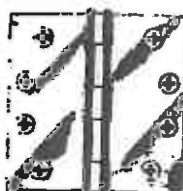
Stainless Steel with Stainless Steel pin
- ANSI A5133

1279 Wide Throw

Steel with Steel pin
- ANSI A8133

- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3 1/2 x 5	89 x 127	0.119	6	1/2 x 10-24	1 x 9
3 1/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0.129	8	1/2 x 12-24	1 1/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	1 1/4 x 12
4 x 7	102 x 178	0.129	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 5	114 x 127	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 6	114 x 152	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 7	114 x 178	0.134	8	1/2 x 12-24	1 1/4 x 12
4 1/2 x 8	114 x 203	0.134	8	1/2 x 12-24	1 1/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	1 1/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	1 1/4 x 12



Concealed Bearing - Standard Weight

For use on medium weight doors or doors requiring medium frequency service

CE1191 Stainless Steel with Stainless Steel pin
- ANSI A5112

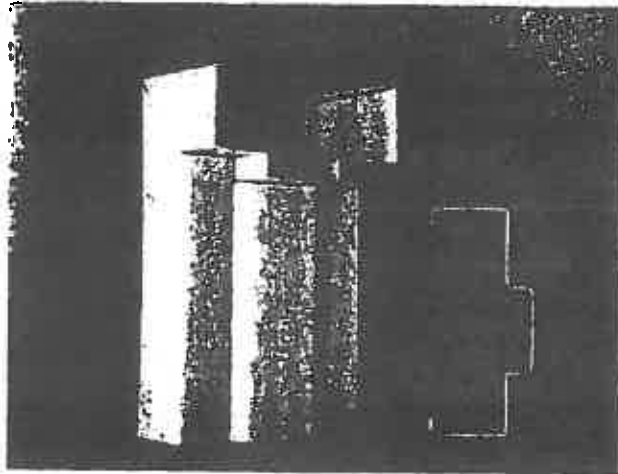
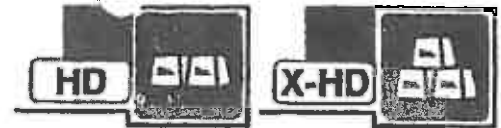
- Non-rising removable pin with button tip and plug
- Only available with SecureCoat® Lifetime finish (US3SC)
- Specify machine screws

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3 1/2 x 3 1/2	89 x 89	0.119	6	-	1 x 9
4 x 4	102 x 102	0.129	8	-	1 1/4 x 12
4 1/2 x 4	114 x 102	0.134	8	-	1 1/4 x 12
4 1/2 x 4 1/2	114 x 114	0.134	8	-	1 1/4 x 12
5 x 4	127 x 102	0.145	8	-	1 1/4 x 12
5 x 4 1/2	127 x 114	0.145	8	-	1 1/4 x 12
5 x 5	127 x 127	0.145	8	-	1 1/4 x 12
6 x 4 1/2	152 x 114	0.160	10	-	1 1/2 x 14
6 x 5	152 x 127	0.160	10	-	1 1/2 x 14
6 x 6	152 x 152	0.160	10	-	1 1/2 x 14



STEELCRAFT

F16 AND F14-SERIES FLUSH FRAMES



ABOUT THE PRODUCT:

The F16 and F14-Series 3-Sided Flush Frames are designed for heavy and extra-heavy duty applications in both commercial and institutional buildings. They can be installed in both interior and exterior locations, and in virtually all types of buildings and wall constructions. These frames are to be installed as part of the wall framing sequence. They can be specified and/or supplied as either KD (knock-down) for field assembly prior to installation, or SUA (set-up and welded) for installation as a pre-welded unit.

APPLICATIONS:

The F-Series Frames are typically used in the following types of wall constructions:

Wall Construction	Application	Typical Wall Anchors
Masonry	wrap or butted	Wire masonry
Existing masonry	butted	Bolted through soffit
Wood stud	wrap	Lock-in wood stud anchor
Steel stud	wrap	Lock-in steel stud anchor

Steel Thickness	Opening	Usage Frequency	Applications
14 gage (1.7mm)	Interior & Exterior	Extra-heavy to Maximum duty	• 18 & 14 gage steel doors
16 gage (1.3mm)	Interior & Exterior	Heavy to Extra-heavy duty	• 20, 16 & 16 gage steel doors • Commercial grade wood doors
Steel Type	Opening	Applications	
CRS	Mainly Interior	• Typical building conditions	
Galvannealed ²	Mainly Exterior	• Used in locations with high humidity and/or weather exposure	

MATERIAL:

F-Series Frames are supplied from either 14 gage (1.7mm) or 16 gage (1.3mm) steel. Depending on environmental and usage conditions, the steel can be either cold rolled steel (CRS) or galvannealed. All frames are supplied with a factory applied baked on primer for ultimate field paint adhesion.

FEATURES AND BENEFITS:

Steelcraft F-Series Flush Frames offer the following unique features, which enhance long term functionality and durability:

1. Die-mitered corner connections (head/jamb) Standard corners insure attractive, tight and closed miters.
2. Patented universal hinge preparations allow for easy field conversion from standard weight (.134) hinges to heavy weight (.180) hinges.
3. Adjustable base anchors allow for installation adjustment when the floor is not level.
4. Rubber silencers are factory installed.
5. Factory applied baked on rust inhibiting primer in accordance with ANSI A250.10.

SPECIFICATION COMPLIANCE:

1. Overall frame construction for the Steelcraft F16 and F14-Series Flush Frames meet the requirements of ANSI A250.8-1998 (commonly referred to as SDI-100).
2. Hardware preparations and reinforcements are in accordance with ANSI A250.6-1997. Locations are in accordance with ANSI/DHI A115.

FIRE RATINGS:

The F-Series Frames meet the broadest fire rating requirements. They are listed for installations requiring compliance to both negative pressure testing (ASTM E152 and UL-10B) and positive pressure standards (UBC 7-2 and UL-10C). Refer to the "Fire Rated" section of the Steelcraft Spec Manual for particular listings.

¹ Usage frequency is based on ANSI A250.8-1998

² Reinforcements for galvannealed frames are also galvannealed

001 24 7906

Details are subject to change without prior notice.

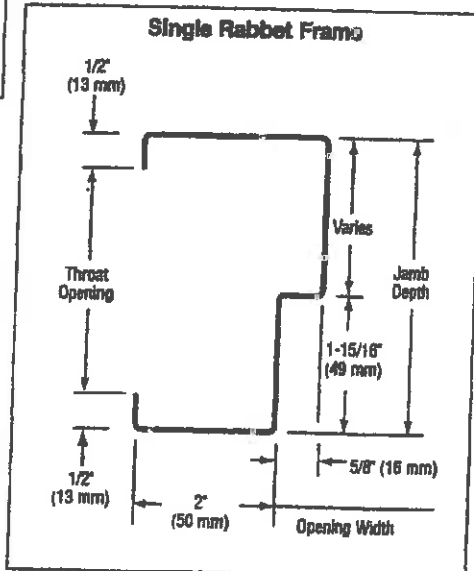
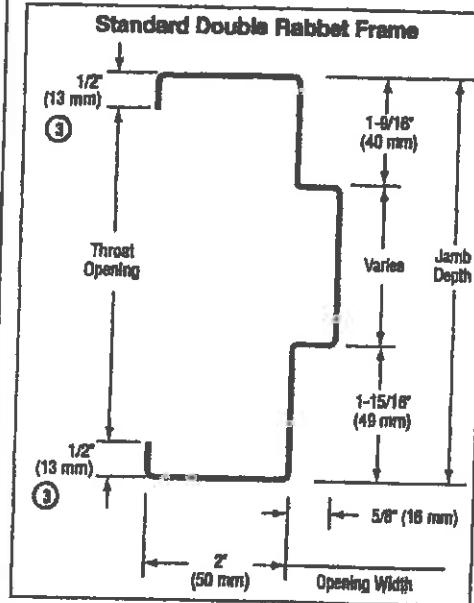
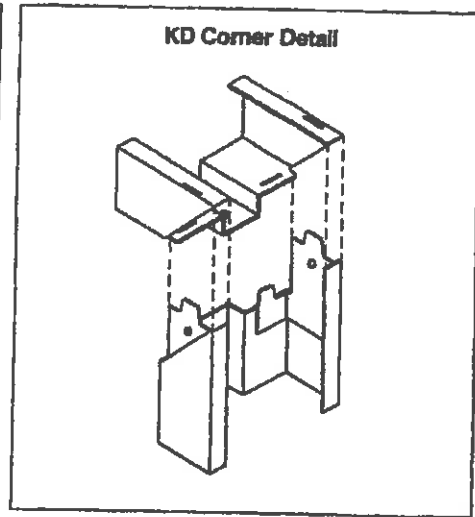
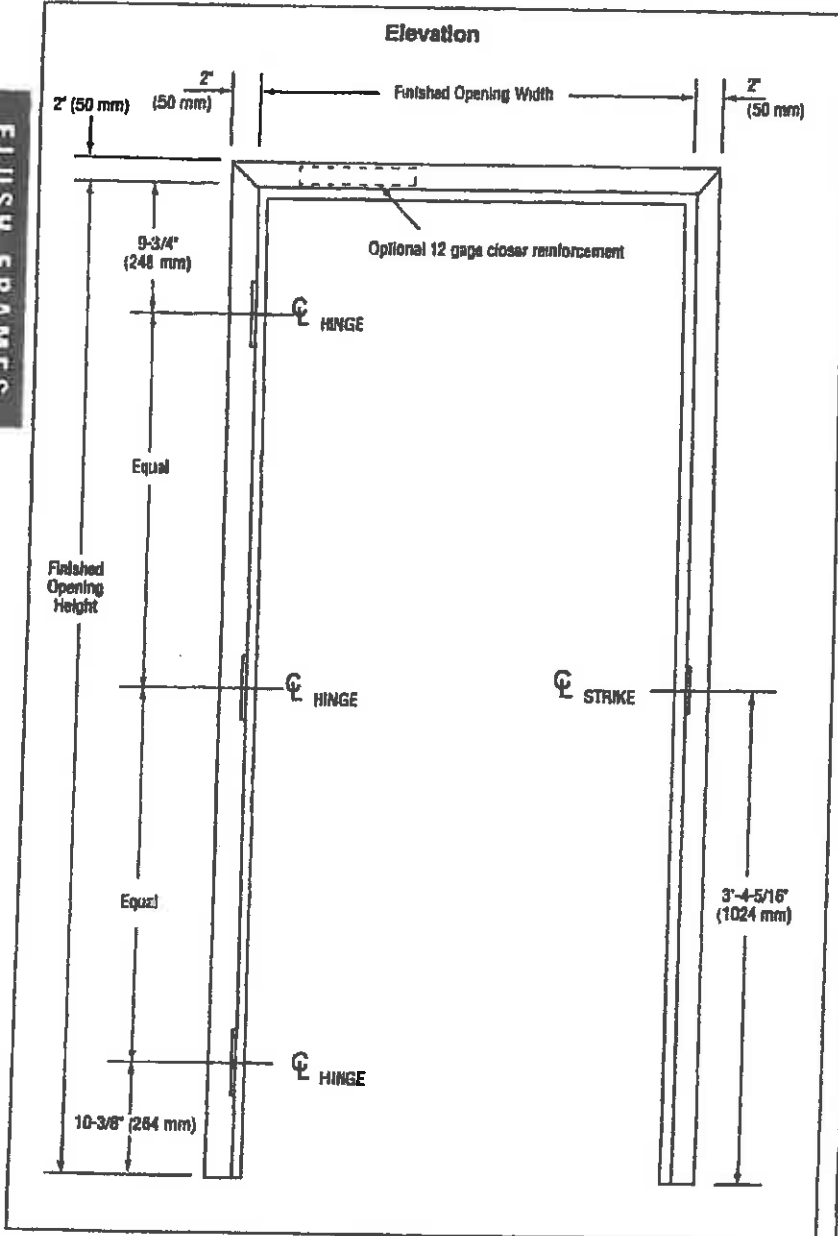
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IR Security & Safety

Spec Manual
Rev. 6/99

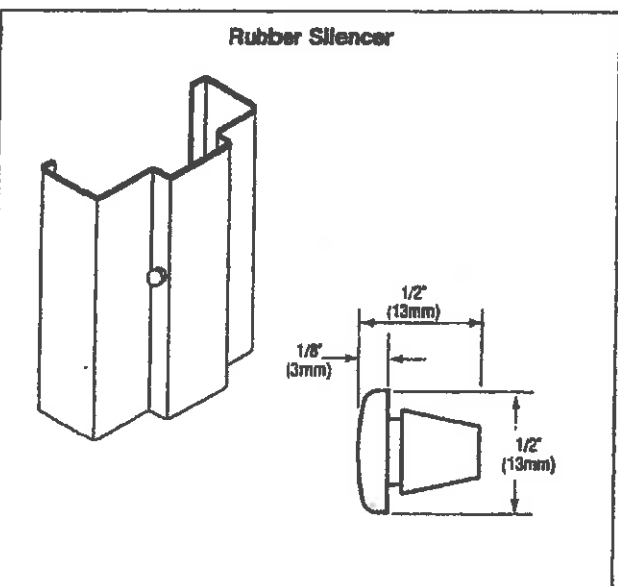
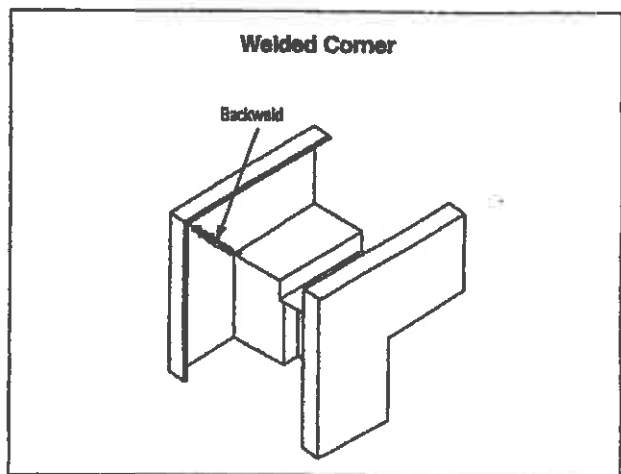
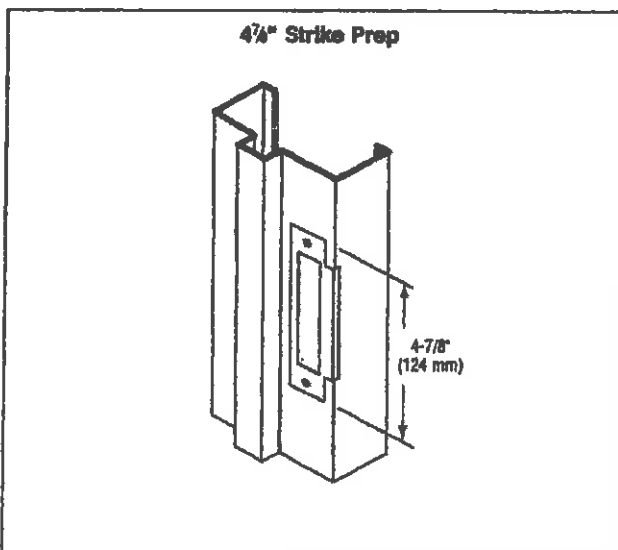
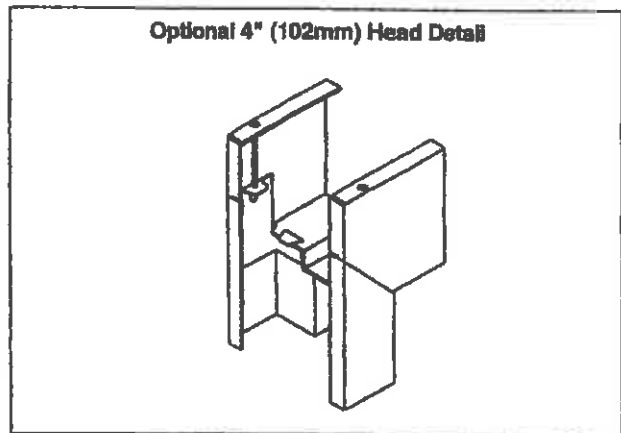
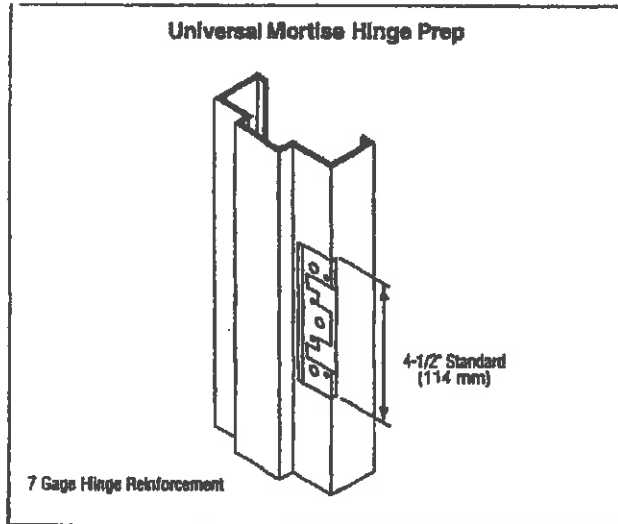
F1-1

FLUSH FRAMES



CONSTRUCTION NOTES:

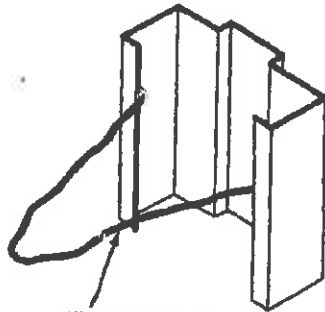
- Door opening size maximum:**
 Single door opening size 5'0" x 11'0"
 (1524mm x 3353mm)
 Double door opening size 10'0" x 11'0"
 (3048mm x 3353mm)
- Jamb depths (profile) availability:**
Single rabbet:
 minimum = 3" (76mm)
 maximum = 12 3/4" (324mm)
Double rabbet:
 minimum = 4 3/4" (121mm)
 maximum = 14 3/4" (375mm)
- Standard profile dimensions (variations available):**
 Face = 2" (50mm)
 Stop = 5/8" (16mm)
 Returns = 1/2" (13mm) all frames
 except 5 3/4" (146mm) which
 is 7/16" (11mm)
- Standard die-mitered corners:**
 Four (4) concealed tabs interlocking
 head and jambs



GENERAL NOTES:

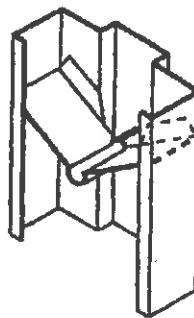
1. Frame profile – variations in jamb depths available in 1/8" (3mm) increments:
 - Single rabbet – typically for walls less than 3 3/4" (95mm) thick (2" min.[50mm])
 - Double rabbet – typically for walls 3 3/4" (95mm) thick and over
2. Corner connections:
 - KD (knock-down) – Factory die-mitered
 - Double rabbet frames – 4 tabs per miter
 - Single rabbet frames – 3 tabs per miter
 - Corner Connections – SUA (set-up and welded) Available when specified, and in accordance with ANSI A250.8-1998.
3. 4" (102mm) heads – die mitered for use with 2" (50mm) face double rabbet jambs. Available when specified for KD or SUA applications.
4. Standard hardware preparations:
 - Standard mortised and reinforced with mortar guards for:
 - Universal hinge preps – 4 1/2" (114mm) patented preparation which allows easy and quick conversion from standard to heavy weight hinges.
 - Strikes – 4 7/8" (124mm) conforming to ANSI A115.1 and ANSI A115.2.
5. Rubber silencers: All frames are supplied with factory installed silencers to cushion the closing of the door and to eliminate the field problems related to installing the silencers after the frames are installed and grouted. Three (3) silencers per strike jamb and two (2) per double door head.

Wire Masonry Anchor



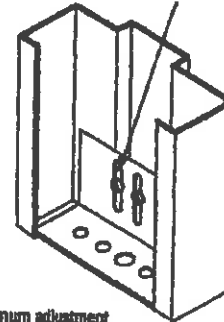
3/16" (5 mm) dia. wire

Existing Wall Anchor



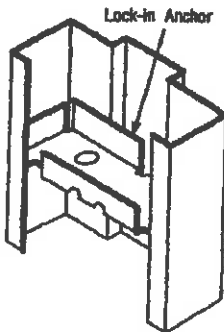
Adjustable Base Anchor

Attached with S.M. screws furnished



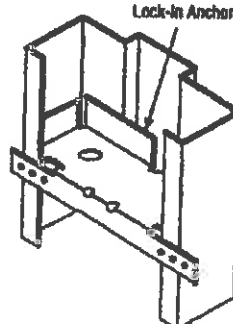
Maximum adjustment
1-3/8" (35 mm) below frame

Anchor for Stud Partitions



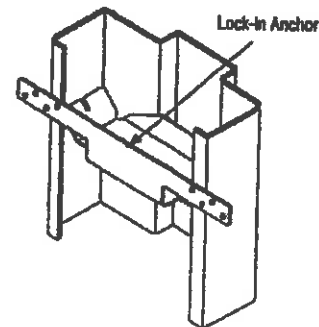
Lock-in Anchor

Anchor for Wood Stud Partition



Lock-in Anchor

Universal Stud Anchor



Lock-in Anchor

ANCHORING AND INSTALLATION NOTES:

- F16 and F14-Series Commercial and Institutional Frames** are supplied standard with masonry wire or lock-in jamb anchors and adjustable base anchors. Anchors are designed for maximum wall/frame engagement and installation flexibility.
- Anchoring applications:**
 - Masonry wall** – Masonry wire anchors (3/16" [5mm] dia.) provide maximum engagements in mortar joints, and allow for full internal grouting during installation. Adjustable base anchors are attached directly to the floor and adjusted. The wall is built around the anchored frame. (Refer to installation sheet #INS-2004.)
 - Existing masonry walls (EMA)** – Specifically designed (18 Ga. steel) jamb anchors are used to add support for bolting the frame into the rough opening of an existing wall. An existing wall anchor is used as the base anchor in this application. (Refer to installation sheet #INS-2014.)
 - Wood stud walls** – Lock-in (18 Ga. steel) jamb anchors are designed to be attached to the wood stud rough opening. After the frame is anchored, the wallboard is installed and finished. (Refer to installation sheet #INS-2005.)
 - Steel stud walls** – Lock-in (18 Ga. steel) jamb anchors are designed to be attached to the webbing of the closed steel

studs which are built around the frame. Adjustable base anchors are attached directly to the floor and adjusted. After frame is anchored, the wallboard is installed and finished. (Refer to installation sheets #INS-2006 and 2007.)

- Special frame anchorage:** Frame anchorage details shown on this sheet are applicable to double rabbet frames with 2" (50mm) faces. Anchorage details and availability of lock-in anchors will vary with the following frame profile changes:
 - Single rabbet – all details will vary.
 - Double rabbet – over 8 3/4" (222mm) jamb depth
- Installation caution notice:** When temperature conditions necessitate an additive to be used in the plaster or mortar to prevent freezing, the contractor installing the frames shall coat the inside of the frames in the field with a non-corrosive bituminous material.
- Installation shall conform to the published Steelcraft installations instructions, SDI 105 *Recommended Installation Instructions for Steel Frames*, and ANS/DHI A115-IG *Installation Guide for Doors and Hardware*.
- All fire rated frames must be installed in accordance with NFPA Pamphlet 80 and the Authority Having Jurisdiction.

ATTACHMENT 6

**Lead-Based Paint Inspection and
Settled Dust Sampling Report
For
Guthrie Armory**

FINAL ABATEMENT REPORTS

GUTHRIE ARMORY Final Documentation

720 East Logan Ave. Guthrie, OK

ODOL O&M, SSSD PROGRAM SUBMITTAL

AIR ANALYSIS REPORTS

WASTE MANIFESTS (FRIABLE & NON-FRIABLE)

Pictures (Before & After)



**OKLAHOMA DEPARTMENT OF LABOR
O AND M, SSSD and CLASS III PROGRAM SUBMITTAL**

CONTRACTOR: Mirage International Inc.	CONTRACTOR LICENSE #: 114810
CONTRACTOR'S PROGRAM MANAGER: Chrs Krisch	CONTRACTOR PHONE #: 405-879-9788
OWNER OF FACILITY: City of Guthrie	OWNER'S DESIGNATED PERSON: Rebecca Marfurt
NAME OF FACILITY: Guthrie National Guard Armory	BUILDINGS TO BE INCLUDED. (Be specific as to buildings/addresses or areas to be included. Attach list if necessary) National Guard Armory
FACILITY ADDRESS: 720 East Logan Ave, Guthrie, OK	
FACILITY PHONE NUMBER: N/A	

1. **PROCEDURES FOR DESIGNATED PERSON:**
 - a.) If a fiber release occurs, the Designated Person will isolate the area and notify the Contractor, who will contact the Department of Labor when required.
 - b.) The Designated Person will insure workers and building occupants are made aware of the presence and locations of asbestos containing materials. Occupants will be instructed not to disturb asbestos containing materials.
 - c.) The Owner's Designated Person will insure that no unlicensed persons will be permitted to conduct any O & M activities.

2. **CONTRACTOR'S RESPONSIBILITIES:**
 - a.) The Contractor will prepare all reports and collect the waste manifests and air monitoring reports to submit to the Department of Labor at the end of any month when work is conducted, within 30 days from the end of the month.
 - b.) The Contractor will provide the Designated Person with a copy of the Monthly Reports to be maintained on site as required. The Designated Person will insert the reports into the Management Plan or the Asbestos Activity File and maintain these documents for a period of 30 years.

The Contractor or the Designated Person may contact the DOL when any unusual circumstances occur. The Contractor is ultimately responsible for making required notifications to the DOL.

This Contract is good for a period of **One Year** from the date of this Submittal to the Department of Labor.
(Specify "One Time" or "One Year")

Signatures:

Contractor's Program Manager

Christopher Krisch

Date: 4/4/13

Owner's Designated Person

Rebecca K Marfurt

Date: 4/4/13

Certificate of Analysis / AA1

Project: Guthrie Armory 720 East Logan Avenue Guthrie, OK

Pump Number	Sample Number	Date Sampled	Time 1 On-Off	Time 2 On-Off	Collection Information	T Cass. Dia = 25 mm		PF = 1000	Field of View =		Pg. 1	OF 1	UCL 1
						Pairs Exp.	Flow Rate (L/M)		Fiber Count	Til. Time (Min.)			
-	1	4/9/13	-	-	BLANK	0	0	0.0	0	0.0	NA	NA	NA
-	2	4/9/13	-	-	BLANK	0	0	0.0	0	0.0	NA	NA	NA
1	3	4/9/13	8:03 AM 4:11 PM	-	Inside Area O&M glovebag, hep-vac & wet wipe work	2.00	2.00	2.0	488	976.0	BDL	0.001	0.004
2	4	4/9/13	8:33 AM 4:12 PM	-	Jayce Mills FF APR 400831 O&M glovebag, hep-vac & wet wipe work	<0.01	2.00	2.0	459	918.0	BDL	0.002	0.004
3	5	4/9/13	8:33 AM 4:12 PM	-	Christian Hill FF APR 400908 O&M glovebag, hep-vac & wet wipe work	<0.01	2.00	2.0	459	918.0	BDL	0.001	0.004
4	6	4/9/13	8:34 AM 4:12 PM	-	Outside Area O&M glovebag, hep-vac & wet wipe work	2.00	2.00	2.0	458	916.0	BDL	0.001	0.004

ANALYST PARTICIPATING IN LAB AIHA-151368
 NIOSH 7400 METHOD
 NC = Not Counted. Reasons: 1. Overload; 2. Damaged Filter; 3. Pump Failure; 4. Missing Filter

Notes:

Sage M. Pack

AM Technica JM Pack
 Location: Guthrie Armory 720 East Logan Avenue Guthrie, OK
 Contractor: Mirage International, Inc.
 Project Number:

I hereby certify that the above samples were analyzed in compliance with applicable standards and regulations.

Certificate of Analysis / AAI

Project: Guthrie Armory 720 East Logan Avenue Guthrie, OK

Pump Number	Sample Number	Date Sampled	Time 1 On-Off	Time 2 On-Off	Collection Information	T Cass. Dia = 25 mm		PF =		Field of View =		Pg. 1	Dot Limit	OF LCL	UCL
						Y Piers Exp.	Flow Rate (L/M) Pre Post	Fiber Count	Field Count	Til. Time (Min.)	Volume (Liters)				
-	1	4/8/13	-	-	BLANK	0	0	0.00	0.0	0	0.0	0.000	NA	NA	NA
-	2	4/8/13	-	-	BLANK	0	0	0.00	0.0	0	0.0	0.000	NA	NA	NA
1	3	4/8/13	9:20 AM - 4:23 PM	-	Inside Area Removal and bagging of floor tile	2.00	2.00	2.00	7.0	423	846.0	8.917	0.004	0.003	0.004
2	4	4/8/13	9:20 AM - 4:24 PM	-	Dallas Buchanan FF APR 400913 Removal and bagging of floor tile	<0.01	2.00	2.00	9.0	424	848.0	11.465	0.005	0.003	0.004
3	5	4/8/13	9:21 AM - 4:24 PM	-	Sam Reaser FF APR 400911 Removal and bagging of floor tile	<0.01	2.00	2.00	11.0	423	846.0	14.013	0.006	0.004	0.009
4	6	4/8/13	9:21 AM - 4:24 PM	-	Outside Area Removal and bagging of floor tile	A	2.00	2.00	2.0	423	846.0	2.548	BDL	0.001	0.004

I hereby certify that the above samples were analyzed in compliance with applicable standards and regulations.

Sage M. Pack

AM Technica JM Pack
 Location: Guthrie Armory 720 East Logan Avenue Guthrie, OK
 Contractor: Mirage International, Inc.
 Project Number:

ANALYST PARTICIPATING IN LAB A1HA-151368
 NIOSH 7400 METHOD
 NC = Not Counted. Reasons: 1. Overload; 2. Damaged Filter; 3. Pump Failure; 4. Missing Filter
 7/20/2010
 REV 1

Notes: These samples were collected in order for Mirage International's Competent person to determine a negative exposure assessment.

NON HAZARDOUS WASTE MANIFEST	1. Generator ID Number NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone	4. Manifest Tracking Number 4-22-131		
5. Generator's Name and Mailing Address <i>City of Guthrie former National Guard Armory 101 N. Second St. Guthrie, OK 73044 (405) 282-0496</i>			Generator's Site Address (if different than mailing address) <i>City of Guthrie former National Guard Armory 725 East Logan Avenue Guthrie, OK 73044 (405) 282-0496</i>			
6. Transporter 1 Company Name <i>Morgan International Inc.</i>			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address East Oak Landfill 3201 Mosley Rd Oklahoma City, OK 73141 Facility's Phone (800) 963-4776			U.S. EPA ID Number N/A			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	Friable Asbestos	104300OK		1	3	0
14. Special Handling Instructions and Additional Information Neshap Administrator Air Quality Control 405-702-1000 Oklahoma Dept of Environmental Quality 707 N Robinson, Oklahoma City, OK 73101						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations and is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law.						
Generator's/Offeror's Printed/Typed Name <i>Justin Creek</i>			Signature <i>Justin Creek</i>	Month 04	Date 22	Year 2013
Transporter Acknowledgement of Receipt Materials						
16. Transporter 1 Printed / Typed Name <i>Justin Creek</i>			Signature <i>Justin Creek</i>	Month 04	Date 22	Year 2013
17. Transporter 2 Printed / Typed Name <i>///</i>			Signature	Month	Date	Year
18. Discrepancy Comments						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
19. Management Method Codes 1 2 3 4						
20. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 18a Printed / Typed Name Signature Month Date Year <i>Patricia Mikels</i> <i>Patricia Mikels</i> 4 22 13						

NON HAZARDOUS WASTE MANIFEST		1. Generator ID Number NOT REQUIRED		2. Page 1 of 1		3. Emergency Response Phone		4. Manifest Tracking Number 4-22-132			
5. Generator's Name and Mailing Address City of Guthrie / Former National Guard Armory 101 N. Second St. Guthrie, OK 73044 1405)282-0496						Generator's Site Address (if different than mailing address) City of Guthrie / Former National Guard Armory 726 East Logan Avenue Guthrie, OK 73044 1405)282-0496					
6. Transporter 1 Company Name Morgan International Inc.								U.S. EPA ID Number			
7. Transporter 2 Company Name								U.S. EPA ID Number			
8. Designated Facility Name and Site Address East Oak Landfill 3201 Mosley Rd Oklahoma City, OK 73141 Facility's Phone (800) 963-4776								U.S. EPA ID Number N/A			
9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))						10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
Non Friable Asbestos						104301OK		BA	3y ³	0	
14. Special Handling Instructions and Additional Information						Neshap Administrator Air Quality Control 405-702-1000 Oklahoma Dept of Environmental Quality 707 N Robinson, Oklahoma City, OK 73101					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations and is (are) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law.											
Generator's/Offeror's Printed/Typed Name Justin Creek						Signature Justin Creek		Month 04	Date 22	Year 2013	
16. Transporter 1 Printed / Typed Name Justin Creek						Signature Justin Creek		Month 04	Date 22	Year 2013	
17. Transporter 2 Printed / Typed Name ///						Signature		Month	Date	Year	
18. Discrepancy Comments											
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
19. Management Method Codes											
1			2			3			4		
20. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in item 18a											
Printed / Typed Name Patreece Mikels						Signature Patreece Mikels		Month 4	Date 22	Year 13	

Guthrie Armory Before and After Pictures

720 E. Logan Avenue

Guthrie, Oklahoma



MIRAGE INTERNATIONAL, INC

901 NW 80TH STREET

Oklahoma City, Oklahoma 73114

(Before)

Guthrie Armory Pics

(After)



(Top) Room #19, south end of building

(Bottom) Adjacent bathroom





(Top) Bathroom #1



(Bottom) Bathroom #2





(Top & Bottom) Main hall, Room #20



(Top) Room #6

(Bottom) Flue Pipe at west end of Room #6





(Top) Room #8, (Bottom) Room #10





Room #11

RECEIVED

MAR 06 2014

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

**Final Report
of
Guthrie Armory
Lead Based Paint Remediation
CAP Project # 13309**

Performed at:

Guthrie Armory
720 Logan Ave. East
Guthrie, Oklahoma
73044

Performed for:

The State of Oklahoma
and
Oklahoma Department of Environmental Quality

Performed by:



**1414-B S.W. 89th Street
Oklahoma City, OK 73159
(405) 759-7328**

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- APPENDIX B – CHANGE ORDER DOCUMENT
- APPENDIX C – LABORATORY RESULTS & CHAIN OF CUSTODY RECORDS
- APPENDIX D – WASTE WATER DISCHARGE LETTER FROM CITY OF GUTHRIE
- APPENDIX E – DISPOSAL PLAN FOR HAZARDOUS WASTE
- APPENDIX F – DISPOSAL OF HAZARDOUS WASTE MANIFEST

STATEMENT OF WORK

For

Remediation of Lead-Based Paint and Lead Contamination at Guthrie Armory

The Oklahoma Department of Environmental Quality (DEQ) is requesting bids from qualified bidders for remediation services at a former National Guard armory located in Guthrie, Oklahoma. This statement of work (SOW) describes the cleanup of lead contamination associated with the indoor firing range (IFR), lead contaminated dust on the floors of the building and lead-based paint (LBP) located on surfaces throughout the building. This work must be performed to provide for safe re-use of the facility with unrestricted use such as storage areas, classrooms, or office space. A mandatory site visit and walk through will be held to give a better understanding of the site. A floor plan map of the Guthrie Armory is attached for review (Attachment 1).

The building is located at 720 East Logan Avenue, Guthrie, Oklahoma 73044. The building does have available water and electricity to use during remediation.

SPECIAL PROVISIONS:

1. **Work Schedule:** The Contractor shall schedule all work to be complete within 90 days after date of the written "Notice to Proceed".
 - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Scope of Work and answer any questions the contractor may have.
 - b. All on-site work shall be completed by the Contractor five (5) days prior to the scheduled contract completion date, with the remaining five (5) days utilized for final inspection and correction of all deficiencies.
2. **Conditions of Work:** The following conditions of work will apply in accomplishment of this contract:
 - a. All work shall be performed in accordance with all applicable State and Federal regulations.
 - b. The contractor shall perform this work in such a manner as to cause a minimum of interruption to normal work being performed in the contract area.
 - c. Coordination of work areas shall be scheduled with DEQ.
 - d. Disposal of Removed Materials: All materials removed by the Contractor under this contract shall be disposed of in accordance with State and Federal regulations. DEQ will sign as generator, if necessary.

CONTRACTOR SHALL:

- Attend mandatory pre-bid meeting and site walk through;
- Possess a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Follow all appropriate OSHA requirements;
- Follow OSHA Lead in Construction Interim Final Standard (29 CFR 1926.62) for lead-based paint abatement, indoor firing range remediation, and lead dust remediation;
- Read Guidelines for Rehabilitation and Conversion of Indoor Firing Ranges, November 3, 2006, Departments of the Army and Air Force, National Guard Bureau (Attachment 2), and refer to this document as a reference and guideline for remediating IFR lead contamination.

Submit With Bid:

- Copy of lead-based paint firm license;
- Copy of lead-based paint supervisor license;
- Three references with name, type of project, phone number, and location of similar work in the last three years.

Submit After Contract Award:

- A Work Plan with planned activities and schedule to DEQ for approval.

LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

• Non-Friction and Non-Impact Surfaces

- All items listed below shall be wet scraped, painted with a neutral colored primer, and encapsulated with DEQ approved elastomeric encapsulant. A list of DEQ approved elastomeric encapsulants is attached (**Attachment 4**). Encapsulant shall be a minimum of 20 mils thick. The Lead-Based Paint and Settled Dust Sampling Report with floor plan maps detailing the locations of the lead-based paint is attached for review (**Attachment 6**);
 - All Down Spouts (Roof Drains);
 - All Window Lintels;
 - All Window Sills;
 - All Overhead Door Frames, Guards, and Casings;
 - The Indoor Firing Range external vent fan surround and lintel;
 - The indented slots on exterior (Side A) of building;
- The drill floor hand rails shall have all paint removed and then be painted with a neutral colored primer;
- All interior window bars will be removed and properly disposed;
- Deteriorated paint removed from building surface will be properly disposed.

• Friction and Impact Surfaces

Doors and Frames (See Attachment 5)

- A Door-Scope of Work with map, door measurements, and specific details on abatement requirements for each door is attached (**Attachment 5**);
- Specifications for replacement items are attached (**Attachment 5**);
- Doors will be replaced with UL listed 90 minute standard metal doors;
- Doors will be replaced with Steelcraft L18 and L16 – Series Honeycomb Doors (Specifications Attached) or equivalent;
- Contractor must submit product data for approval if different from doors or door frames in bid package;
- Replacement doors and frames must meet all compliance and fire rating requirements in the attached specifications;
 - a. **Exterior Doors**
 - Exterior doors will be replaced with galvanized, 16 gage, honeycomb core insulated doors;
 - Continuous Geared Door Hinges: As manufactured by Pemko or approved equal – Satin Nickel – Half Surface Safety Hinges: Standard (Specifications Attached);
 - Threshold: As manufactured by National Guard Products or approved equal – 426E (Specifications Attached);
 - Weather Strip: As manufactured by National Guard Products or approved equal – 160VA (Specifications Attached);
 - Lever: As manufactured by Schlage or approved equal – D Series “Rhodes”, 626 finish, function ND60PD (Specification Attached);

- Keying: All doors to be keyed alike;
- Provide sealant per 07920 specification attached.
- b. Interior Doors (All Except Indoor Firing Range Door)**
 - Interior doors will be replaced with non-galvannealed, 18 gage, honeycomb core insulated doors;
 - Continuous Geared Door Hinges: As manufactured by Pemko or approved equal – Satin Nickel – Half Surface Safety Hinges: Standard (Specifications Attached);
 - Knob: As manufactured by Schlage or approved equal – A Series “Orbit”, 626 finish, function A10S (Specification Attached);
 - Provide sealant (caulking) per 07920 specification attached.
- c. Indoor Firing Range Door**
 - Door will be replaced with non-galvannealed, 18 gage, honeycomb core insulated doors;
 - Frame will be replaced with Steelcraft F16 and F14 Series Flush frames (Specifications Attached) or equivalent;
 - Knob: As manufactured by Schlage or approved equal – A Series “Orbit”, 626 finish, function A10S (Specification Attached);
 - Provide sealant (caulking) per 07920 specification attached.
- **Clearance Inspection**
 - Once lead-based paint has been removed from surfaces, DEQ will perform a visual inspection to confirm lead-based paint has been removed appropriately before surfaces are painted or sealed.
 - Once lead-based paint abatement is complete and after room floors are cleaned, contact Marshall Environmental Management to perform post abatement clearance sampling in these areas. See Section C (Confirmation and Clearance Sampling) for additional information.
 - If samples do not meet EPA and HUD standards for lead dust (40 µg/SF for floors), areas shall be re-cleaned and re-sampled.
- **Sampling and Disposal**
 - DEQ assumes that all lead-based paint chips removed from surfaces are considered hazardous waste. Lead-based paint removed from surfaces shall be disposed as hazardous waste.
 - If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the Contractor’s responsibility to characterize this waste under 40 CFR 262.11 and if they are determined to be hazardous waste, disposing of them as such. The Final Report shall contain all relevant information regarding the waste determination.
 - A completed and signed waste manifest, Land Disposal Notification Form, and Certificate of Disposal demonstrating that the paint chips were properly disposed at a hazardous waste facility must be included in the Final Report.

LEAD DUST REMEDIATION INSTRUCTIONS

Sequence of Events

The initial cleaning of the building shall be as follows:

1. First Phase –
 - a. The indoor firing range (IFR) shall be cleaned (See *Section 1. Indoor Firing Range (IFR)* below for details).
 - b. The Drill Floor and Stage Rooms shall be cleaned (See *Section 2. Remaining Building* for details).
2. Second Phase –
 - a. All floors of the remaining building shall be cleaned (See *Section 2. Remaining Building* for details).
 - i. Once the First Phase is complete there will be a one to two week delay before starting the Second Phase.

1. Indoor Firing Range (IFR)

The IFR in these buildings is a long narrow basement room with attached small side room where the Oklahoma Military Department would target practice with weapons. Sometimes the IFR will have a steel bullet deflection plate and sand trap. The IFR is to be cleaned by removal of all lead contaminated materials, including debris (if present), sand (if present), steel plate (if present), lead-based paint (if present), and lead contaminated dust and other lead containing particulates on the floor, walls, and ceiling of the IFR.

• Pre-remediation Preparation

- To ensure cross contamination does not occur, use engineering controls such as:
 - Sealing openings with 6 mil poly sheeting to contain dust inside IFR;
 - Covering floor of area outside IFR with 6 mil poly sheeting to make sure not to track lead dust into clean areas;
 - Securing IFR at the end of the work day. At no time shall the IFR be accessible for unauthorized entry without the contractor present;
- When inside IFR wear appropriate personal protective equipment (See Attachment 3).

• Water Removal

- All wash water from the IFR shall be filtered through a 1 micron filter and then sampled for total lead and total phosphorus. Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3. Wash water shall be disposed appropriately. Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility.

• **Pre-remediation Removal**

- Decontaminate door to IFR side room, remove from frame, wrap in poly sheeting, and properly dispose;
- Remove all paint from side room door frame to bare metal and paint frame with neutral colored primer;
- Sand Trap:
 - Decontaminate metal backstop, wrap in poly sheeting and properly dispose;
 - Decontaminate sand trap framework, wrap in poly sheeting and properly dispose;
 - Place sand in sealed drums and dispose of sand as hazardous waste.
- Decontaminate all items to be removed from the IFR, wrap in poly sheeting, and properly dispose.
 - Items such as acoustical tiles, carpet, or other porous materials shall be HEPA vacuumed, washed, and sampled for TCLP. Acoustical tile, if present, will have 3 – five part composite samples taken. All other materials shall have 1 – five part composite sample taken of each material. If samples pass TCLP then properly dispose. If any samples fail TCLP, dispose of that item as hazardous waste.

• **Remediation**

- HEPA vacuum and wet wash walls, floor, ceiling, vent fan, and other structures that are contaminated;
- Dispose lead contaminated dust, wash water, and appropriate cleaning materials as hazardous waste or as appropriate (See section 3. Disposal of Materials for detailed information).

• **Post-remediation**

- All post-remediation sampling shall be performed by Marshall Environmental Management (MEM). The Contractor shall provide MEM a minimum of five (5) calendar days prior notice to perform sampling. See *Section 4. Confirmation and Clearance Sampling* for contact information;
- Post remediation sampling is required to confirm the IFR has been remediated to 200 micrograms per square foot (ug/SF);
 - Areas above 200 ug/SF shall be re-cleaned and re-tested until results are at or below 200 ug/SF;

- If surfaces of the IFR cannot be cleaned and DEQ determines that these surfaces contain imbedded lead fragments, construction grout shall be used over these surfaces.
 - Surfaces shall be thoroughly cleaned;
 - A two part epoxy mixture designed for concrete shall be applied to surfaces according to manufacturer's specifications. Use Epoxy-Coat Garage Floor Coating Kit or equivalent. Specifications are attached (Attachment 5);
- Once the IFR has been remediated to 200 ug/SF, seal the floor, ceiling, and walls with appropriate sealant;
 - Floor, ceiling, and walls will be sealed with KM-669 Acrylic Sealer or equivalent. Specifications attached (Attachment 4);
 - IFR area will have forced air applied to room 4 days after sealer is applied. This will be done to remove all vapors from the area;
- After surfaces are sealed, the Contractor shall provide MEM a minimum of five (5) calendar days prior notice to perform post remediation wipe sampling to confirm the IFR has been remediated to 40 ug/SF;
- Areas above 40 ug/SF shall be cleaned to remove lead dust from sealed surface. Once cleaned, the area shall be retested to confirm area has been remediated to 40 ug/SF;
- All re-testing of previously failed areas shall be performed by MEM. Contractor shall provide MEM a minimum of five (5) calendar day's prior notice to perform sampling.
- The chart below summarizes the clearance numbers for the indoor firing range. All lead wipe samples must be at or below these numbers in order for the room to be considered clean.

Post Remediation	Post Sealant
200 ug/SF	40 ug/SF

2. Remaining Building

Lead Dust Remediation (See Attachment 6)

- Properly clean up any large oil, grease, etc. spills on the floors and properly dispose before lead remediation begins;
- Surfaces above the floors such as walls, shelves, etc. may have accumulated dust that has settled. This accumulation shall be removed prior to the cleaning of the floors. This shall be done to prevent recontamination of the floors after they are cleaned.
- Floors of the entire building shall require lead dust remediation;
 - Remove dust from all equipment, shelving, trash, etc, and remove these items from room before remediation begins;
 - Remove dust from all carpet, remove carpet from rooms, and dispose of all carpet as non-hazardous waste before lead dust remediation of floor begins;
 - Dispose any materials, determined by the DEQ to be trash, as non-hazardous waste;
 - HEPA vacuum and wet wash floors of entire building;
 - Lead levels on the floor are high in many areas of the building and lead contaminated dust may be ground into the pores and cracks of the concrete. It may be necessary to clean floors several times or use alternate cleaning methods after HEPA vacuuming and wet washing to remove the lead dust from the concrete and get the lead levels down to 40 micrograms per square foot (ug/SF).
 - Contact Marshall Environmental Management (MEM) to perform independent third-party post remediation wipe sampling to confirm that room floors with lead contamination have been appropriately remediated to 40 micrograms per square foot (ug/SF). See Section 4 (Confirmation and Clearance Sampling) for additional information;
 - Areas above 40 ug/SF shall be re-cleaned and re-tested until results are at or below 40 ug/SF;
 - Lead dust and appropriate cleaning materials shall be disposed as appropriate.
 - Wash Water Disposal
 - All wash water from the building shall be filtered through a 1 micron filter and stored on site in containers;
 - The wash water will be sampled for total lead and total phosphorus; Total lead shall be run by ICP and total phosphorus shall be run by EPA Method 365.3;
 - Sample results shall be submitted to DEQ to determine if wash water can be disposed at the local Waste Water Treatment Facility;
 - Wash water shall be disposed appropriately.

3. Disposal of Materials

Hazardous Waste

- Lead contaminated sand shall be disposed as hazardous waste;
- Lead contaminated dust from the cleaning of the IFR and remaining building shall be disposed as hazardous waste;
- Wash water filters shall be disposed as hazardous waste;
- Mop heads, towels, brushes, wipes, and other cleaning supplies shall be disposed as hazardous waste.

Other

- Poly Sheeting shall be disposed as appropriate. If contractor plans to dispose as non-hazardous waste, best management practices such as vacuuming, washing, wiping down, or cleaning poly sheeting prior to disposal shall be implemented.
- Personal protective equipment (gloves, tyvec, face masks, etc.) shall be disposed as appropriate.

4. Confirmation and Clearance Sampling

- Contractor may use his own lab to check progress of remediation, however all DEQ decisions shall be based on analytical data from MEM.
- Marshall Environmental Management (MEM) will be responsible for taking all post remediation samples.
- MEM shall be notified five (5) days prior to each sampling event.
- Contact Information: **Marshall Environmental Management Inc.**
1601 Southwest 89th Street, Suite 100-A
Oklahoma City, Oklahoma 73159
Contact: Sara Marshall
Phone: (405) 616 – 0401
- The third-party sampling shall not be included in the contractors base bid;
- All post remediation sampling done outside the indoor firing range will be performed after all initial abatement, remediation, and cleaning is complete.
- The chart below summarizes the clearance numbers for the building. All lead wipe samples shall be at or below these numbers in order for these areas to be considered clean.

IFR Post Remediation	IFR Post Sealant	Room Floors
200 ug/SF	40 ug/SF	40 ug/SF

Guthrie Armory Door Measurements And Scope of Work

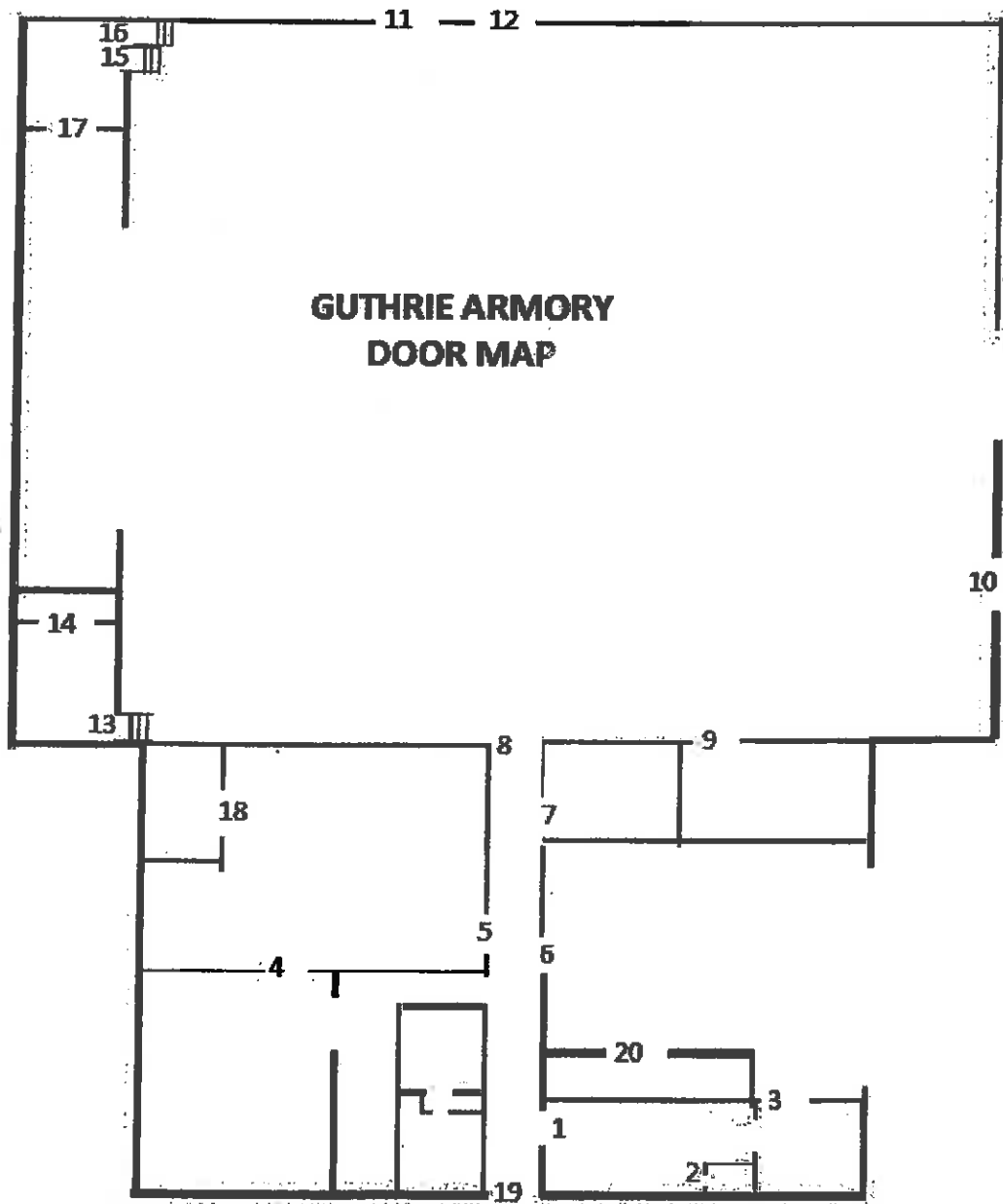
- **Door measurements are listed as approximate Width X Height; Contractor to field verify.**
 - **All removed doors will be properly disposed.**
 - **All removed lead-based paint will be properly disposed.**
 - **Attached is a Guthrie armory Floor Plan with designated door numbers that correspond with the numbers on this Scope of Work.**
 - **Specifications for replacement doors are attached.**
-
1. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous gear hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
 2. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'4" X 7'
 3. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
 4. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 2'8" X 7'
 5. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 4' X 7'
 6. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 4' X 7'

7. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
8. Remove double doors. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Double Door Measurements – 6' X 7'
9. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
10. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
11. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
12. Remove all paint from door frame. Once paint is removed, paint frame with neutral colored primer.
13. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
14. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
15. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'
16. Remove and replace door and door frame.
Door Measurements – 3' X 7'
Approximate Opening Size – 3'5" X 7'6"
17. Remove door. Remove all paint from door frame. Install replacement door equipped with continuous geared hinges. Original frame will be painted with a neutral colored primer.
Door Measurements – 3' X 7'

18. Remove all paint from vault door and door frame. Once paint is removed, paint door and frame with neutral colored primer.
19. Remove all paint from original outer door frame. Once paint is removed, paint frame with neutral colored primer.
20. Remove door and frame. Do not replace.

**Guthrie Armory
720 Logan Ave, East Guthrie, Oklahoma 73044**

February 18, 2014



Statement of Certification

Facility Name: Guthrie Armory

Facility Address: 720 Logan Ave East
Guthrie, Oklahoma, Ok 73044

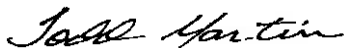
Date of work: October 2013- February 2014

Consulting Firm Name: SAFETY TECH, INC.

Consulting Firm Address: 1414- B S.W. 89th STREET
OKLAHOMA CITY, OK 73159

Consulting Firm Phone: (405) 759-7328

I hereby certify that the inspection referenced by this report, and the report itself, were conducted by an Oklahoma state certified inspector and reviewed by a licensed management planner.



PROJECT MANAGER SIGNATURE

Printed Name: Todd L Martin, IH

Title: Lead Base Paint Supervisor and Risk Assessor

Certification No.: #OKSUVR11267 Expires: 3/31/2014
#OKRASR11058 Expires: 3/31/2014

APPENDIX A

PHOTO DOCUMENTATION OF WORK

Typical original condition of a painted exterior masonry.



Typical masonry after lead base paint stabilization.



Typical original condition of a painted metal door jamb.



Typical original condition of a painted metal handrail.



Typical conditon of a striped metal handrail.



Typical conditon of a striped metal door jamb



Typical condition of a striped metal door jamb



Typical conditon of a striped metal door jamb



Typical conditon of a striped metal door jamb



Typical condition of a striped metal door jamb.



Typical condition of a striped metal handrail.



Safe door after lead paint was removed and primer.



Typical conditon of a primed metal door jamb



Typical conditon of a primer handrail.



Typical primed metal handrail.



Typical interior window sills that have been cleaned and had primer applied.



Typical installation of the new metal doors.



Typical installation of the new metal doors.



This area had red lead paint on floor that was removed, cleaned and sealed.



This area had yellow lead paint on floor that was removed, cleaned and sealed.



Typical area was suspect asbestos mastic was removed and floor cleaned.



Typical area where suspect asbestos mastic was removed and floor cleaned.



Storage of contaminated soil/sand from the firing range.



Storage of waste water and used PPE.



APPENDIX B
CHANGE ORDER DOCUMENT



Purchase Order

Dept of Environmental Quality
 OK DEPT OF ENVIRONMENTAL QUALITY
 SHIPPING & RECEIVING
 707 N ROBINSON
 OKLAHOMA CITY OK 73102

Vendor: 0000234095
 SAFETY TECH INC
 1414 SW 89TH ST STE B
 OKLAHOMA CITY OK 73159-6312

CHANGE ORDER

Dispatch via Print

Purchase Order 2929017688	Date 08/14/2013	Revision 1 - 02/13/2014	Page 1
Payment Terms 0 Days	Freight Terms Free on board at Destination		Ship Via Common
Buyer Sarah Critchfield (580)	Phone 405/522-0047		Currency USD

Ship To: OK DEPT OF ENVIRONMENTAL QUALITY
 SHIPPING & RECEIVING
 707 N ROBINSON
 OKLAHOMA CITY OK 73102

Bill To: OK DEPT OF ENVIRONMENTAL QUALITY
 ADMINISTRATIVE SERVICES
 PO BOX 1677
 OKLAHOMA CITY OK 73101-1677

Tax Exempt? N **Tax Exempt ID:**

Line-Sch	Cat CD / Item Id	Description	Quantity	UOM	PO Price	Extended Amt	Dus Date
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1- 1	77111602 / 1000002278	ENV REMEDIATION SERVICES:Task XXV Per Diem Unit Cost Rate-Environmental Remediation Services. Furnish All Labor, Materials & Equipment Necessary Task XXV. Per diem unit cost rate	1.0000	SUM	71,455.5000	71,455.50	08/14/2013
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LEAD BASED PAINT AND LEAD DUST REMEDIATION FOR GUTHRIE ARMORY

VENDOR TO BE DETERMINED AFTER BIDDING

Total PO Amount

71,455.50

COMMENTS:

 Funding change TS 11/5/13:

Updated funding to FY14. PO created 8/14/13, no work done in FY13.

CAP #13309
 Rebekah Richardson
 PH: 405-522-0050
 EMAIL: rebekah.richardson@omes.ok.gov
 CAP Project Manager

FY 2013

PROJECT:SITE CLEANUP ASSISTANCE PROGRAM-GUTHRIE ARMORY LEAD REMEDIATION

JUSTIFICATION: UNDER THE SITE CLEANUP ASSISTANCE PROGRAM
 THE DEQ WILL HIRE A LICENSED PROFESSIONAL TO REMEDIATE
 LEAD-BASED PAINT AND LEAD DUST IN THE GUTHRIE ARMORY.

FOR AGENCY USE ONLY

CONTACT: LAND PROTECTION DIVISION/LINDA YARBER/405/702-5110
 linda.yarber@deq.ok.gov OR dustin.davidson@deq.ok.gov

CONTRACT RELATED ISSUES EMAIL: karen.rumsey@deq.ok.gov

DEQ IS AN EQUAL OPPORTUNITY EMPLOYER

FUNDING: 493

REQUISITION # 29290003391

Authorized Signature



Purchase Order

Dept of Environmental Quality
 OK DEPT OF ENVIRONMENTAL QUALITY
 SHIPPING & RECEIVING
 707 N ROBINSON
 OKLAHOMA CITY OK 73102

Vendor: 0000234096
 SAFETY TECH INC
 1414 SW 69TH ST STE B
 OKLAHOMA CITY OK 73159-6312

CHANGE ORDER

Dispatch via Print

Purchase Order	Date	Revision	Page
3929017587	02/14/2013	1	2
Payment Terms	Freight Terms	Ship Via	Carrier
5 Days	Free on board at destination		
Buyer	Phone	Currency	Unit
Jarah Critchfield (800)	405/522-8827		

Ship To: OK DEPT OF ENVIRONMENTAL QUALITY
 SHIPPING & RECEIVING
 707 N ROBINSON
 OKLAHOMA CITY OK 73102

Bill To: OK DEPT OF ENVIRONMENTAL QUALITY
 ADMINISTRATIVE SERVICES
 PO BOX 1877
 OKLAHOMA CITY OK 73101-1877

Tax Exempt? N Tax Exempt ID:
 Line-Sch Cat CD / Item Id Description

Quantity UOM PO Price Extended Amt Due Date

4/16/2013

02/13/14 - CO 1 - Remove life benefit carpet & could not clean intensive adequately. Was not tested assumed AB. Remove LBD strips off floor reduce floor, seal floor, apply 315. THE CONTRACT SUM IS INCREASED BY \$6,012.00. SNC

Authorized Signature



State of Oklahoma
Office of Management and Enterprise Services
Division of Capital Assets Management
Construction and Properties

Change Order

IMPORTANT NOTE: THE WORK DESCRIBED HEREIN IS NOT AUTHORIZED UNTIL THIS CHANGE ORDER IS COMPLETED AND SIGNED BY ALL ENTITIES LISTED BELOW. DO NOT PROCEED WITH WORK UNTIL THE CHANGE ORDER IS COMPLETED AND SIGNED BY EACH PARTY.

This form is required and shall be prepared by the Contractor. All costs must be broken down.

DATE: 12-27-13 P. O. NUMBER: 7929017698 CAP PROJECT NUMBER: 13309

FROM PROPOSAL REQUEST NUMBER(S): _____ CONTRACT NUMBER: _____

PROJECT NAME: Guthrie Armory Lead Paint + Dust Remediation DCAM/CAP PROJ. MANAGER: Rebekah Richardson

CONTRACTOR: Safety Tech, Inc. CHANGE ORDER NUMBER: 01

BRIEF DESCRIPTION OF CHANGE:

Remove tile beneath carpet & could not clean adhesive adequately
WAS NOT TESTED ASSUMED A/B.

REMOVE LBP STRIPS OFF FLOOR RECLEAN FLOOR, SEAL FLOOR, APPX 315 SF

BRIEF DESCRIPTION OF TIME DELAY:

Not valid until signed by the Contractor, Consultant and Authorized CAP Representative.

The original Contract Sum Guaranteed Maximum Price was \$ 63,449.00
Net change by previously authorized Change Orders \$ 0.00
The Contract Sum Guaranteed Maximum Price prior to this Change Order was \$ 63,449.00
The Contract Sum Guaranteed Maximum Price will be increased decreased unchanged
by this Change Order in the amount of \$ 8012.50
The new Contract Sum Guaranteed Maximum Price including this Change Order will be \$ 71,455.50
The Contract Time will be increased decreased unchanged by 0 Calendar Days
The date of Substantial Completion as of the date of this Change Order therefore is _____ Date

APPROVALS:

Safety Tech INC. _____ [Signature] _____ 1-31-14
Contractor Name Signature Date

Consultant Name _____ Signature _____ Date: _____
ODEQ _____ [Signature] _____ 2-4-14
Using Agency Signature Date
GL Unit: _____ Acct: _____ Sub-Acct: _____ Fund Type: _____ Class _____ Fund: _____ Dept: _____ Bud Ref: _____

OCIA Funding Approval (if applicable) Initials: _____

Mike Jones _____ [Signature] _____ 2.13.14
Authorized CAP Representative Signature Date

Rebekah Richardson _____ [Signature] _____ 2.12.14
DCAM/CAP Project Manager Signature Date

Memorandum

February 4, 2014

To: Catherine Sharp, Acting Division Director *CS*

Through: Angela Hughes, Environmental Programs Manager *AH 2/4/14*

From: Dustin Davidson, Environmental Programs Specialist *DD*

Re: Change Order for Guthrie Armory Lead Remediation, (DCAM# 13309)

During remediation of the Guthrie Armory additional floor tile and mastic was discovered under carpet in a large office room. Also, deteriorated paint stripes on the floor of a storage room were causing lead in dust levels on the floor to increase after each cleaning.

Safety Tech removed the floor tile, mastic and paint stripes and sealed the floor containing the paint stripes with a two part epoxy coating.

Attached is a Change Order increasing the cost of the project by \$9,012.50.

Please sign and return to my desk.

RK

Joyce Stribling

From: Kelton, Kendall <kendall.kelton@deq.ok.gov>
Sent: Friday, February 07, 2014 3:41 PM
To: OMES DCAM Email_CAP
Subject: 2929017688 CHANGE REQUEST
Attachments: 17688 CHANGE ORDER REQUEST.pdf



Please let me know if there is anything more needed to aid with this change request.
Thank you

Division of Capital Assets Management
Construction & Properties

Kendall Kelton
Contracting & Acquisitions Agent III, CPO
Administrative Services
Department of Environmental Quality
707 N. Robinson, P.O. Box 1677
Oklahoma City, OK 73101-1677
405.702.1166
KENDALL.KELTON@DEQ.OK.GOV

APPENDIX C

**LABORATORY RESULTS
&
CHAIN OF CUSTODY RECORDS**

Laboratory Analytical Report



**ENVIRONMENTAL
TESTING, INC.**

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

06 February 2014

Mr. Todd Martin

Safety Tech, Inc.

1414-B S.W. 89th St.

Oklahoma City, OK 73159

WO: E4A0518

RE: GA

Enclosed are the results of analyses for samples received by the laboratory on 01/31/14 11:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

President



4619 N. Santa Fe
 Oklahoma City, OK 73118
 405.488.2400 Phone
 405.488.2404 Fax
 www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 1

E4A0518-01 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	7550	100	mg/Kg	100	ECB0082	JDZ	02/06/14 12:37	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Russell Britten, President



ENVIRONMENTAL TESTING, INC.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 2

E4A0518-02 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method
Lead	5580	100	mg/Kg	100	ECB0082	JDZ	02/06/14 12:40	EPA 6010C
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 3

E4A0518-03 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	869	10.0	mg/Kg	10	ECB0082	JDZ	02/06/14 12:43	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 4

E4A0518-04 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	1390	10.0	mg/Kg	10	ECB0082	JDZ	02/06/14 12:46	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 6

E4A0518-05 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	1310	10.0	mg/Kg	10	ECB0082	JDZ	02/06/14 12:50	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 7

E4A0518-06 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	30600	100	mg/Kg	100	ECB0082	JDZ	02/06/14 12:53	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

Russell Britten, President

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 8

E4A0518-07 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	110000	1000	mg/Kg	1000	ECB0082	JDZ	02/06/14 13:16	EPA 6010C	
Metal: Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 10

E4A0518-08 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method
Lead	11100	100	mg/Kg	100	ECB0082	JDZ	02/06/14 13:19	EPA 6010C
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050

Environmental Testing, Inc.

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Russell Britten, President



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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

Metals by EPA 6000/7000 Series Methods - Quality Control
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch ECB0082 - EPA 3050

Blank (ECB0082-BLK1)				Prepared & Analyzed: 02/06/14						
Lead	<1.00	1.00	mg/Kg							
Metals Digestion	Completed		N/A							
LCS (ECB0082-BS1)				Prepared & Analyzed: 02/06/14						
Lead	103	1.00	mg/Kg	100		103	80-120			
Metals Digestion	Completed		N/A							
Duplicate (ECB0082-DUPI)				Source: E4A0489-01RE1 Prepared & Analyzed: 02/06/14						
Lead	4.21	1.00	mg/Kg		3.74			12	20	
Metals Digestion	Completed		N/A							
Matrix Spike (ECB0082-MS1)				Source: E4A0489-01RE1 Prepared & Analyzed: 02/06/14						
Lead	84.5	1.00	mg/Kg	100	3.74	81	75-125			
Metals Digestion	Completed		N/A							
Matrix Spike Dup (ECB0082-MSD1)				Source: E4A0489-01RE1 Prepared & Analyzed: 02/06/14						
Lead	81.1	1.00	mg/Kg	100	3.74	77	75-125	4	20	
Metals Digestion	Completed		N/A							

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	04/01/2014
NELAP	NELAP Accredited	10002	06/30/2014
ODEQ	Oklahoma Accredited	2013-063	08/31/2014
TCEQ	Texas Accredited	T104704498-13-3	03/31/2014

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

Notes and Definitions

- COM Completed
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- x Non-Certified analyte

Environmental Testing, Inc.

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Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4639 NORTH SANTA FE AVE
 OKLAHOMA CITY, OK 73118
 (405) 495-2400
 FAX (405) 498-2404



CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1
 SAMPLE SERIES # 15410518
 SHARED KEYS FOR LABORATORY USE ONLY

COMPANY: Society Tech Inc
 ADDRESS: 1414 S. CO. 94th St
 PHONE #: 405 838 2665
 EMAIL: Society Tech & Consulting.net
 P.O. #:
 CLIENT CONTACT: Todd Martin
 PROJECT #: GA /MANAGER:
 SITE LOCATION: GA

ETI SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER			SAMPLING		PRESERVATIVES	ANALYSIS	LAB COMMENTS
			TYPE	SIZE	#	DATE	TIME			
1	GAS 1	2	4oz	GA	1	4/3/14	10:22	NONE		
2	GAS 2									
3	GAS 3									
4	GAS 4									
5	GAS 5									
6	GAS 6									
7	GAS 7									
8	GAS 8									

RECEIVED ON ICE: Y N @ 10:22
 EQUIPMENT #: COMB
 REQUESTED TURNAROUND TIME: REGULAR (5 DAYS) 3 DAYS 2 DAYS 1 DAY
 RUSH REQUIRED: (ADDITIONAL FEES MAY APPLY)
 RECEIVED BY: Tim
 DATE: 4/3/14
 TIME: 11:55 am
 RECEIVED BY: Tim
 DATE: 4/3/14
 TIME: 1:55
 COMMENTS: 4 7 10

REINQUISHED BY: Teri Martin
 RECEIVED BY: Tim
 DATE: 4/3/14
 TIME: 1:55
 COMMENTS: 4 7 10



ENVIRONMENTAL TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # E4A018

- 1. Were samples received on ice? YES NO
- 2. Temperature of representative sample or temperature blank 11.6 °C
- 3. If the temperature is ≤ 0°C, was the representative sample or temp blank frozen? YES NO NA
- 4. Did all containers arrive in good condition (unbroken)? YES NO
- 5. Were VOA vials received? YES NO
 - a. Was there any observable headspace present in any VOA vial? YES NO NA
- 6. Were the correct containers used for the analysis requested? YES NO
- 7. Was there sufficient amount of sample to perform the requested tests in each container? YES NO
- 8. Were the samples received with sufficient time left to meet holding time requirements? YES NO
- 9. On preserved containers, did pH strips suggest preservation reached the correct pH level? YES NO NA
(DO NOT OPEN VOA VIALS TO CHECK pH)
 - Acid Preserved ≤2 Other _____ Base Preserved ≥12 Other _____
- 10. Did the containers indicate the correct preservatives were used for the requested analysis? YES NO NA
- 11. Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)? YES NO
- 12. If samples were not in compliance, was the client notified of the nonconformity? YES Date: _____ Initial: _____
 - a. If yes, does the client wish to proceed with analysis? YES NO
- 13. Was the client notified of the intent to subcontract work that will NOT be performed by ETI? YES Date: _____ Initial: _____

Preservative ID(s) _____

I certify that all of the above checks were completed. (Initial) OTV

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container. (Initial) OTV

Notes:

Report and Accompanying Data Reviewed by: _____ Date: _____

Laboratory Analytical Report



**ENVIRONMENTAL
TESTING, INC.**

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

04 February 2014

Mr. Todd Martin

Safety Tech, Inc.

1414-B S.W. 89th St.

Oklahoma City, OK 73159

WO: E4A0491

RE: GA

Enclosed are the results of analyses for samples received by the laboratory on 01/30/14 13:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten

President



4619 N. Santa Fe
 Oklahoma City, OK 73118
 405.488.2400 Phone
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 www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/04/14 14:30
--	---	-----------------------------

GAW1
E4A0491-01 (Aqueous) - Sampled: 01/29/14 15:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Conventional Chemistry Parameters by Standard Methods **T-01**

Orthophosphate as P	0.390	0.200	mg/L	1	ECB0001	LSB	01/31/14 09:55	SM 4500-PE Mod	
---------------------	-------	-------	------	---	---------	-----	----------------	----------------	--

Metals by EPA 200 Series Methods **P-01**

Lead	<0.0100	0.0100	mg/L	1	ECB0013	JDZ	02/03/14 15:29	EPA 200.7	
Metals Digestion	Completed		N/A		ECB0013	JDZ	02/03/14 09:30	EPA 200.7	

Environmental Testing, Inc.

Russell Britten, President

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/04/14 14:30
--	---	-----------------------------

Conventional Chemistry Parameters by Standard Methods - Quality Control
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ECB0001 - General Prep - Wet Chem (Aq)										
Blank (ECB0001-BLK1)				Prepared & Analyzed: 01/31/14						
Orthophosphate as P	<0.200	0.200	mg/L							
LCS (ECB0001-BS1)				Prepared & Analyzed: 01/31/14						
Orthophosphate as P	0.440	0.200	mg/L	0.400		110	80-120			
Matrix Spike (ECB0001-MS1)				Source: E4A0491-01		Prepared & Analyzed: 01/31/14				
Orthophosphate as P	0.830	0.200	mg/L	0.400	0.390	110	70-130			
Matrix Spike Dup (ECB0001-MSD1)				Source: E4A0491-01		Prepared & Analyzed: 01/31/14				
Orthophosphate as P	0.820	0.200	mg/L	0.400	0.390	108	70-130	1	20	

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/04/14 14:30
--	---	-----------------------------

Metals by EPA 200 Series Methods - Quality Control

Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ECB0013 - EPA 200.7										
Blank (ECB0013-BLK1)										
				Prepared & Analyzed: 02/03/14						
Lead	<0.0100	0.0100	mg/L							
Metals Digestion	Completed		N/A							
LCS (ECB0013-BS1)										
				Prepared & Analyzed: 02/03/14						
Lead	0.978	0.0100	mg/L	1.00		98	85-115			
Metals Digestion	Completed		N/A							
Duplicate (ECB0013-DUP1)										
				Source: E4A0454-01			Prepared & Analyzed: 02/03/14			
Lead	0.0482	0.0100	mg/L		0.0418			14	20	
Metals Digestion	Completed		N/A							
Matrix Spike (ECB0013-MS1)										
				Source: E4A0454-01			Prepared & Analyzed: 02/03/14			
Lead	0.911	0.0100	mg/L	1.00	0.0418	87	70-130			
Metals Digestion	Completed		N/A							
Matrix Spike Dup (ECB0013-MSD1)										
				Source: E4A0454-01			Prepared & Analyzed: 02/03/14			
Lead	0.895	0.0100	mg/L	1.00	0.0418	85	70-130	2	20	
Metals Digestion	Completed		N/A							

Environmental Testing, Inc.

Russell Britten, President

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/04/14 14:30
--	---	-----------------------------

Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	04/01/2014
NELAP	NELAP Accredited	10002	06/30/2014
ODEQ	Oklahoma Accredited	2013-063	08/31/2014
TCEQ	Texas Accredited	T104704498-13-3	03/31/2014

Environmental Testing, Inc.

Russell Britten, President

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/04/14 14:30
--	---	-----------------------------

Notes and Definitions

- COM Completed
- P-01 The sample was incorrectly preserved for for the analysis requested.
- T-01 The sample was received outside of the regulatory temperature for this analysis.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- x Non-Certified analyte

Environmental Testing, Inc.

Russell Britten, President

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ENVIRONMENTAL TESTING, INC.

4619 NORTH SANTA FE AVE.
OKLAHOMA CITY, OK 73118
(405) 488-2400
FAX: (405) 488-2404



CHAIN OF CUSTODY RECORD

PAGE: OF
SAMPLE SERIES # 4470491
SHADED AREAS FOR LABORATORY USE ONLY

COMPANY: Safety Tech Inc
ADDRESS: 1414 SW 89th Street
OKC OK 73159
PHONE #: 405-833-2065
EMAIL: Safety Tech @ Cox.net
P.O.#: N/A
CLIENT CONTACT: Todd Martin
PROJECT #: 012914 /MANAGER:
SITE LOCATION: GA

- SAMPLE TYPE
1. WATER
 2. SOIL
 3. SLUDGE
 4. OIL
 5. OTHER
- CONTAINER TYPE
- P-PLASTIC
G-GLASS
V-VOA
O-OTHER
T-TEFLON

PRESERVATIVES

ICE

ANALYSIS

LAB COMMENTS

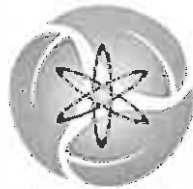
ETI SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER			SAMPLING		PRESERVATIVES	ANALYSIS	LAB COMMENTS
			SIZE	TYPE	#	DATE	TIME			
1	GA01	SOIL	250ml	P	1	1/25	3:15pm	ICE	Total Pd ICP Total Phosphorus ^{PPA} 365.3 (Phosphates) _{on the spot}	

RECEIVED ON ICE: Y N 94 °C
EQUIPMENT #: 60087
REQUESTED TURNAROUND TIME: REGULAR (5 DAYS)
RUSH REQUIRED: (ADDITIONAL FEES MAY APPLY)
 3 DAYS 2 DAYS 1 DAY

SAMPLER: Josh Martin
DATE: 1/30/14
TIME: 7:02
RECEIVED BY: JM

FIELD PH: TEMP:
TIME: COND:
CALIB: 4 7 10
COMMENTS:

RELINQUISHED BY: Josh Martin
RELINQUISHED BY:
RELINQUISHED BY:



ENVIRONMENTAL TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # 95A0491

- 1. Were samples received on ice? YES NO
- 2. Temperature of representative sample or temperature blank 9.4 °C
- 3. If the temperature is ≤ 0°C, was the representative sample or temp blank frozen? YES NO NA
- 4. Did all containers arrive in good condition (unbroken)? YES NO
- 5. Were VOA vials received? YES NO
 - a. Was there any observable headspace present in any VOA vial? YES NO NA
- 6. Were the correct containers used for the analysis requested? YES NO
- 7. Was there sufficient amount of sample to perform the requested tests in each container? YES NO
- 8. Were the samples received with sufficient time left to meet holding time requirements? YES NO
- 9. On preserved containers, did pH strips suggest preservation reached the correct pH level?
(DO NOT OPEN VOA VIALS TO CHECK pH) YES NO NA
 - Acid Preserved ≤2 Other _____ Base Preserved ≥12 Other _____
- 10. Did the containers indicate the correct preservatives were used for the requested analysis? YES NO NA
- 11. Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)? YES NO
- 12. If samples were not in compliance, was the client notified of the nonconformity? YES Date: _____
Initial: _____
 - a. If yes, does the client wish to proceed with analysis? YES NO
- 13. Was the client notified of the intent to subcontract work that will NOT be performed by ETI? YES Date: _____
Initial: _____

Preservative ID(s) 95A0004

I certify that all of the above checks were completed. (Initial) AB

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container. (Initial) AB

Notes: 250 mL preserved with HNO3 for Pb. AB

Report and Accompanying Data Reviewed by: [Signature] Date: 2/4/14

Laboratory Analytical Report



**ENVIRONMENTAL
TESTING, INC.**

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

06 February 2014

Mr. Todd Martin
Safety Tech, Inc.
1414-B S.W. 89th St.
Oklahoma City, OK 73159

WO: E4A0518
RE: GA

Enclosed are the results of analyses for samples received by the laboratory on 01/31/14 11:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Russell Britten
President



4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 1

E4A0518-01 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	7550	100	mg/Kg	100	ECB0082	JDZ	02/06/14 12:37	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Russell Britten, President



ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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GAS 2

E4A0518-02 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	5580	100	mg/Kg	100	ECB0082	JDZ	02/06/14 12:40	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

Russell Britten, President

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Oklahoma City, OK 73118
405.488.2400 Phone
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www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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GAS 3

E4A0518-03 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method
Lead	869	10.0	mg/Kg	10	ECB0082	JDZ	02/06/14 12:43	EPA 6010C
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050

Environmental Testing, Inc.

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Russell Britten, President



4619 N. Santa Fe
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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GAS 4

E4A0518-04 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method
Lead	1390	10.0	mg Kg	10	ECB0082	JDZ	02/06/14 12:46	EPA 6010C
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050

Environmental Testing, Inc.

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Russell Britten, President



4619 N. Santa Fe
 Oklahoma City, OK 73118
 405.488.2400 Phone
 405.488.2404 Fax
 www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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GAS 6

E4A0518-05 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	1310	10.0	mg/Kg	10	ECB0082	JDZ	02/06/14 12:50	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Russell Britten, President



4619 N. Santa Fe
 Oklahoma City, OK 73118
 405.488.2400 Phone
 405.488.2404 Fax
 www.etalab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
--	---	-----------------------------

GAS 7

E4A0518-06 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	30600	100	mg/Kg	100	ECB0082	JDZ	02/06/14 12:53	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Russell Britten, President



4619 N. Santa Fe
 Oklahoma City, OK 73118
 405.488.2400 Phone
 405.488.2404 Fax
 www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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GAS 8

E4A0518-07 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Lead	110000	1000	mg/Kg	1000	ECB0082	JDZ	02/06/14 13:16	EPA 6010C	
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050	

Environmental Testing, Inc.

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Russell Britten, President



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 Oklahoma City, OK 73118
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 www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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GAS 10
E4A0518-08 (Solid) - Sampled: 01/31/14 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Environmental Testing, Inc.

Metals by EPA 6000/7000 Series Methods

Lead	11100	100	mg Kg	100	ECB0082	JDZ	02/06/14 13:19	EPA 6010C
Metals Digestion	Completed		N/A		ECB0082	JDZ	02/06/14 08:30	EPA 3050

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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Metals by EPA 6000/7000 Series Methods - Quality Control
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ECB0082 - EPA 3050										
Blank (ECB0082-BLK1)										
				Prepared & Analyzed: 02/06/14						
Lead	<1.00	1.00	mg/Kg							
Metals Digestion	Completed		N/A							
LCS (ECB0082-BS1)										
				Prepared & Analyzed: 02/06/14						
Lead	103	1.00	mg/Kg	100		103	80-120			
Metals Digestion	Completed		N/A							
Duplicate (ECB0082-DUP1)										
				Source: E4A0489-01RE1			Prepared & Analyzed: 02/06/14			
Lead	4.21	1.00	mg/Kg		3.74			12	20	
Metals Digestion	Completed		N/A							
Matrix Spike (ECB0082-MS1)										
				Source: E4A0489-01RE1			Prepared & Analyzed: 02/06/14			
Lead	84.5	1.00	mg/Kg	100	3.74	81	75-125			
Metals Digestion	Completed		N/A							
Matrix Spike Dup (ECB0082-MSD1)										
				Source: E4A0489-01RE1			Prepared & Analyzed: 02/06/14			
Lead	81.1	1.00	mg/Kg	100	3.74	77	75-125	4	20	
Metals Digestion	Completed		N/A							

Environmental Testing, Inc.

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Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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Non-Certified Analyses included in this Report

Analyte

Certifications

Code	Description	Number	Expires
KDHE	Kansas Accredited	E-10401	04/01/2014
NELAP	NELAP Accredited	10002	06/30/2014
ODEQ	Oklahoma Accredited	2013-063	08/31/2014
TCEQ	Texas Accredited	T104704498-13-3	03/31/2014

Environmental Testing, Inc.

Russell Britten, President

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www.etilab.com

Safety Tech, Inc. 1414-B S.W. 89th St. Oklahoma City OK, 73159	Project: GA Project Number: 012914 Project Manager: Mr. Todd Martin	Reported: 02/06/14 15:27
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Notes and Definitions

- COM Completed
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- x Non-Certified analyte

Environmental Testing, Inc.

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Russell Britten, President

ENVIRONMENTAL TESTING, INC.

4619 NORTH SANTA FE AVE.
OKLAHOMA CITY, OK 73118
(405) 488-2400
FAX: (405) 488-2404



CHAIN OF CUSTODY RECORD

SAMPLE SERIES #: 1240218
SHADED AREAS FOR LABORATORY USE ONLY

COMPANY: Safety Tech Inc.
ADDRESS: 1414 SW 89th St
OKC, OK 73159
PHONE #: 405 833 2065
EMAIL: Safetytech@coxinet.net
P.O. #:
CLIENT CONTACT: Todd Martin
PROJECT #: GA. /MANAGER:
SITE LOCATION: GA

- SAMPLE TYPE
1. WATER
 2. SOIL
 3. SLUDGE
 4. OIL
 5. OTHER
- CONTAINER TYPE
- P-PLASTIC
 - G-GLASS
 - V-VOA
 - O-OTHER
 - T-TEFLON

ETI SAMPLE #	CLIENT SAMPLE IDENTIFICATION	SAMPLE TYPE	CONTAINER			SAMPLING		PRESERVATIVES	ANALYSIS	LAB COMMENTS
			SIZE	TYPE	#	DATE	TIME			
1	GAS 1	2	4oz	GI	1	1/31/14	10:30	NONE		
2	GAS 2									
3	GAS 3									
4	GAS 4									
5	GAS 6									
6	GAS 7									
7	GAS 8									
8	GSA 10									

RECEIVED ON ICE: Y N @ 16°C
EQUIPMENT #: 2084
REQUESTED TURNAROUND TIME: REGULAR (5 DAYS)
RUSH REQUIRED: (ADDITIONAL FEES MAY APPLY)
 3 DAYS 2 DAYS 1 DAY

SAMPLER:
FIELD PH:
TEMP:
COND:
CALIB: 4 7 10

RELINQUISHED BY: Todd Martin / Joe Lopez
RECEIVED BY: Amrady
DATE: 1/31/14 / 1/31/14
TIME: 11:55am / 11:55
RECEIVED BY: Amrady
DATE: 1/31/14 / 1/31/14
TIME: 11:55am / 11:55
LOG IN REVIEW: 1/23/14



ENVIRONMENTAL TESTING, INC.

F039.008

Sample/Cooler Receipt Form

Sample Series # E4A0518

- 1. Were samples received on ice? YES NO
 - 2. Temperature of representative sample or temperature blank 11.6 °C
 - 3. If the temperature is ≤ 0°C, was the representative sample or temp blank frozen? YES NO NA
 - 4. Did all containers arrive in good condition (unbroken)? YES NO
 - 5. Were VOA vials received? YES NO
 - a. Was there any observable headspace present in any VOA vial? YES NO NA
 - 6. Were the correct containers used for the analysis requested? YES NO
 - 7. Was there sufficient amount of sample to perform the requested tests in each container? YES NO
 - 8. Were the samples received with sufficient time left to meet holding time requirements? YES NO
 - 9. On preserved containers, did pH strips suggest preservation reached the correct pH level? YES NO NA
(DO NOT OPEN VOA VIALS TO CHECK pH)
- Acid Preserved ≤2 Other _____ Base Preserved ≥12 Other _____
- 10. Did the containers indicate the correct preservatives were used for the requested analysis? YES NO NA
 - 11. Were chain-of-custody forms properly filled out (conforms to ETI Sample Acceptance Policy)? YES NO
 - 12. If samples were not in compliance, was the client notified of the nonconformity? YES Date: _____ Initial: _____
 - a. If yes, does the client wish to proceed with analysis? YES NO
 - 13. Was the client notified of the intent to subcontract work that will NOT be performed by ETI? YES Date: _____ Initial: _____

Preservative ID(s) _____, _____, _____

I certify that all of the above checks were completed. (Initial) EW

I certify the project was entered into the LIMS, and a label with the unique LIMS number was attached to each container. (Initial) EW

Notes:

Report and Accompanying Data Reviewed by: [Signature] Date: 2/6/14

APPENDIX D

WASTE WATER DISCHARGE LETTER

Todd Martin

From: Richard Romine [rromine@cityofguthrie.com]
Sent: Friday, February 07, 2014 1:27 PM
To: Todd Martin
Subject: RE: Waste Water Discharge of Guthrie Armory

Todd,

After reading the lab results from the work done at our armory I see no reason why it can't be discharged in the nearest manhole.

Thank you for sending me your results.

Richard Romine
City Of Guthrie W.W.T.P.

From: Todd Martin [<mailto:toddmartin@coxinet.net>]
Sent: Friday, February 07, 2014 1:26 PM
To: Richard Romine
Subject: Waste Water Discharge of Guthrie Armory

Mr. Romine

Thank you for taking time for speak with me regarding discharging approximately 150 gallons of water. I have attached the lab results for the water we are asking to discharge.



Todd L. Martin, IH
President
1414-B S.W. 89th Street
Oklahoma City, OK 73159
tel: (405) 759-7328
fax: (405) 759-7327
toddmartin@coxinet.net
www.safetytechinc.com

APPENDIX E

DISPOSAL PLAN FOR HAZARDOUS WASTE

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
LAND PROTECTION DIVISION

(405) 702-5100 /Fax (405) 702-5101

DISPOSAL PLAN APPLICATION FOR A CONTINUOUS ONE TIME

See instructions on reverse side before completing this form. DO NOT REDUCE THIS FORM.

GENERATOR'S EPA ID NO: OKP410183601

New Plan Amendment to Disposal Plan Amendment to existing waste stream No.: _____

Business/Plant Name Oklahoma Department of Environmental Quality

Plant Address/Location 720 East Logan Avenue City Guthrie State OK Zip 73044

Mailing Address 707 North Robinson City Oklahoma City State OK Zip 73101

Plant Contact Todd Martin Title _____ Telephone 405-759-7328

DETAILED WASTE DESCRIPTION

Waste-Name Solids containing Lead

EPA-Waste Code(s) D008

Amount of Waste Produced

No. of Lbs. Frequency Physical Liquid Sludge Solid Layered
 Day Week Chemical Ignitable (Flashpoint _____ °F) Corrosive (pH _____) Reactive
 Month Year

Laboratory analysis attached. Material Safety Data Sheet(s) are acceptable for off-specification products only.

PROCESS GENERATING WASTE (SEE INSTRUCTIONS, USE ADDITIONAL SHEETS IF NECESSARY)


Collection of sand and debris containing lead residue from a gun firing range.

TSD INFORMATION (USE CONTINUATION PAGE IF NECESSARY)

Site receiving waste SET Environmental Telephone (713) 645-8710
Mailing address 5738 Cheswood City Houston State TX Zip 77087
Site location 5743 Cheswood Houston, TX 77087 EPA ID No TXD055135388

CERTIFICATION

The above information is accurate to the best of my knowledge. I will only use those transporters registered with the state of Oklahoma to pick up hazardous wastes within the State of Oklahoma or to transport hazardous wastes to an appropriate receiving facility in the State of Oklahoma.

Signature  Date 2-12-14
Person in charge of plant or plant contact

Typed or printed name of signer Todd Martin Email: toddmartin@coxinet.net

Oklahoma Generators Only. List county where waste is Generated: Logan

To: Coulter, Al; Davidson, Dustin W.
Subject: EPA Doc.

Al,

Per conversations with Dustin Davidson, I have attached our disposal plan and information.
Let me know if you need anything else.

Thank You.



Todd L. Martin, IH
President
1414-B S.W. 89th Street
Oklahoma City, OK 73159
tel: (405) 759-7328
fax: (405) 759-7327
toddmartin@coxinet.net
www.safetytechinc.com

Todd Martin

From: Coulter, Al [Al.Coulter@deq.ok.gov]
Sent: Wednesday, February 12, 2014 2:09 PM
To: 'Todd Martin'
Cc: Davidson, Dustin W.
Subject: RE: EPA Doc.

Plan is approved.

**Disposal Plan For
Guthrie Armory**

AS OF 2/12/2014

Below is a listing of the disposal plan for your firm as required by the Oklahoma Hazardous Waste Act, Section 1-2-7-105. This is not a permit and does not constitute authorization or endorsement of any particular disposal practice, method, or site.

Plant Address: **Attn:**
720 Logan Avenue E
Guthrie, OK 73044

Comments:

EPA ID : OKP410183601

Disposal Plan Number : 100400

Approval Date : 2/12/2014

Comments :

Stream No : 1402001 **SOLIDS W LEAD**
Onetime : YES
EPA Codes : D008
Disposal TSD : TXD055135388
Comments :

Total number of waste streams : 1

Have a great day.

Al Coulter
Hazardous Waste Data Management Unit
DEQ Land Protection Division
405-702-5189
Email address: al.coulter@deq.ok.gov

From: Todd Martin [<mailto:toddmartin@coxinet.net>]
Sent: Wednesday, February 12, 2014 1:58 PM



SET PROFILE

SET Number: **104979**

Name: **Solids Containing Lead**

Date Approved:
Contact Id:

Sales Rep: **Jon Dysinger**
Cust Svc Rep: **Jesica Attebery**

Broker: **SET Environmental - OK**
1100 North Main
Noble, OK 73068-

DOT Ship Name: **Hazardous waste, solid, n.o.s.**
Tech Names: **Lead**

UN/NA: **NA3077**
Hazard Class: **9** Packing Group: **III**
Rq: RQ Value: **10**

Qty containers: **1**

Frequency: **Once**

Process Desc: **Spent/used Collection of sand and debris**
containing lead residue from a gun
firing range.

TSDf: **SET Environmental, Inc.**
Address: **5738 Cheswood, Houston, TX**
US EPA ID: **TXD055135388**

Generators' Sites			
Gen ID	Name	St.Waste Cd	Site Address
34855	Oklahoma Department of Environmental	OUTS319H	720 East Logan Avenue, Guthrie, OK 73044-


Component Description	CAS #	% Average	% Low	% High
1 Sand		90.0	85	95
2 Debris (PPE, RAgs, etc.)		9.0	5	10
3 Lead		1.0	0	1


EPA Code	Description	EPA Code	Description
D008	Lead		

Characteristic	Typical Value	LO Val	HI Val	UOM
COLOR	varies			
LAYER	Homogeneou			
ODOR	mild			
PHYST	Solid			
SOLID		100.0	100.0	100.0 %
FLASH	-			
OXIDIZ	-			


- 1. Is the hazardous waste determination based on the generator's detailed knowledge of the waste? Yes
- 2. Is the hazardous waste determination based on the analysis of the waste? If yes, please attach analysis. No
- 3. Does this waste meet the definition of debris in 40 CFR 268.2(g)? No
- 4. If this is a characteristically hazardous waste (i.e., D-Coded), does it contain any underlying hazardous constituents as defined in 40 CFR 268.2(i)? If yes, identify each constituent and their percentages in Section V. Waste Composition. No
- 5. Does this waste contain any of the EPCRA 313 chemicals identified in 40 CFR 372.65? If yes, list these chemicals, CAS # and their percentages in Section V. Waste Composition. Yes
- 6. Does this waste contain any of the EHS identified in section 302 of EPCRA? If yes, list these chemicals, CAS # and their percentages in Section V. Waste Composition. No
- 7. Is this waste regulated under the National Emissions Standard for Benzene Waste Operations (40 CFR Part 61 Subpart FF)? No
- 8. Does this waste meet the definition of a wastewater (40 CFR 268.2(f))? No
- 9. Is this waste being shipped in DOT specification packages authorized for the material they contain? Yes
- 10. Is the total organic halogen (TOH) content of this used oil \geq 1,000 ppm? If the answer is "Yes", this material will be considered a hazardous waste unless sufficient documentation is provided to rebut the presumption that the used oil is a hazardous waste (see 40 CFR §279.44). N/A

I hereby certify that the information identified above and attached to this profile is complete and accurate to the best of my knowledge and ability to determine that no omissions of composition or properties exist, and that all known or suspected hazards have been disclosed. I also understand it is my responsibility to properly identify and classify my waste in accordance with USEPA, US DOT and State regulations.



GENERATOR'S NAME


SIGNATURE



TITLE
2-12-14

DATE

INSTRUCTIONS

The Disposal Plan is designed for RCRA hazardous waste generators and RCRA regulated materials. Small Quantity Generators and Conditionally Exempt Small Quantity Generators are exempt from the disposal plan requirements (see OAC 252:205-5-3). One disposal plan application should be completed for each waste generated at each plant which is the origination point of hazardous wastes. Approved Disposal Plans will be listed on the Land Protection Division's Web Page: <http://www.deq.state.ok.us/LPDnew/DisposalPlan2/DisposalRequest.html>

IDENTIFICATION OF WASTE GENERATOR

Generator's EPA ID number for the plant location is required. The disposal plan application will not be processed without this number. Please indicate if the application is for a new plan or an amendment.

Enter business/plant name, address, telephone number, etc., as indicated. If the plant address is identical to the business mailing address, enter "Same". Enter the name and title of the person in charge of the plant or plant contact. The person in charge or plant contact should verify all information submitted and sign and date the disposal plan. **A consultant's or preparer's signature will not be accepted in lieu of generator's signature.**

DETAILED WASTE DESCRIPTION

Enter waste name **not the DOT description**. This name will be used on the generator's listing to identify the waste stream. Enter all EPA waste codes applicable to this particular waste stream. Indicate physical and chemical characteristics of this waste. Attach laboratory analysis for this waste stream. For necessary tests see 40 CFR 261, Appendices I through X. Material Safety Data Sheets (MSDS) may be used for off-specification products only.

PROCESS GENERATING WASTE

Provide detailed description of process generating waste. Description must be sufficient to properly characterize the waste and must account for each EPA waste code claimed.

TREATMENT, STORAGE, AND/OR DISPOSAL (TSD) FACILITY INFORMATION

Enter name and telephone number of site receiving waste. Give complete mailing address of TSD facility. Enter site location. Enter facility's EPA ID number. These will be checked against an EPA database to determine the facility's ability to accept this waste. If more than one TSD facility needs to be listed, use the continuation page. <http://www.deq.state.ok.us/lpdnew/forms/Haz%20Waste/DPPLANCONTINUATION.pdf>

AMENDMENTS TO PREVIOUSLY APPROVED WASTE STREAMS

Reference EPA identification and waste stream numbers in the top portion of the form. Indicate required amendments in the appropriate section(s).

FEES TO BE REMITTED WITH DISPOSAL PLAN APPLICATION (PURCHASE ORDERS ACCEPTABLE - COPY OF PURCHASE ORDER MUST BE SUBMITTED WITH APPLICATION).

Fees for disposal plans are:

Oklahoma Generators

Processing fee (includes 2 waste streams)	\$100.00
Monitoring and Inspection fee	100.00
Each waste stream over two	50.00

Out-of-State Generators

Processing fee (includes 2 waste streams)	\$100.00
Monitoring and Inspection fee	-0-
Each waste stream over two	50.00

The generator is charged an annual generator fee on the same basis as the above listed fees. Make checks and purchase orders payable to the Oklahoma Department of Environmental Quality.

ONE-TIME DISPOSAL FEES

If the generator has an existing disposal plan, the fee for a one-time disposal is \$50.00 per waste stream. If there is no existing plan, the fee for Oklahoma and out-of-state generators is \$100.00 for the first two waste streams and \$50.00 for each additional waste stream.

AMENDMENTS

When adding waste streams to an existing plan, submit a \$50.00 fee for each waste stream. There is no charge for adding or deleting information on waste streams.

Attach generator fees, if required, and mail to

Disposal Plans
Financial and Human Resources Management
Oklahoma Department of Environmental Quality
P. O. Box 2036
Oklahoma City, Oklahoma 73101

The physical location of the office is 707 North Robinson in

APPENDIX F

DISPOSAL OF HAZARDOUS WASTE MANIFEST

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number OKP410183601	2. Page 1 of 1	3. Emergency Response Phone 800-544-1313	4. Manifest Tracking Number 010573818 JJK
---	---	--------------------------	--	---

5. Generator's Name and Mailing Address Oklahoma Department of Environmental Quality 707 North Robinson Oklahoma City, OK 73101	Generator's Site Address (if different than mailing address) 720 East Logan Avenue Guthrie, OK 73044
Generator's Phone: 405-759-7328	

6. Transporter 1 Company Name SET Environmental, Inc.	U.S. EPA ID Number ILD981957236
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address SET Environmental 5743 Cheswood Houston, TX 77087	U.S. EPA ID Number TXD055135388
Facility's Phone: 713-645-8710	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. RC; NA3077; Hazardous waste, solid, n.o.s (Lead); 9; PGIII (RC-10lbs)	12	DM	4800	P	D008		
	2.						OUTS	319H
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 104979

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: **JOSE R NUNEZ**
 Signature: *[Signature]*
 Month: **10** Day: **26** Year: **14**

16. International Shipments Import to U.S. Export from U.S.
 Port of entry/exit: _____ Date leaving U.S.: _____

17. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 Printed/Typed Name: **TODD BURZETTE**
 Signature: *[Signature]* Month: **10** Day: **26** Year: **14**
 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

18. Discrepancy
 18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection
 Manifest Reference Number: _____


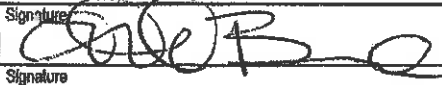

18b. Alternate Facility (or Generator)
 Manifest Reference Number: _____ U.S. EPA ID Number: _____
 Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator)
 Signature: _____ Month: _____ Day: _____ Year: _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
 1. _____ 2. _____ 3. _____ 4. _____

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18:
 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

GENERATOR
TRANSPORTER INT'L
DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number OKP410183601	2. Page 1 of 1	3. Emergency Response Phone 800-544-1313	4. Manifest Tracking Number 010573818 JJK		
5. Generator's Name and Mailing Address Oklahoma Department of Environmental Quality 707 North Robinson Oklahoma City, OK 73101				Generator's Site Address (if different than mailing address) 720 East Logan Avenue Guthrie, OK 73044			
Generator's Phone: 405-759-7328							
6. Transporter 1 Company Name SET Environmental, Inc.				U.S. EPA ID Number ILD981957236			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address SET Environmental 5743 Cheswood Houston, TX 77087				U.S. EPA ID Number TXD055135386			
Facility's Phone: 713-645-8710							
9a. H/M	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RC; NA3077; Hazardous waste, solid, n.o.s (Lead); 9; PGIII (RC-10lbs)	12	DM	4800	P	0008	OUTS 319H
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1. 104979							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name JOSE R NUÑEZ				Signature 		Month Day Year 10 26 14	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name TODD BURZETTE				Signature 		Month Day Year 10 26 14	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____ U.S. EPA ID Number: _____							
18b. Alternate Facility (or Generator)							
Facility's Phone: _____						U.S. EPA ID Number: _____	
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H41		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Andrea Coleman				Signature 		Month Day Year 10 28 14	

SET Environmental, Inc.

5738 Cheswood Street - Houston, TX 77087
713-645-8710 // 800-598-7328 // Fax: 713-649-1027

NOTIFICATION FOR WASTE RESTRICTED FROM LAND DISPOSAL

I. GENERAL INFORMATION

GENERATOR Oklahoma Department of Environmental Quality
MAILING ADDRESS 707 North Robinson
CITY, STATE ZIP Oklahoma City, OK 73101

U.S. EPA ID No: OKP410183601

State Manifest Document Number: 010573818JJK

Manifest Document Number:

II. LAND DISPOSAL RESTRICTION TABLE

Approval Number	RCRA Waste Code	Subcategory Codes (From Table I)	F-Solvent (Table II) or UHC Codes (Table III)	Treatability Group (WW) or (NWW)
104979	D008			NWW

III. CERTIFICATION

I am supplying this notification to Treatment One in accordance with the provisions of 40 CFR 268.7. I have determined that the material described above is restricted from land disposal and must be treated to conformance with the treatment standards specified in 40 CFR 268.40 and 268.48.

I hereby certify that all information supplied above is complete and accurate to the best of my knowledge and ability to determine that no omissions or errors exist.

Jose R. Nunez

SIGNATURE
Jose R. NUNEZ
NAME (Printed or Typed)

Supervisor

TITLE
7-26-14
DATE

CONFIRMATION SAMPLING

RECEIVED

JUL 16 2014

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

GUTHRIE ARMORY

720 E LOGAN

GUTHRIE, OK 73044

MARCH 13, 2014

LEAD-CONFIRMATION SAMPLING

CERTIFIED INDUSTRIAL HYGIENE SERVICES PROVIDED FOR:

Oklahoma Department of Environmental Quality

Land Protection Division

Care Of: Dustin Davidson, Environmental Programs Specialist

P.O. Box 1677

Oklahoma City, OK 73102

Phone: 405.702.5115

Email: dustin.davidson@deq.ok.gov

CERTIFIED INDUSTRIAL HYGIENE SERVICES PROVIDED BY:

Marshall Environmental Management, Incorporated

Attention: Jamie Marshall, Senior Industrial Hygiene Associate

1601 SW 89th Street, Suite A-100

Oklahoma City, OK 73159

Phone: 405.616.0401

Email: marshenv@swbell.net

219346 CD ___ #c 1 c/o LY

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GUTHRIE ARMORY
LEAD-CONFIRMATION SAMPLING

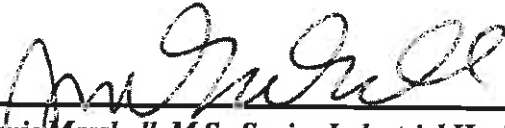
CERTIFICATION

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 Lead-Confirmation Sampling at the Guthrie Armory (720 East Logan Guthrie, Oklahoma). The confirmation sampling was performed by Lead-Based Paint (LBP) Inspector/Risk Assessors licensed by the ODEQ and under the direction of Dr. Charles L. Marshall Certified Industrial Hygienist (CIH) and President of MEM. The analytical data resulting from these sampling events is believed to accurately, reflect the concentrations of lead in surface dust at the time sampling was accomplished.

OWNER INFORMATION

State of Oklahoma

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR



Jamie Marshall, M.S., Senior Industrial Hygiene Associate
ODEQ Certification Lead-Based Paint Inspector/Risk Assessor

March 13, 2014

Report Date
OKRASR13418

CERTIFIED LEAD-BASED PAINT INSPECTOR/RISK ASSESSOR



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

March 13, 2014

Report Date
OKRASR13701

CERTIFIED LEAD-BASED PAINT FIRM

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

ACCREDITED LABORATORY

Quantem Laboratories | AIHA ID: 101352

EXECUTIVE SUMMARY

As part of the ODEQ LPD Site Cleanup Assistance Program and Armory Cleanup Program and for the purpose of verifying that adequate lead abatement (i.e. removal) measures occurred, MEM and ODEQ representatives performed the Lead-Confirmation Sampling at the Guthrie Armory from October 14, 2013 through January 13, 2014. According to the Environmental Protection Agency (EPA)¹ and with regard to common floor surfaces, concentrations of lead in dust following remediation activities and prior to the application of a sealant, which are less than or equal to 40-micrograms per square foot ($\leq 40\text{-}\mu\text{g}/\text{ft}^2$) are acceptable. With regard to windowsills, the EPA states that concentrations of lead in dust post-abatement/pre-sealant that are $\leq 250\text{-}\mu\text{g}/\text{ft}^2$ are acceptable. And, according to the Departments of the Army and the Air Force National Guard Bureau², with regard to any horizontal surface within an indoor-firing-range (IFR), concentrations of lead in dust post abatement/pre sealant that are $\leq 200\text{-}\mu\text{g}/\text{ft}^2$ are acceptable ($40\text{-}\mu\text{g}/\text{ft}^2$ in the case of child exposure). Following the application of an acrylic sealant to the walls, floors and ceiling of the IFR and IFR side room, the ODEQ adheres to the clearance level of $40\text{-}\mu\text{g}/\text{ft}^2$ in the case of child exposure.

SAMPLING METHODOLOGY

The sample collection process was carried out in accordance with the regulations proposed by the EPA in 40 Code of Federal Regulations (CFR) part 745. Samples of settled dust were collected by selecting a surface area and then by placing a template of a known dimension firmly against the surface to be sampled. Next, the area within the template was wiped in a particular pattern utilizing a specific wipe. The wipe was then placed in an approved container; the container was labeled and the samples/sampling locations were recorded on the chain of custody. Lastly, samples were submitted, to an accredited laboratory, for analysis. The sampling locations and corresponding laboratory analyses are illustrated on the area diagram included in the appendix to this report.

ANALYTICAL SUMMARIES

On October 14, 2013 and following lead-abatement activities (performed by SafetyTech), 48-samples were collected (by an MEM representative) from various floor, wall and ceiling surfaces within the IFR and from various floor surfaces within rooms 8, 9, 10, 11 and 12 (outside of the IFR). Of the 30-surface samples that were collected within the IFR, 11-sample analyses exceeded the aforementioned Departments of the Army and the Air Force National Guard clearance level of $\leq 200\text{-}\mu\text{g}/\text{ft}^2$; and of the 18-samples that were collected from floor surfaces outside the IFR, 8-sample analyses exceeded the aforementioned EPA clearance level of $40\text{-}\mu\text{g}/\text{ft}^2$. The following tables summarize the laboratory data resulting from each sampling event, and the **bolded data** represents lead concentrations that exceeded the appropriate clearance level.

TABLE 1: 10-14-13 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1A		28.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2A		35.0- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3A		102-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4A		54.0-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5A		18.9- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6A		17.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

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

²Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges - http://www.ngbpdcc.ngb.army.mil/pubs/420/ngpam420_15.pdf

Guthrie Armory – Lead-Confirmation Sampling

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
7A		9.94- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8A		18.8- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9A		99.0- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10A		781- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11A		798- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12A		220- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
13A		119- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
14A		24.8- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
15A		43.9- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
16A		9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
17A		9.96- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
18A		12.4- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
19A	IFR	191- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
20A	IFR	196- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
21A	IFR	422- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
22A	IFR	428- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
23A	IFR	900- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
24A	IFR	4,040- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
25A	IFR	235- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
26A	IFR	68.8- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
27A	IFR	496- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
28A	IFR	105- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
29A	IFR	37.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
30A	IFR	90.3- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
31A	IFR	347- $\mu\text{g}/\text{ft}^2$	300- $\mu\text{g}/\text{ft}^2$
32A	IFR	45.9- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
33A	IFR	121- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
34A	IFR	8,450- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
35A	IFR	125- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
36A	IFR	82.6- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
37A	IFR	1,250- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
38A	IFR	189- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
39A	IFR	99.6- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
40A	IFR	140- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
41A	IFR	50.9- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
42A	IFR	88.4- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
43A	IFR	27.5- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
44A	IFR	27.6- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
45A	IFR	11.3- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
46A	IFR	19.2- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
47A	IFR	25.5- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
48A	IFR	19.6- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$

Due to lead fragments imbedded in the IFR walls, supplemental lead-confirmation sampling was performed on November 5, 2013 (by an MEM representative) following supplemental abatement activities that included the application of a two-part concrete epoxy on the back and side walls within the IFR. In addition to this, various floor surfaces within rooms 8, 9, 10, 11 and 12 (outside the IFR) were sampled. Of the 11-surfaces that were sampled within the IFR, 2-sample analyses exceeded the Departments of the Army and the Air Force National Guard clearance level of $\leq 200\text{-}\mu\text{g}/\text{ft}^2$. Of the 11-surfaces that were sampled outside the IFR, 4-sample analyses exceeded the EPA clearance level of $40\text{-}\mu\text{g}/\text{ft}^2$.

TABLE II: 11-05-13 LEAD-CONFIRMATION SAMPLING

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1		55.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2		37.2- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3		39.0- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5		10.4- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
7		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9		76.1- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10		136- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11		75.8- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12	IFR	131- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
13	IFR	92.1- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
14	IFR	76.7- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
15	IFR	279- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
16	IFR	321- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
17	IFR	150- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
18	IFR	135- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
19	IFR	132- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
20	IFR	137- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
21	IFR	135- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
22	IFR	167- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$

On November 15, 2013, additional lead-confirmation sampling was performed (by an MEM representative) where lead concentrations previously exceeded the applicable clearance level (inside and outside the IFR). Of the 3-samples that were collected within the IFR, none of the sample analyses exceeded the clearance level of 200- $\mu\text{g}/\text{ft}^2$ set forth by the Departments of the Army and the Air Force National Guard. Furthermore, none of the sample analyses resulting from the surfaces that were sampled outside the IFR exceeded the clearance level of 40- $\mu\text{g}/\text{ft}^2$ established by the EPA.

TABLE III: 11-15-13 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1		9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3		10.7- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6	IFR	9.60- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
7	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$
8	IFR	87.4- $\mu\text{g}/\text{ft}^2$	200- $\mu\text{g}/\text{ft}^2$

On November 22, 2013, additional samples were collected (by an MEM representative) from various floor, wall and ceiling surfaces within the IFR following supplemental abatement activities that included the application of an acrylic sealant that was sprayed on all walls, floors and ceilings of the IFR and IFR side room. Of the 14-samples that were collected, none of the sample analyses exceeded the Army and Air Force National Guard clearance level of 40- $\mu\text{g}/\text{ft}^2$ in the case of child exposure.

TABLE IV: 11-22-13 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3	IFR	12.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
7	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8	IFR	19.7- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9	IFR	73.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12	IFR	13.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
13	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
14	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

On December 16, 2013, floor surfaces in rooms 6, 13, 14, 15, 16, 17, 19 and 20 (outside the IFR) were sampled by an MEM representative. Of the 24-samples that were collected, 7-sample analyses exceeded the EPA clearance level of 40- $\mu\text{g}/\text{ft}^2$.

TABLE V: 12-16-13 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1		13.8- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2		43.2-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3		9.98- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4		32.9- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5		28.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6		9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
7		26.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8		9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9		13.7- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10		52.2- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11		19.1- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12		49.2-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
13		3,000-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
14		2,020-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
15		177-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
16		19.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
17		53.1- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
18		51.1-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
19		16.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
20		12.4- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
21		13.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
22		32.9- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
23		43.2-$\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
24		24.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

On December 27, 2013, following supplemental abatement activities floor surfaces in rooms 1, 2, 3, 4, 5, 15, 16, 17, 18 and 20 (outside the IFR) were sampled by an MEM representative. Of the 33-samples that were collected, 16-sample analyses exceeded the EPA clearance level of 40- $\mu\text{g}/\text{ft}^2$. The lead concentrations resulting from the sample collected in room 16 were more elevated than previously detected. Personnel with the ODEQ performed an investigation that discovered LBP on the floor in room 16. The LBP was abated and the area was sealed with a concrete epoxy.

TABLE VI: 12-27-13 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1		18.4- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2		16.1- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3		15.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4		193- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5		10,500- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6		5,960- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
7		96.8- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8		125- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9		234- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10		81.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11		17.7- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12		70.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
13		11.2- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
14		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
15		10.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
16		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
17		11.8- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
18		12.4- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
19		43.5- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
20		18.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
21		11.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
22		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
23		10.3- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
24		12.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
25		18.2- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
26		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
27		44.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
28		164- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
29		167- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
30		83.7- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
31		87.4- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
32		131- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
33		66.6- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

On January 7, 2014, following supplemental abatement activities that included removing paint and applying a two-part concrete epoxy to the floor in room 16 where lead concentrations previously exceeded the applicable clearance level, floor surfaces in rooms 1, 2, 3, 5, 12 and 16 were sampled by an MEM representative. Of the 13-samples that were collected, one of the sample analyses, from the sample collected in room 12, exceeded the EPA clearance level of 40- $\mu\text{g}/\text{ft}^2$.

TABLE VII: 01-07-14 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1		155- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
3		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
4		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
5		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
6		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
7		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
8		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
9		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
10		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
11		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
12		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
13		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

On January 15, 2014, following supplemental remediation activities, surface samples were collected (by an ODEQ representative) within the IFR and in room 15 (outside the IFR). The resulting sample analyses did not exceed the EPA clearance level of 40- $\mu\text{g}/\text{ft}^2$.

TABLE VIII: 01-15-14 ANALYTICAL SUMMARY

SAMPLE ID	SAMPLE DESCRIPTION	ANALYTICAL RESULT	CLEARANCE LEVEL
1	IFR	<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$
2		<9.00- $\mu\text{g}/\text{ft}^2$	40- $\mu\text{g}/\text{ft}^2$

APPENDIX

CHAIN OF CUSTODY FORMS & ANALYTICAL DATA

AREA DIAGRAMS

CERTIFICATES/LICENSURE

LEAD CHAIN OF CUSTODY

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



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Page 1 of 1

Lab No. **228058**

Accept Reject

Reports Results (add in box)

Quantem Website

Other CRM

custin.davis@ok.gov
brion.stanin@ok.gov

Project Name: **Audrine Armony**

Project Location: **Sawthorne, OK**

Project ID: **0274-LBP-101413**

Company: **Maxwell Environmental**

Contact: **Jamie Marshall**

Account #:

Sampled by: **Rachel Woods**

Phone: **414-0401**

Call Phone:

Email: **rwood@maxwellenv.com**

Requested by: **SPURDOR**

Requested by Title: **Phy/In**

Requested by Phone: **405-561-6753**

Requested by Email: **rspurdor@maxwellenv.com**

Requested by Address: **187413**

Requested by City: **MA**

Requested by State: **MA**

Requested by Zip: **027413**

Requested by Date & Time: **10/14/13**

Received by: **PAC**

Received by Title: **Phy/In**

Received by Phone: **405-561-6753**

Received by Email: **pac@maxwellenv.com**

Received by Address: **187413**

Received by City: **MA**

Received by State: **MA**

Received by Zip: **027413**

Received by Date & Time: **10-14-13**

No.	Sample ID (to identify requestor's hand)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Sample Matrix (Add in box only)	Analysis						Sample Matrix Codes	
						PPM	Wt %	mg/l	µg/ft ²	µg/m ²	mg/cm ²		
1	1A	Room 8 - SW			C							A	Soil
2	2A	Room 8 - Center		1612								B	Paint Chips
3	3A	Room 8 - NE										C	Surface / Dust Wipes
4	4A	Room 9 - West										D	Bulk Miscellaneous
5	5A	Room 9 - Center										E	Air Cassette
6	6A	Room 9 - East											
7	7A	Room 10 - SW											
8	8A	Room 10 - Center											
9	9A	Room 10 - N.E.											
10	10A	Room 11 - S.E.											
11	11A	Room 11 - Center											
12	12A	Room 11 - N.W.											

TURNAROUND TIME

Same Day

24-Hour

3-Day

5-Day

STANDARD SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4120 N. Santa Fe Ave., Oklahoma City, OK 73105-6517 • Max's Packages "Hold for Saturday Pickup"

LEAD CHAIN OF CUSTODY

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Page 2 of

For Lab Use Only
 Lab No. 228058
 Accept Reject

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Project Information: Company: Marshall Environmental Project Name: Authrine Army Project Location: Authrine, OK.

REQUESTED SERVICES: (Please check 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: (check ONE box only)					Sample Matrix Codes
							PPM	Wt %	mg/l	µg/l	µg/m ²	
13	13A	Room 12 West Floor - S.W.				Pb						A
14	14A	Room 12 West Floor - Center		142	C							B
15	15A	Room 12 West Floor - N.E.										C
16	16A	Room 12 East Floor - S.W.										D
17	17A	Room 12 East Floor - Center										E
18	18A	Room 12 East Floor - N.E.										
19	19A	IFR North Floor - N.E.										
20	20A	IFR North Floor - Center										
21	21A	IFR North Floor - S.W.										
22	22A	IFR South Floor - N.E.										
23	23A	IFR South Floor - Center										
24	24A	IFR South Floor - S.W.										
25	25A	IFR North Wall - Top										
26	26A	IFR North Wall Middle										
27	27A	IFR North Wall Bottom										
28	28A	IFR NE Wall - Bottom										
29	29A	IFR NE Wall - Middle										
30	30A	IFR NE Wall - Top										

SAFETY: ANY SAMPLE DELIVERY - CALL 303.733.5352 OR 303.733.5353. WE ARE NOT RESPONSIBLE FOR THE LOSS OF SAMPLES. WE WILL NOT BE RESPONSIBLE FOR THE LOSS OF SAMPLES. WE WILL NOT BE RESPONSIBLE FOR THE LOSS OF SAMPLES.

LEAD CHAIN OF CUSTODY

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Lab No. 228055

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Project Information: Project Name: Marshall Environmental Project Location: Authrie, OK

Requested Services: (Please the Appropriate Boxes)

Volume (Liters)

Volume Area (Approx. Width)

Analysis

Units (List ONE box only)

Sample Matrix Codes

No.	Sample ID (10 Characters Max)	Sample Description	Volume (Liters)	Volume Area (Approx. Width)	Analysis	Units (List ONE box only)	Sample Matrix Codes
13	01A	FR-SE Wall - Bottom					
14	02A	FR-SE Wall - Middle					
15	03A	FR-SE Wall - Top					
16	04A	FR-South Wall - Bottom					
17	05A	FR-South Wall - Middle					
18	06A	FR-South Wall - Top					
19	07A	FR-SW Wall - Bottom					
20	08A	FR-SW Wall - Middle					
21	09A	FR-SW Wall - Top					
22	40A	FR-NW Wall - Bottom					
23	41A	FR-NW Wall - Middle					
24	42A	FR-NW Wall - Top					
25	43A	FR-North Ceiling - West					
26	44A	FR-North Ceiling - East					
27	45A	FR-Centre Ceiling - West					
28	46A	FR-Centre Ceiling - East					
29	47A	FR-South Ceiling - West					
30	48A	FR-South Ceiling - East					

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

Environmental Chemistry Analysis Report

Quantem Set ID: 228058
Date Received: 10/14/13
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 10/15/2013

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

Acct. No.: A331

Project: Guthrie Armory
Location: Guthrie, OK
Project No.: 0274-LBP-101413

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1A	Wipe	Lead	28.5	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
002	2A	Wipe	Lead	35.0	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
003	3A	Wipe	Lead	102	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
004	4A	Wipe	Lead	54.0	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
005	5A	Wipe	Lead	18.9	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
006	6A	Wipe	Lead	17.6	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
007	7A	Wipe	Lead	9.94	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
008	8A	Wipe	Lead	18.8	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
009	9A	Wipe	Lead	99.0	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
010	10A	Wipe	Lead	781	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
011	11A	Wipe	Lead	798	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
012	12A	Wipe	Lead	220	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
013	13A	Wipe	Lead	119	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
014	14A	Wipe	Lead	24.8	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
015	15A	Wipe	Lead	43.9	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
016	16A	Wipe	Lead	<9.00	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
017	17A	Wipe	Lead	<9.00	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. Quantem is not responsible for user-supplied data used in calculations.

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



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Environmental Chemistry Analysis Report

QuantEM Set ID: 228058 **Client:** Marshall Environmental Management, Inc.
Date Received: 10/14/13 **Received By:** Barbara Holdcr
Date Sampled: **Time Sampled:** **Acct. No.:** A331
Analyst: CC **Project:** Guthrie Armory
Date of Report: 10/15/2013 **Location:** Guthrie, OK
Project No.: 0274-LBP-101413

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18A	Wipe	Lead	12.4	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
019	19A	Wipe	Lead	191	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
020	20A	Wipe	Lead	196	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
021	21A	Wipe	Lead	422	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
022	22A	Wipe	Lead	428	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
023	23A	Wipe	Lead	900	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
024	24A	Wipe	Lead	4,040	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
025	25A	Wipe	Lead	235	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
026	26A	Wipe	Lead	68.8	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
027	27A	Wipe	Lead	496	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
028	28A	Wipe	Lead	105	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
029	29A	Wipe	Lead	27.7	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
030	30A	Wipe	Lead	90.3	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
031	31A	Wipe	Lead	347	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
032	32A	Wipe	Lead	45.9	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
033	33A	Wipe	Lead	221	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
034	34A	Wipe	Lead	8,450	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuantEM is not responsible for user-supplied data used in calculations.

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: 228058
Date Received: 10/14/13
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 10/15/2013

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

Acct. No.: A331

Project: Guthrie Armory

Location: Guthrie, OK

Project No.: 0274-LBP-101413

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
035	35A	Wipe	Lead	125	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
036	36A	Wipe	Lead	82.6	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
037	37A	Wipe	Lead	1,250	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
038	38A	Wipe	Lead	189	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
039	39A	Wipe	Lead	99.6	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
040	40A	Wipe	Lead	140	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
041	41A	Wipe	Lead	50.9	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
042	42A	Wipe	Lead	88.4	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
043	43A	Wipe	Lead	27.5	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
044	44A	Wipe	Lead	27.6	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
045	45A	Wipe	Lead	11.5	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
046	46A	Wipe	Lead	19.2	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
047	47A	Wipe	Lead	25.3	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100
048	48A	Wipe	Lead	19.6	9	ug/sq. Ft.	10/15/13 16:00	W NIOSH 9100

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuantEM is not responsible for user-supplied data used in calculations.

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: 228058	Client: Marshall Environmental Management, Inc.
Date Received: 10/14/13	1601 SW 89th Street, Ste. A-100
Received By: Barbara Holder	Oklahoma City, OK 73159
Date Sampled:	
Time Sampled:	Acct. No.: A331
Analyst: CC	Project: Guthrie Armory
Date of Report: 10/15/2013	Location: Guthrie, OK
	Project No.: 0274-LBP-101413

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
------------	-----------	--------	-----------	---------	------------------	-------	--------------------	--------

Authorized Signature: _____

Benton Miller, Analyst

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

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

Supplemental Report QAQC Results

QA ID: 11451
Test: Lead

Date: 10/15/2013
Matrix: Wipe

Lab Number: 228058
Approved By: Benton Miller
Date Approved: 10/15/2013

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

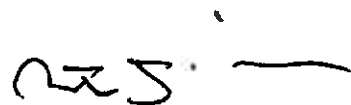
Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	5	5.5
ICV	0.9	1	1.1
RLVS	0.144	0.196	0.216

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W4	0.000	5.030	5.148	102.4	5.385	107.1	4.5

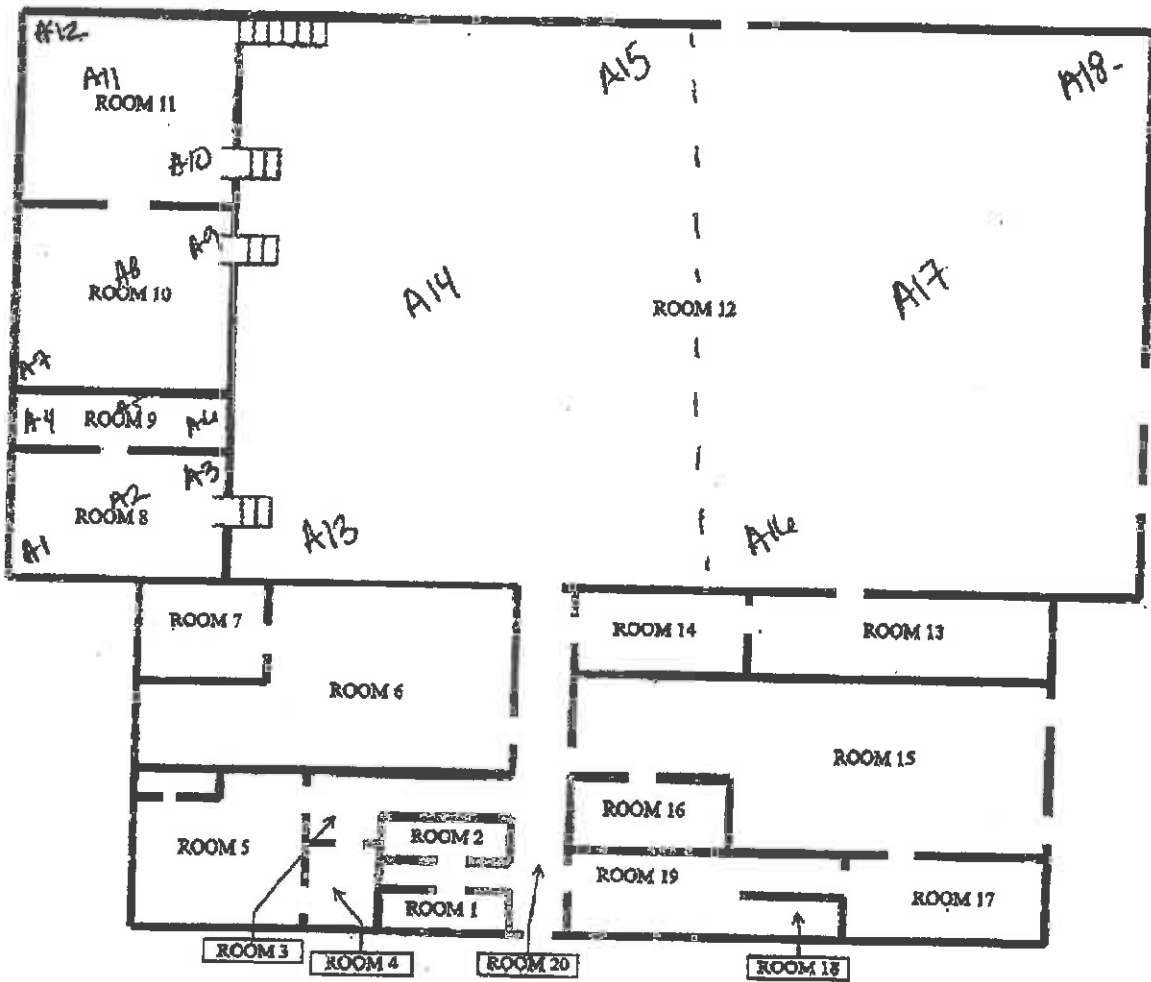
Authorized Signature: _____



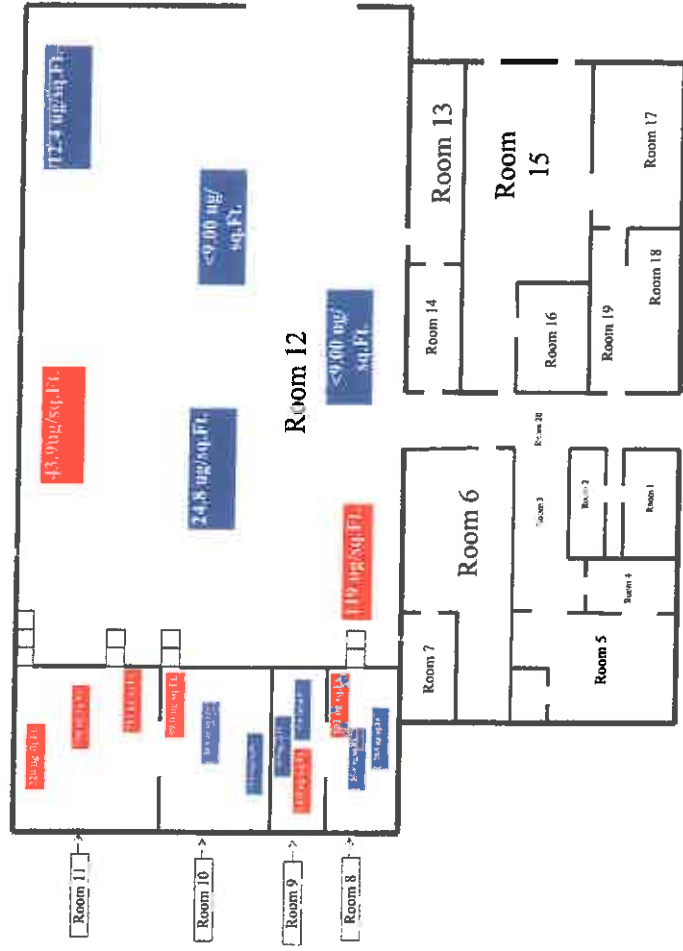
Benton Miller, Analyst

228058

GUTHRIE ARMORY

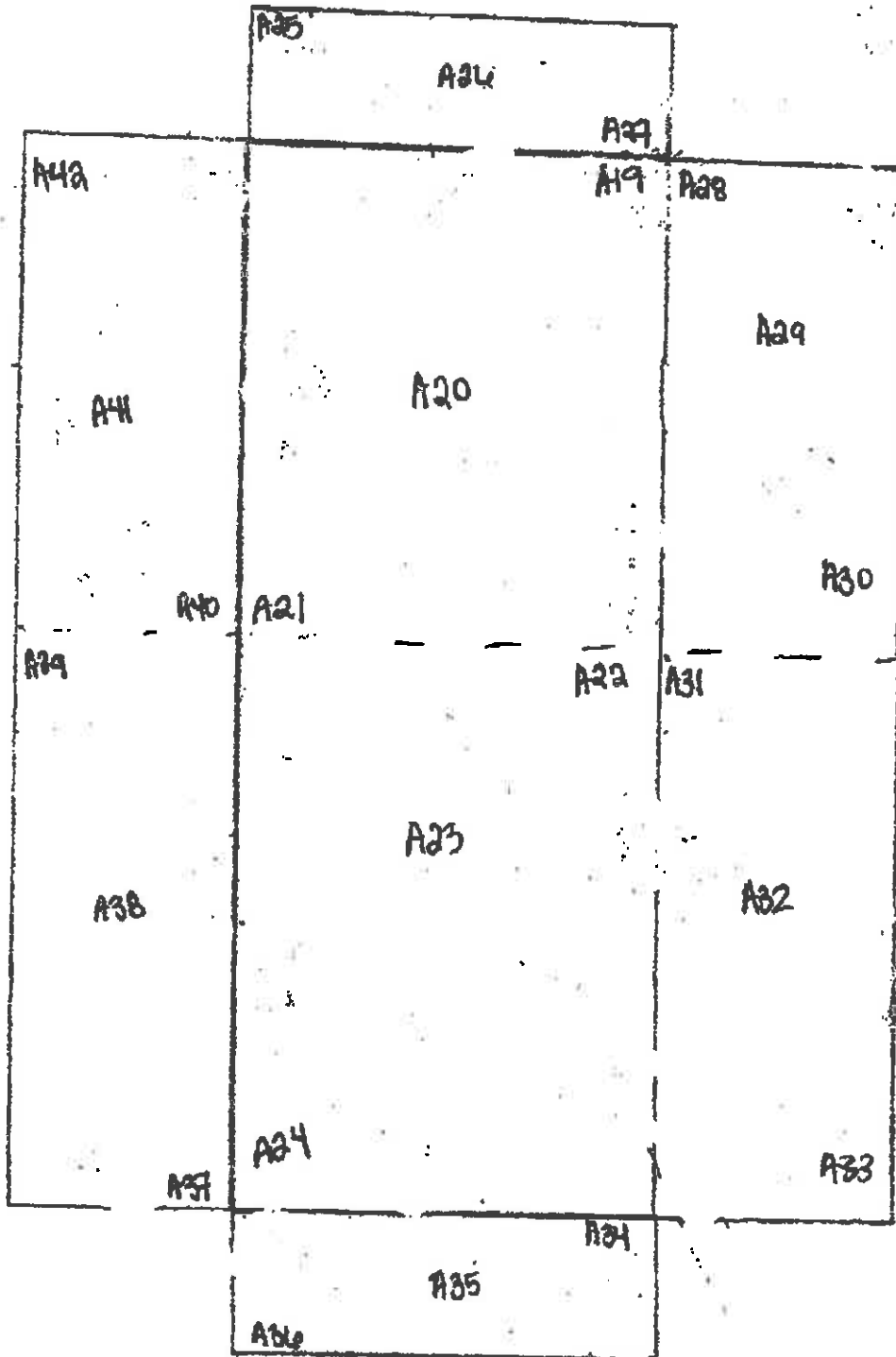


Guthrie Armory 10/14/13

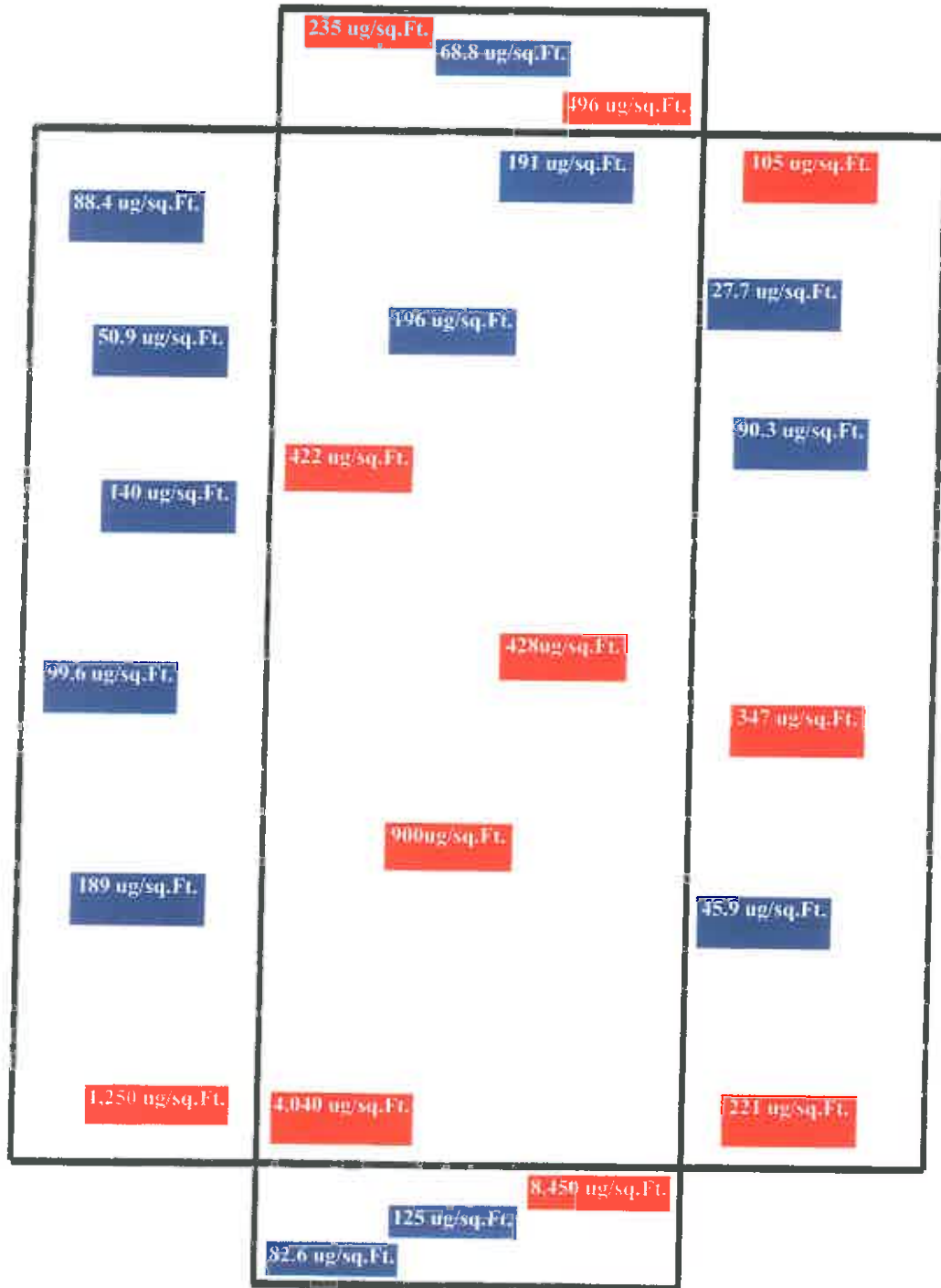


228058

NT
Firing Range Floor Plan

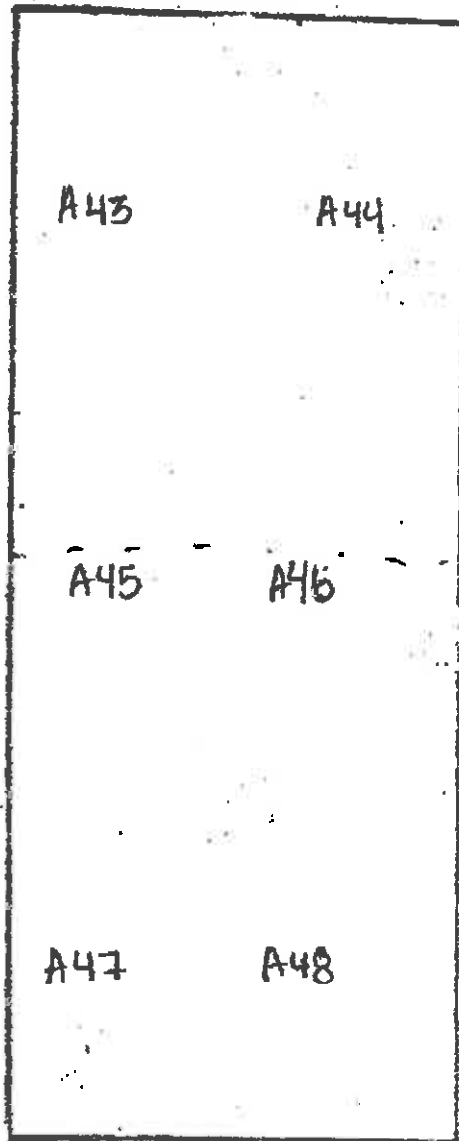


Guthrie Armory Firing Range Floor Plan 10-14-13



228058

NT
Firing Range Ceiling



Guthrie Armory Firing Range Ceiling 10-14-13





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Page 1 of 24

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For Lab Use Only

Lab No. 228332 Accept Reject

Report Results: one box multiple boxes

Quantem Website

Other

Company: Marshall Environmental Project Name: Guthrie Armory

Contact: Jamie Marshall Project Location:

Account #: Project ID:

Sampled By: Jamie Marshall Date: 11/13/13

RELINQUISHED BY: Jamie Marshall Date: 11/13/13

RECEIVED BY: J. Scheller DATE & TIME: 11/13 1:40

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	Wt %	mg/l	µg/ft ²	µg/m ³	
1		West Drill Floor	N/A	144 in ²	C	X						A
2		↓										B
3		Rm 8										C
4		↓										D
5		Rm 9										E
6		Rm 10 East										
7		↓										
8		Room 11										
9		Room 11										
10		Room 11										
11		Room 11										
12		IFR North Floor										

TURNAROUND TIME	
Same Day	
24-Hour	X
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"



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For Lab Use Only

Lab No. 228832

Accept Reject

Report Results: one box

Quantem Website

Other

Company: _____ Project Information

Contact: _____ Project Name: _____

Account #: _____ Project Location: _____

Sampled By: _____ Name: _____ Date: _____ Project ID: _____

RELINQUISHED BY _____ DATE & TIME _____ VIA _____ RECEIVED BY S. H. H. H. DATE & TIME 11/15/13 1:40

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					Sample Matrix Codes
						PPM	Wt %	mg / l	µg / ft ²	µg / m ³	
1	13	IFR North Floor	N/A	14ft ²	C				X		A
2	14	↓									B
3	15	IFR South Floor									C
4	16	↓									D
5	17	IFR North Wall									E
6	18	↓									
7	19	IFR SE Wall-North Half									
8	20	↓									
9	21										
10	22										
11											
12											

TURNAROUND TIME

Same Day

24 - Hour

3 - Day

5 - Day



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Environmental Chemistry Analysis Report

Quantem Set ID: 228832
Date Received: 11/05/13
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: Guthrie Armory
Location: N/A
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	55.3	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
002	2	Wipe	Lead	37.2	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
003	3	Wipe	Lead	39.0	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
005	5	Wipe	Lead	10.4	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
007	7	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
009	9	Wipe	Lead	76.1	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
010	10	Wipe	Lead	136	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
011	11	Wipe	Lead	75.8	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
012	12	Wipe	Lead	131	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
013	13	Wipe	Lead	92.1	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
014	14	Wipe	Lead	76.7	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
015	15	Wipe	Lead	279	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
016	16	Wipe	Lead	321	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
017	17	Wipe	Lead	150	9	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



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Environmental Chemistry Analysis Report

QuantEM Set ID: 228832
Date Received: 11/05/13
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: Guthrie Armory
Location: N/A
Project No.: N/A

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	135	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
019	19	Wipe	Lead	132	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
020	20	Wipe	Lead	137	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
021	21	Wipe	Lead	135	9	ug/sq. Ft.	11/06/13 10:45	W NIOSH 9100
022	22	Wipe	Lead	167	9	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 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: 228832
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
FCV	4.5	5.3	5.5
ICV	0.9	1.03	1.1
RLVS	0.144	0.181	0.216

Duplicate Data:

Recovery Data:

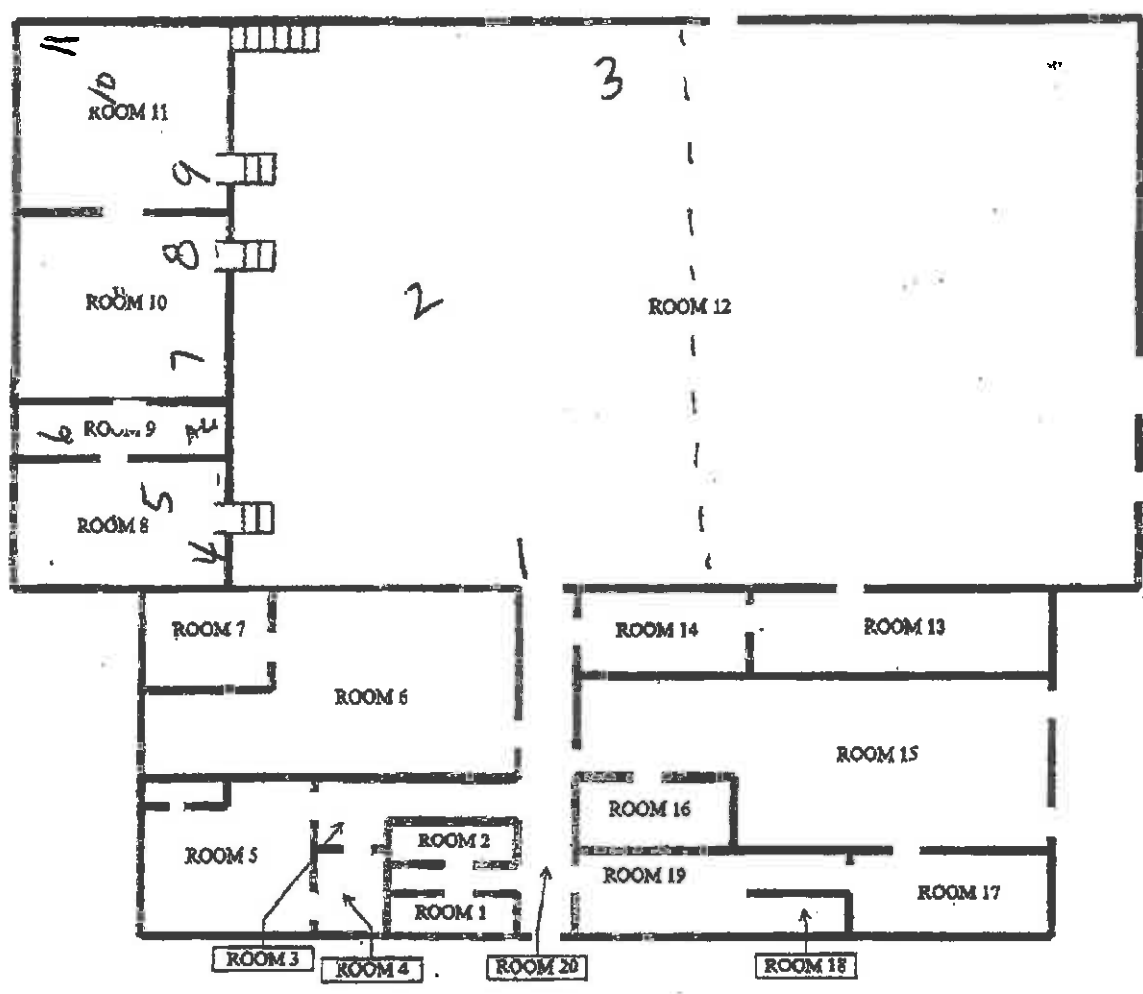
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.020	5.271	105.0	5.677	113.1	7.4

Authorized Signature: _____

Benton Miller
Benton Miller, Analyst

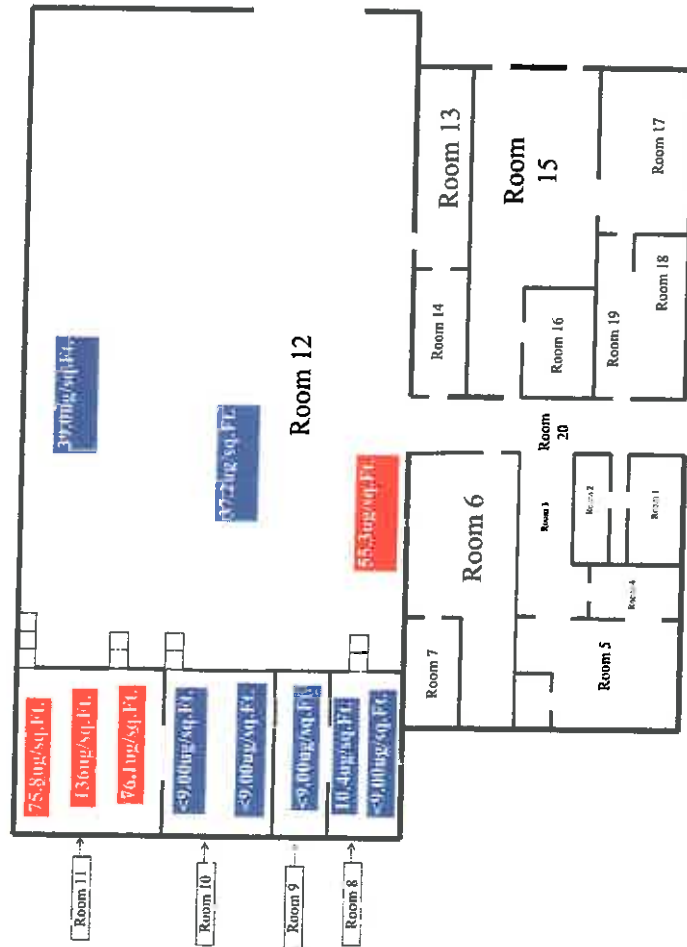
GUTHRIE ARMORY

~~228058~~
~~30F4~~
G# 228832



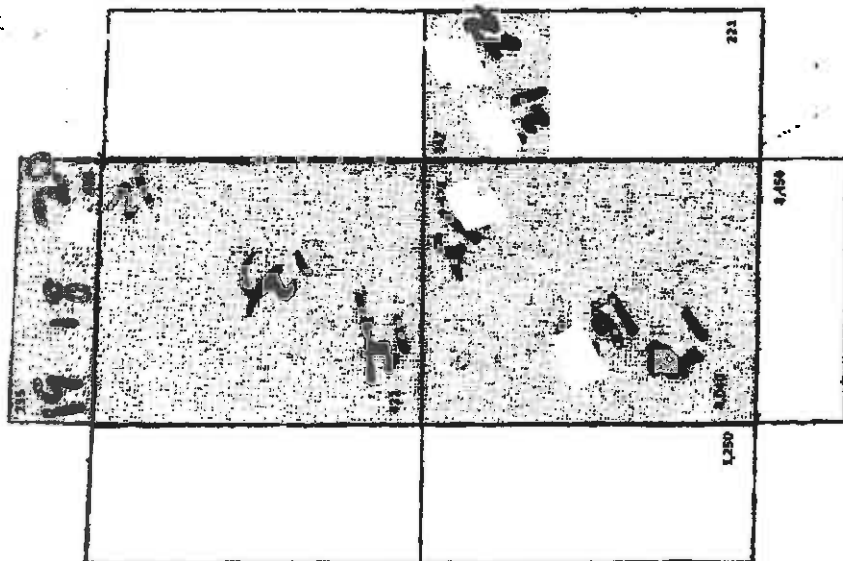
Guthrie Armory

11-05-13

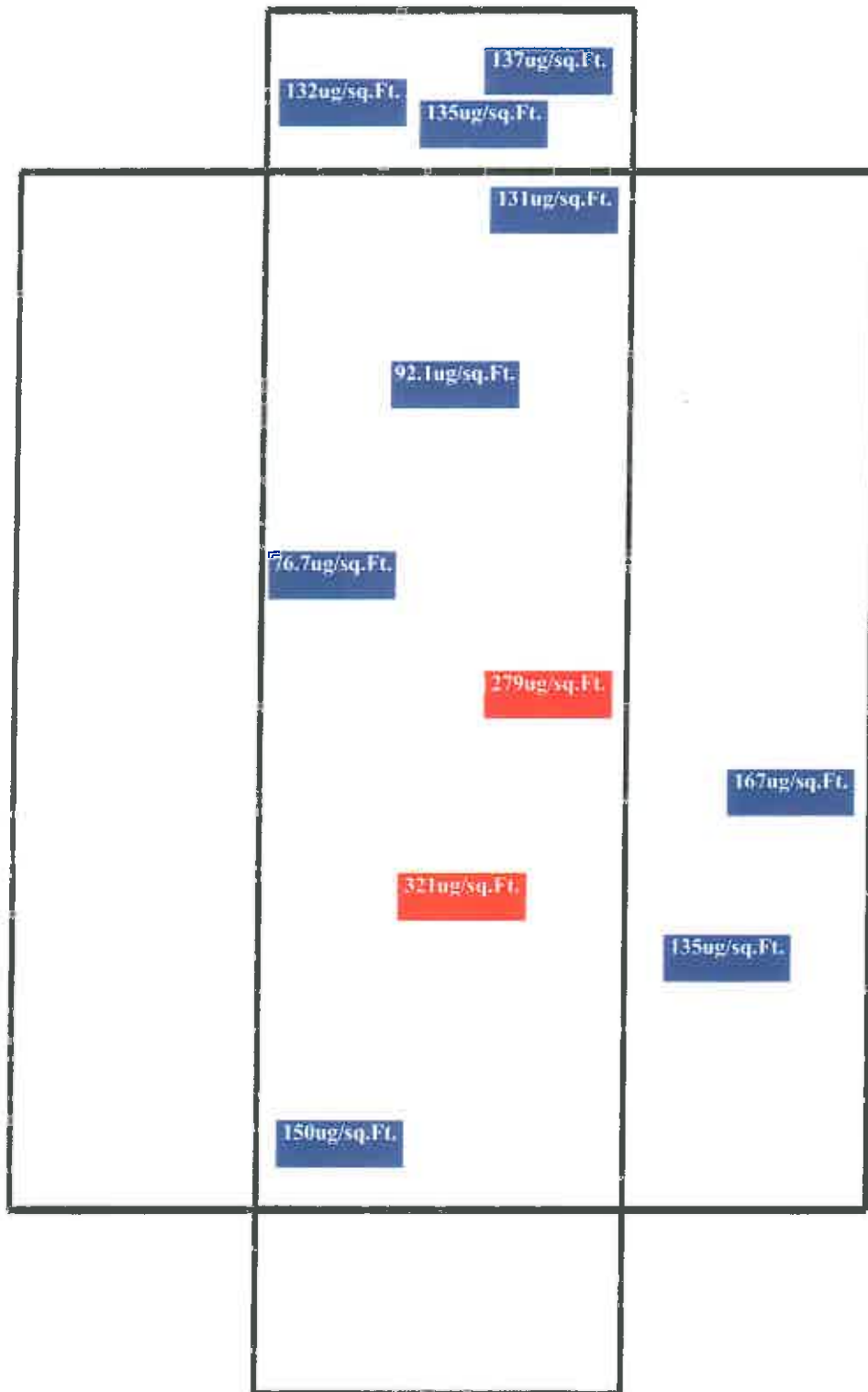


Q# 228332
4 of 4

NT
Firing Range Floor Plan



Guthrie Armory Firing Range Floor Plan 11-05-13





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Lab No. 221188 Accept Reject

Report Results: one box Quantem Website

Other Dustin Davidson CA DEP

Company: MEM

Contact: Jamie Marsh

Account #: _____

Sampled By: [Signature] Name: _____ Date: _____

Project Name: Guthrie Armory

Project Location: _____

Project ID: _____

RELINQUISHED BY: [Signature] DATE & TIME: _____ VIA _____ RECEIVED BY: [Signature] DATE & TIME: 11/15/13 12:26

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	µg/ft ²	µg/m ³	mg/cm ²	
1		Southwest Drill Floor	N/A	144 in ²	C	Pb						A
2		↓			X							B
3		Room 11										C
4		↓										D
5		South 1FR Floor										E
6		↓										
7												
8												
9												
10												
11												
12												

TURNAROUND TIME:

Same Day

24 - Hour

3 - Day

5 - Day



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

Environmental Chemistry Analysis Report

Quantem Set ID: 229188
Date Received: 11/15/13
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 11/18/2013

Client: Marshall Environmental Management, Inc.
1601 SW 89th Street, Ste. A-100
Oklahoma City, OK 73159
Acct. No.: A331
Project: Guthrie Armory
Location: N/A
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.	11/18/13 15:45	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/18/13 15:45	W NIOSH 9100
003	3	Wipe	Lead	10.7	9	ug/sq. Ft.	11/18/13 15:45	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/18/13 15:45	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/18/13 15:45	W NIOSH 9100
006	6	Wipe	Lead	9.60	9	ug/sq. Ft.	11/18/13 15:45	W NIOSH 9100
007	7	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/18/13 15:45	W NIOSH 9100
008	8	Wipe	Lead	87.4	9	ug/sq. Ft.	11/18/13 15:45	W NIOSH 9100

Authorized Signature: _____

Benton Miller, Analyst

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. Quantem is not responsible for user-supplied data used in calculations.

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

Supplemental Report QAQC Results

QA ID: 11540
Test: Lead

Date: 11/18/2013
Matrix: Wipe

Lab Number: 229188
Approved By: Benton Miller
Date Approved: 11/18/2013

Notes:

Blank Data:

Type of Blank	Blank Value
PCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.9	5.5
FCV	4.5	4.7	5.5
ICV	0.9	0.94	1.1
RLVS	0.144	0.186	0.216

Duplicate Data:

Recovery Data:

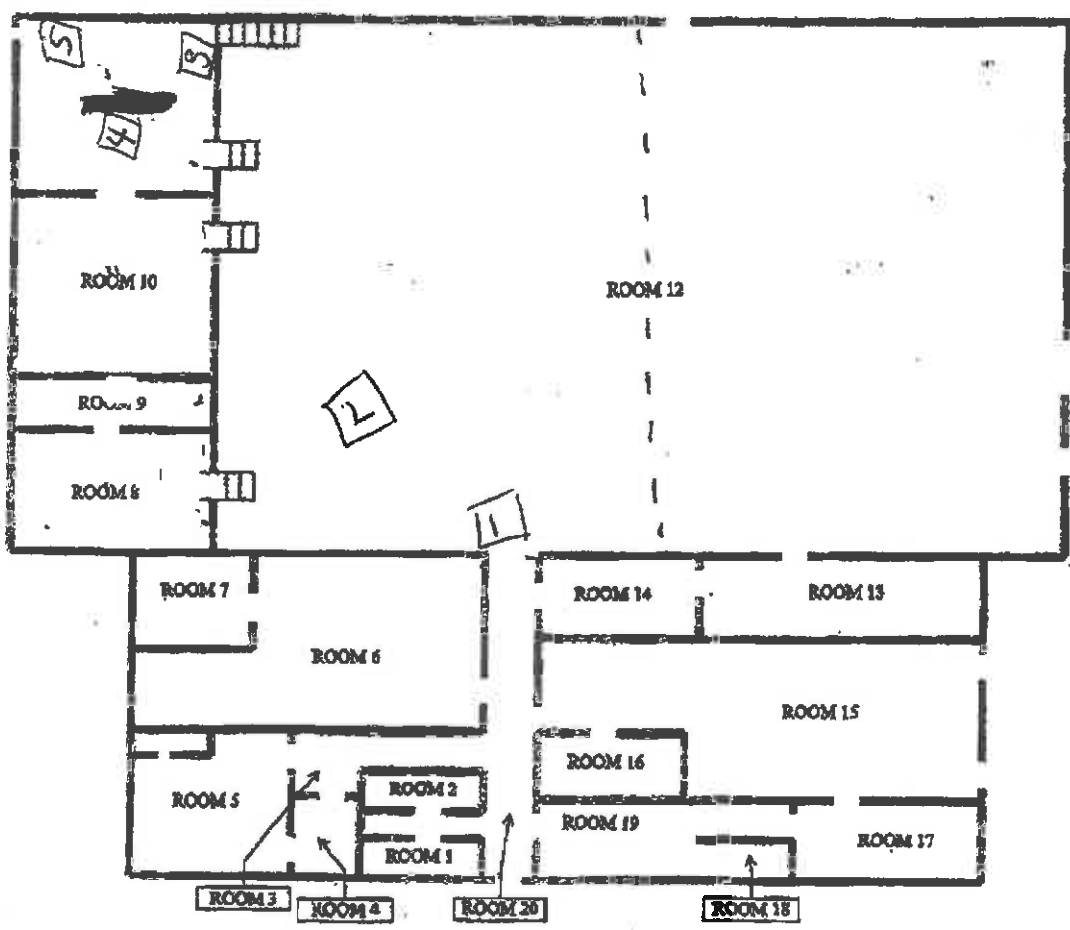
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000	5.020	4.944	98.5	4.946	98.5	0.0

Authorized Signature: _____

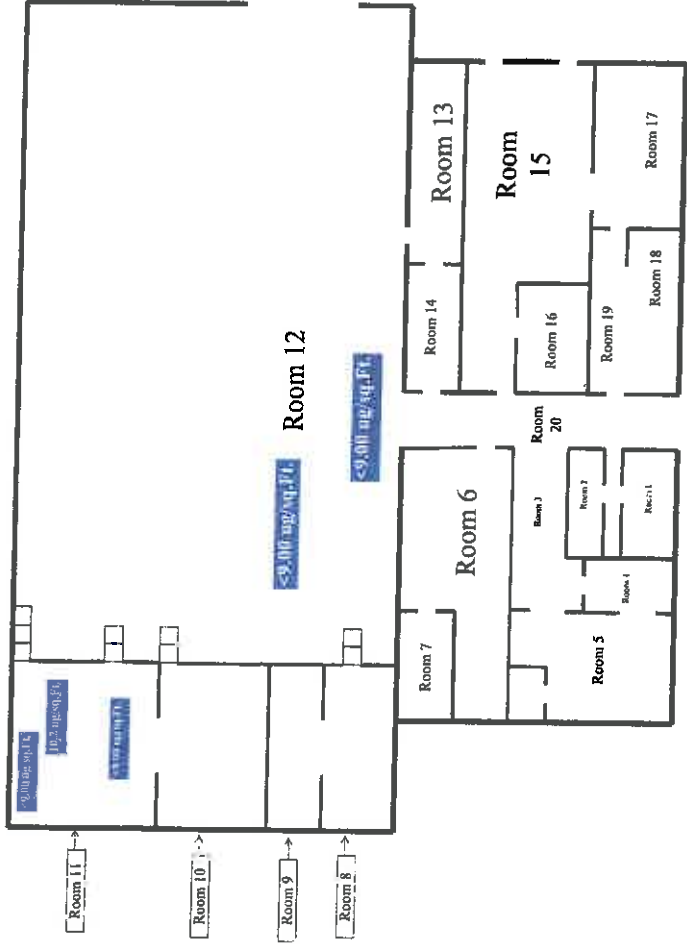
Benton Miller
Benton Miller, Analyst

GUTHRIE ARMORY

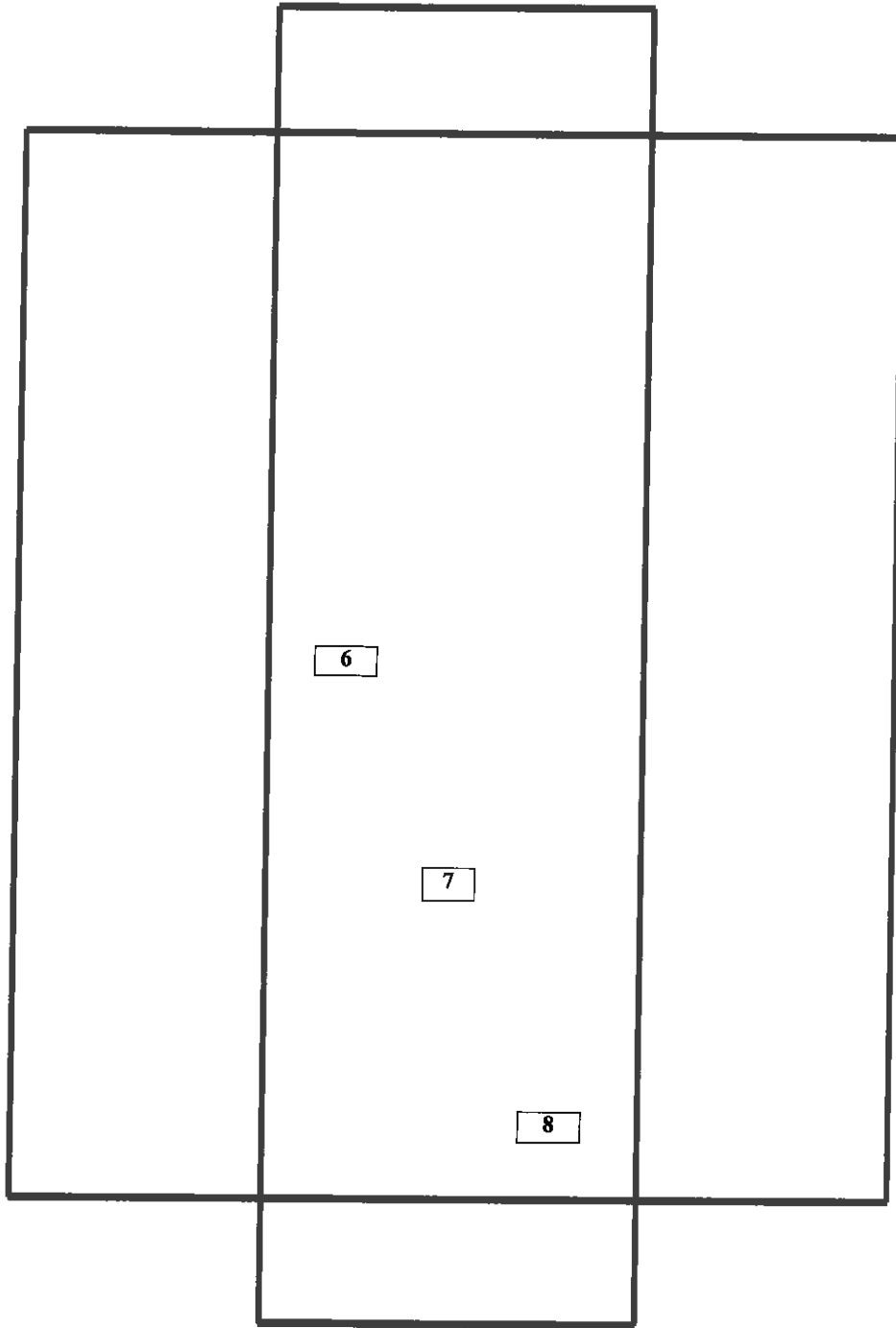
~~228058~~
30F4
G# 228832



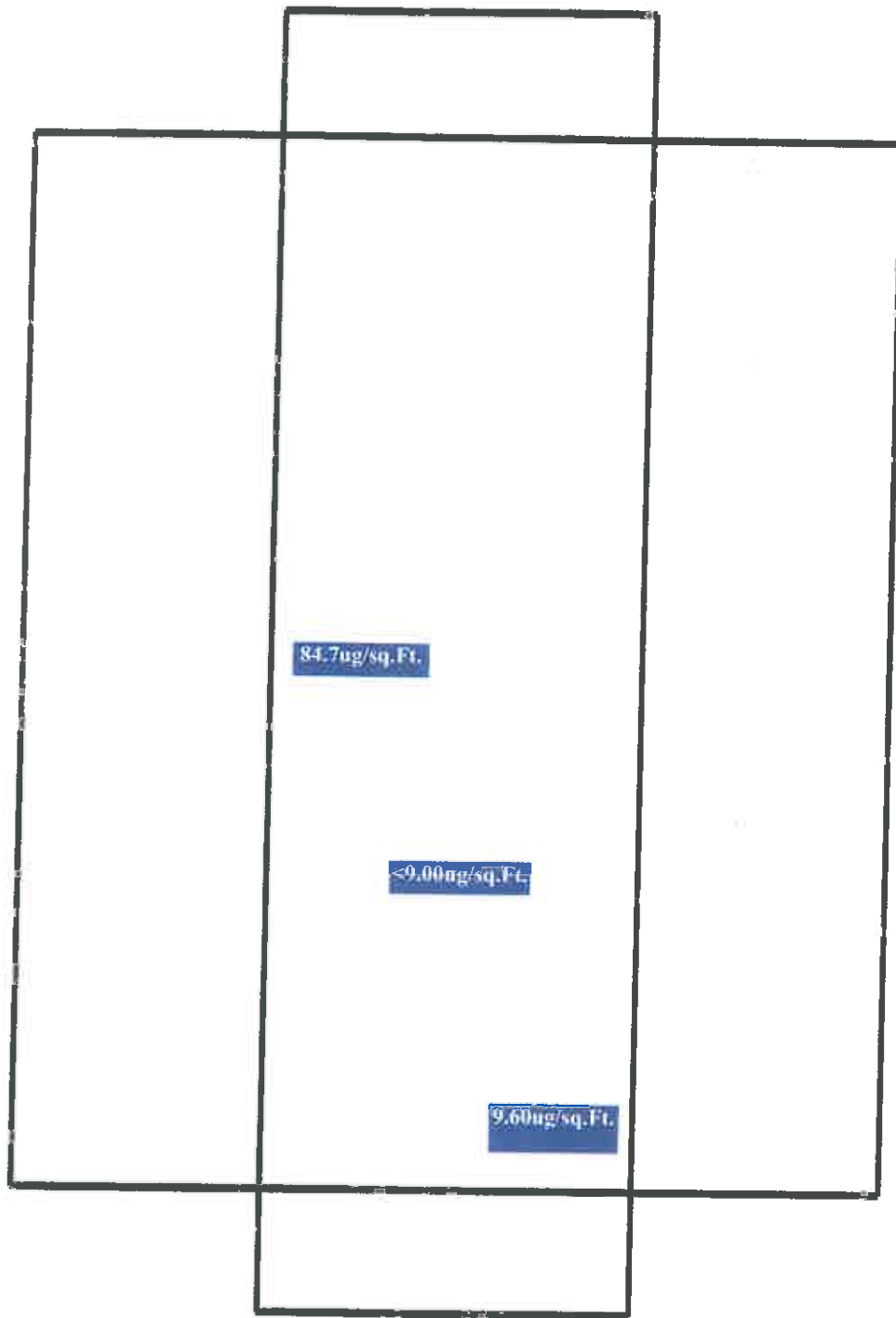
Guthrie Armory 11-15-13



Guthrie Armory
Firing Range Floor Plan
11-15-13



Guthrie Armory Firing Range Floor Plan 11-15-13





www.QuanTEM.com

Company: Marshall Environmental
 Contact: Jamie Marshall
 Account #: _____
 Sampled By: _____
 Name: _____

Contact Information:
 Phone: 361-8138
 Cell Phone: _____
 E-mail: _____

Project Information:
 Project Name: Guthrie Armory
 Project Location: _____
 Project ID: _____

For Lab Use Only
 Lab No. 029451
 Accept Reject

Report Results (☑ one box)
 QUANTEM Website
 Other Dustin Davidson
@DEQ

REQUISITIONED BY: [Signature] DATE & TIME: 12/20/13 VIA: Hand RECEIVED BY: [Signature] DATE & TIME: 11/20/13 12:41

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 (☑ ONE box only)				Sample Matrix Codes
						Pb	PPM	Wt %	mg / l	µg / ft ²	µg / m ²	mg / cm ²	A	
1		North IFR Floor	N/A	144 in ²	C									Soil
2		Center IFR Floor												Paint Chips
3		South IFR Floor												Surface / Dust Wipes
4		West IFR Wall												Bulk Miscellaneous
5		West IFR Wall												Air Cassette
6		West IFR Wall												
7		East IFR Wall												
8		East IFR Wall												
9		East IFR Wall												
10		North IFR ceiling												
11		Center IFR ceiling												
12		South IFR ceiling												

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



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Lab No. 229451

Accept Reject

Report Results (one box)

QuantEM Website

Other

Project Information

Project Name: _____

Project Location: _____

Project ID: _____

Contact Information

Phone: _____

Cell Phone: _____

E-mail: _____

Date: _____

RELINQUISHED BY: _____ RECEIVED BY: _____

DATE & TIME: _____ DATE & TIME: _____

VIA _____

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	Wt %	mg / l	µg / ft ²	µg / m ³	
1	13	North IFR wall	NA	144 in x 2 C	Pb							A
2	14	South IFR wall										B
3												C
4												D
5												E
6												
7												
8												
9												
10												
11												
12												

TURNAROUND TIME

Same Day

24 - Hour

3 - Day

5 - Day



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

Environmental Chemistry Analysis Report

QuanTEM Set ID: 229451	Client: Marshall Environmental Management, Inc.
Date Received: 11/22/13	1601 SW 89th Street, Ste. A-100
Received By: Sherric Leftwich	Oklahoma City, OK 73159
Date Sampled:	Acct. No.: A331
Time Sampled:	Project: Guthrie Armory
Analyst: CC	Location: N/A
Date of Report: 11/25/2013	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.	11/25/13 14:00	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
003	3	Wipe	Lead	12.5	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
007	7	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
008	8	Wipe	Lead	19.7	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
009	9	Wipe	Lead	73.5	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
010	10	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
011	11	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
012	12	Wipe	Lead	13.5	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
013	13	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	W NIOSH 9100
014	14	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/25/13 14:00	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



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Environmental Chemistry Analysis Report

Quantem Set ID: 229451
Date Received: 11/22/13
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 11/25/2013

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

Aect. No.: A331

Project: Guthrie Armory

Location: N/A

Project No.: N/A

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
------------	-----------	--------	-----------	---------	------------------	-------	--------------------	--------

Authorized Signature: _____

Benton Miller, Analyst

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. Quantem is not responsible for user-supplied data used in calculations.

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

Supplemental Report QAQC Results

QA ID: 11561
Test: Lead

Date: 11/25/2013
Matrix: Wipe

Lab Number: 229451
Approved By: Benton Miller
Date Approved: 11/25/2013

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	5.5
FCV	4.5	5	5.5
ICV	0.9	1.04	1.1
RLVS	0.144	0.186	0.216

Duplicate Data:

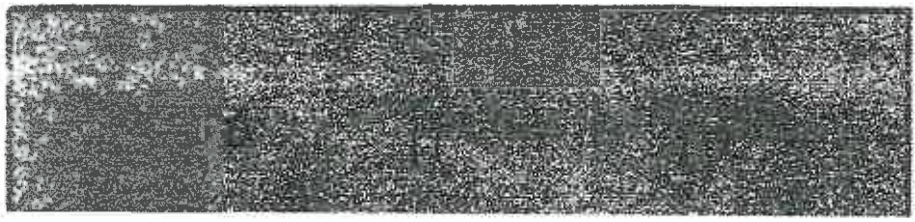
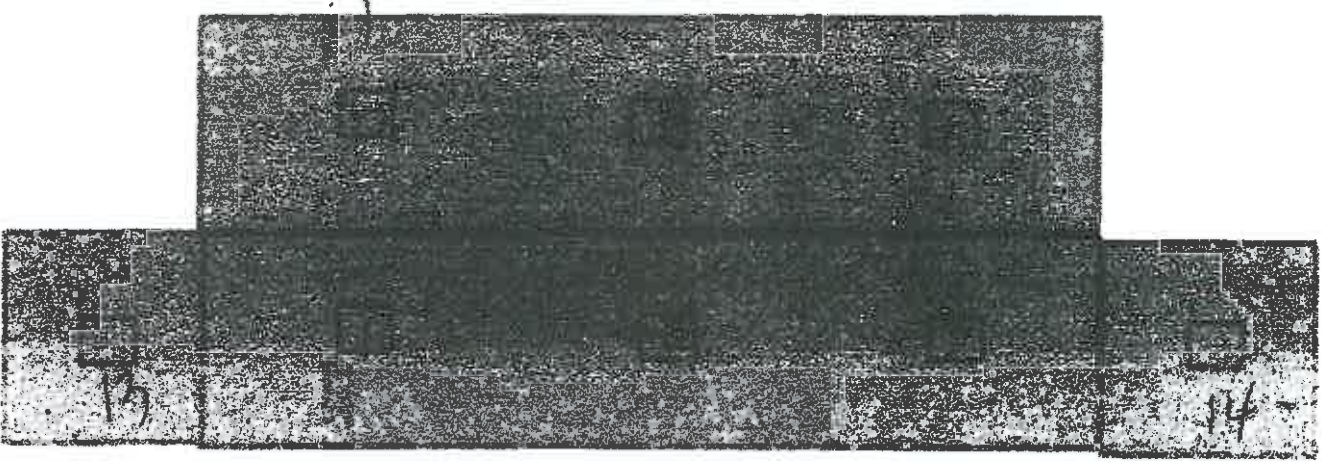
Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.040	4.940	98.0	5.009	99.4	1.4

Authorized Signature: _____

Benton Miller, Analyst

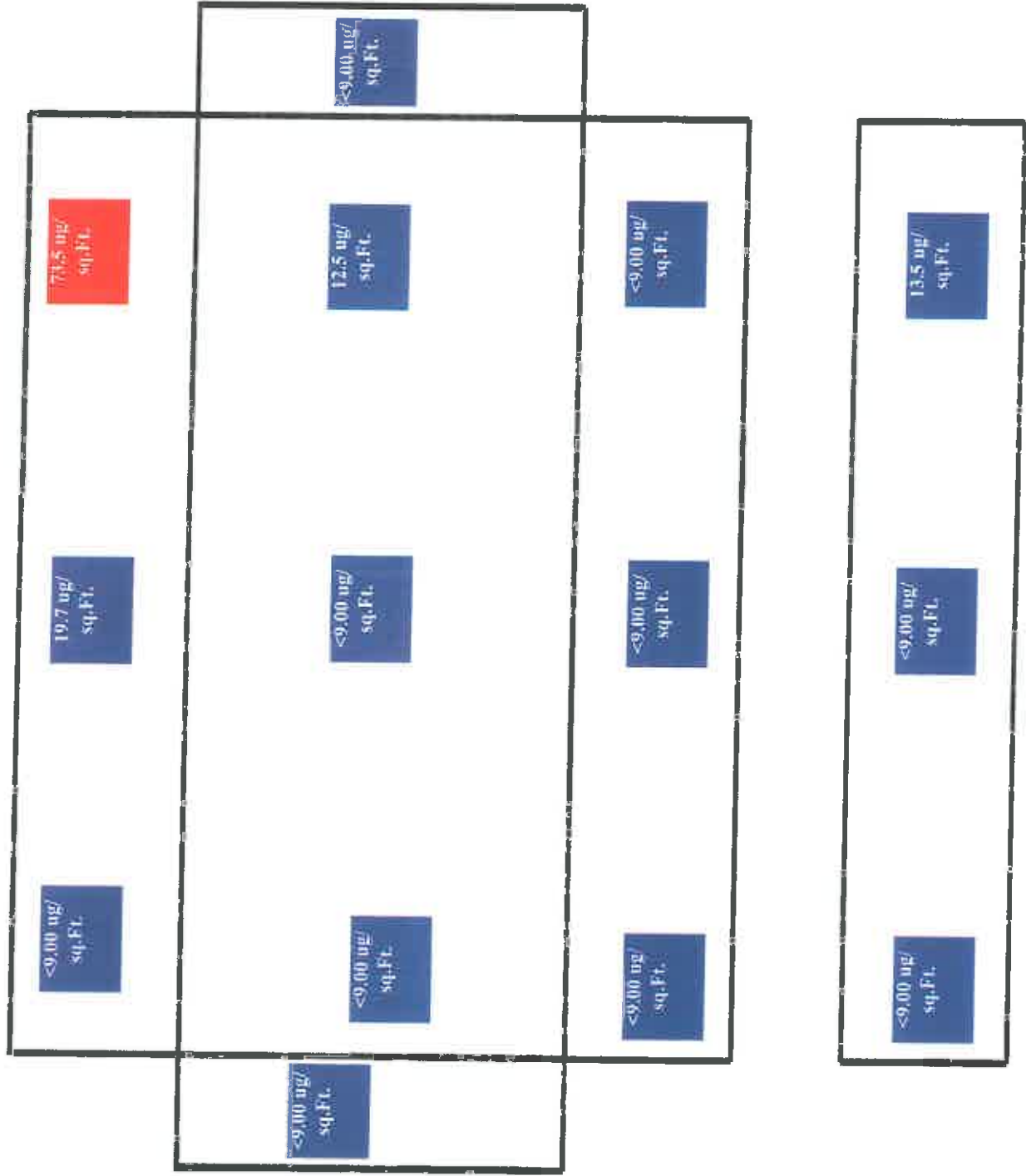
2k



Guthrie Armory IFR After Seal

11-22-13

N ←





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For Lab Use Only
 Lab No. 230043
 Accept Reject

Report Results: one box
 QuantEM Website
 Other Destination Durbin

Project Information
 Project Name: Satrie Army
 Project Location: Guthrie Avenue
 Project ID:

Contact Information:
 Company: MEM
 Contact: Jamie Marshall
 Account #: _____
 Sampled By: _____
 Date: _____

RELINQUISHED BY: [Signature] DATE & TIME: 12/16/13
 VIA: Hand RECEIVED BY: [Signature] DATE & TIME: 12/16/13 1:20

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					Sample Matrix Codes	
						PPM	Wt %	mg/l	ug/ft ²	ug/m ²		mg/cm ²
1		Rm 20 South	N/A	144m ²	C							
2		↓ Center										
3		↓ North										
4		Rm 14 West										
5		↓ Center										
6		↓ East										
7		Rm 13 West										
8		↓ Center										
9		↓ East										
10		Rm 15 West										
11		↓ Center										
12		↓ East										

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

Sample Matrix Codes
 A Soil
 B Paint Chips
 C Surface / Dust Wipes
 D Bulk Miscellaneous
 E Air Cassette



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 Lab No. 230043
 Accept Reject
 Report Results (one box)
 Quantem Website
 Other

Project Information

Project Name: _____
 Project Location: _____
 Project ID: _____

Contact Information:

Company: _____ Phone: _____
 Contact: _____ Cell Phone: _____
 Account #: _____ Email: _____
 Sampled By: _____ Name: _____ Date: _____

RELINQUISHED BY: _____ DATE & TIME: _____ VIA: _____ RECEIVED BY: _____ DATE & TIME: _____

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
						Pb				PPM	Wt %	mg / l	mg / ft ²	
13	13	Rm 16 West	N/A	144 in x 2	C									
14	14	Cont												
15	15	East												
16	16	Rm 19 West												
17	17	Cont												
18	18	East												
19	19	Rm 17 West												
20	20	Cont												
21	21	East												
22	22	Rm 6 East												
23	23	North												
24	24	West												

TURNAROUND TIME

Same Day _____
 24 - Hour _____
 3 - Day _____
 5 - Day _____



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

Environmental Chemistry Analysis Report

QuantEM Set ID: 230043	Client: Marshall Environmental Management, Inc.
Date Received: 12/16/13	1601 SW 89th Street, Ste. A-100
Received By: Sherric Leftwich	Oklahoma City, OK 73159
Date Sampled:	
Time Sampled:	
Analyst: CC	Acct. No.: A331
Date of Report: 12/17/2013	Project: Guthrie Armory
	Location: Guthrie Armory
	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	15.8	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
002	2	Wipe	Lead	43.2	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
003	3	Wipe	Lead	9.98	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
004	4	Wipe	Lead	32.9	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
005	5	Wipe	Lead	28.3	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
007	7	Wipe	Lead	20.0	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
009	9	Wipe	Lead	13.7	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
010	10	Wipe	Lead	52.2	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
011	11	Wipe	Lead	19.1	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
012	12	Wipe	Lead	49.2	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
013	13	Wipe	Lead	3,000	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
014	14	Wipe	Lead	2,020	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
015	15	Wipe	Lead	177	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
016	16	Wipe	Lead	19.3	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
017	17	Wipe	Lead	33.1	9	ug/sq. Ft.	12/17/13 10:00	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



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Environmental Chemistry Analysis Report

QuantEM Set ID: 230043
Date Received: 12/16/13
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 12/17/2013

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

Acct. No.: A331

Project: Guthrie Armory

Location: Guthrie Armory

Project No.: N/A

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	51.1	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
019	19	Wipe	Lead	10.6	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
020	20	Wipe	Lead	12.4	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
021	21	Wipe	Lead	15.3	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
022	22	Wipe	Lead	32.9	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
023	23	Wipe	Lead	43.2	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100
024	24	Wipe	Lead	24.5	9	ug/sq. Ft.	12/17/13 10:00	W NIOSH 9100

Authorized Signature: _____

Benton Miller, Analyst

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

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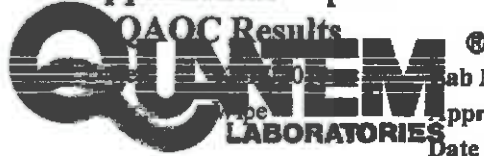
Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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

Supplemental Report



QA ID: 11619
 Test: Lead

Lab Number: 230043
 Approved By: Benton Miller
 Date Approved: 12/17/2013

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

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	5	5.5
ICV	0.9	1.04	1.1
RLVS	0.144	0.175	0.216

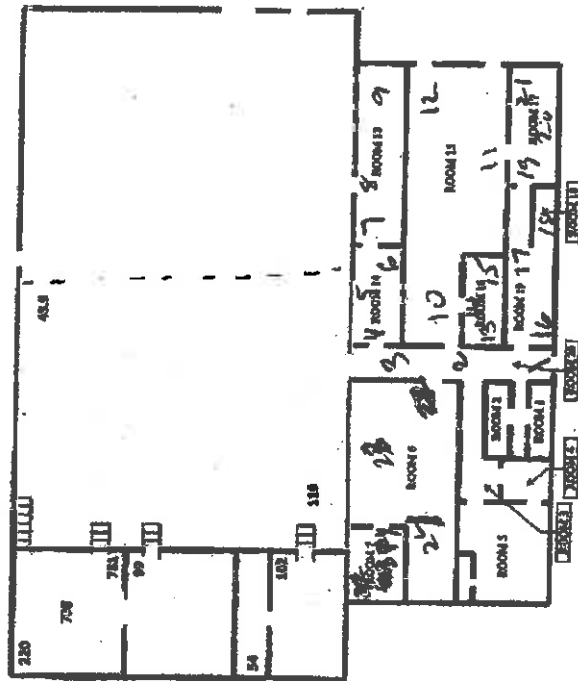
Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.040	4.875	96.7	4.707	93.4	3.5

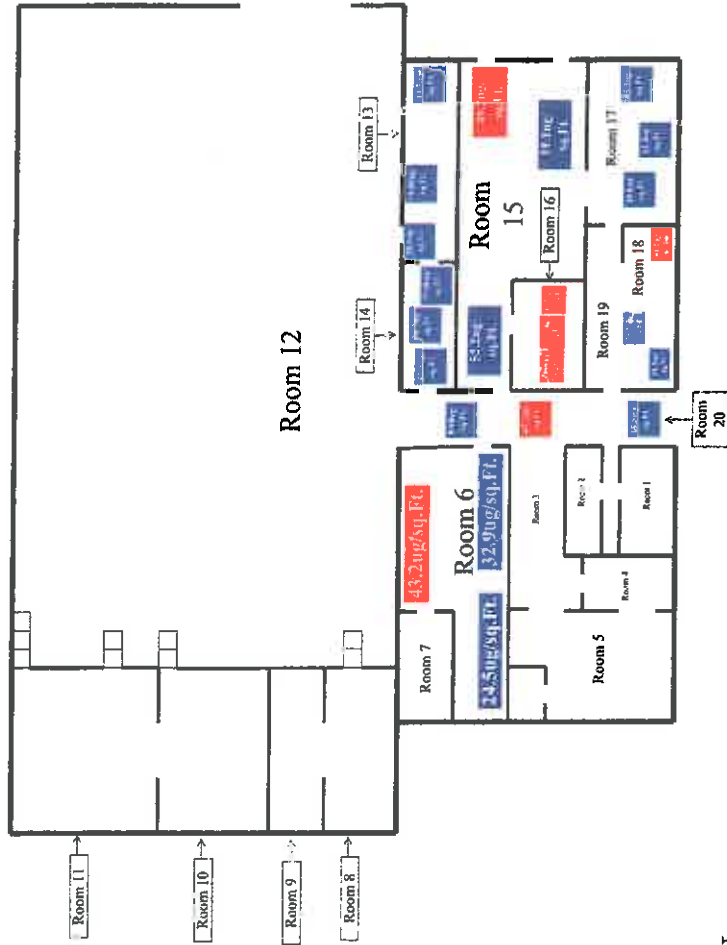
Authorized Signature: 
 Benton Miller, Analyst

GUTHRIE ARMORY



Guthrie Armory

12-16-13





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<input checked="" type="radio"/> Accept <input type="radio"/> Reject
Report Results (<input checked="" type="checkbox"/> one box)
<input checked="" type="checkbox"/> QuantEM Website
Other <u>Dust's Davidson</u>

Contact Information:		Project Information:	
Company: <u>MEM</u>	Phone: <u>361-8138</u>	Project Name: <u>Guthrie Army</u>	Project ID:
Contact: <u>Jamie Marshall</u>	Cell Phone:	Project Location:	
Account #:	Email:		
Sampled By: <u>[Signature]</u>	Name:	Date:	

RELINQUISHED BY: <u>[Signature]</u>	DATE & TIME: <u>12/27/13 1615</u>	VIA:	RECEIVED BY: <u>S. Leffric</u>	DATE & TIME: <u>12/27/13 4:15</u>
-------------------------------------	-----------------------------------	------	--------------------------------	-----------------------------------

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	TURNAROUND TIME	
							PPM	Wt %	mg / l	µg / ft ²	µg / m ³			mg / cm ²
1		Room 20 North	N/A	144 in ²	C	Pb						A	Soil	Same Day
2		↓ Counter										B	Paint Chips	24 - Hour
3		↓ South										C	Surface / Dust Wipes	3 - Day
4		Room 14 West										D	Bulk Miscellaneous	5 - Day
5		↓ Counter										E	Air Cassette	
6		↓ East												
7		Room 18 West												
8		↓ Counter												
9		↓ East												
10		Room 15 West												
11		↓ Counter												
12		EE 91												

REQUESTED SERVICES: (Please the Appropriate Boxes)

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"



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For Lab Use Only

Lab No. 230352

Accept Reject

Report Results: one box

Quantem Website

Other

Company: _____ Project Information

Contact: _____ Project Name: _____

Account #: _____ Project Location: _____

Sampled By: _____ Date: _____ Project ID: _____

RELINQUISHED BY: _____ DATE & TIME: _____ VIA: _____ RECEIVED BY: _____ DATE & TIME: _____

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	µg/ft²	µg/m³	mg/cm²	
1	13	Room 16 East	N/A	1447m²	C	Pb						A
2	14	↓ North										B
3	15	↓ South										C
4	16	Room 17 East										D
5	17	↓ NW										E
6	18	↓ SW SW										
7	19	Room 5 SW										
8	20	↓ NE										
9	21	↓ SE										
10	22	Room 4 West										
11	23	↓ North										
12	24	↓ East										

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



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Page 3 of 3

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Lab No. 230352

Accept Reject

Report Results: (one box)

QuantEM Website

Other

Project Information

Project Name: _____

Project Location: _____

Project ID: _____

Date: _____

Contact Information

Phone: _____

Cell Phone: _____

E-mail: _____

Relinquished By: _____

Date & Time: _____

VIA _____

Received By: _____

Date & Time: _____

REQUESTED SERVICES: (Please <input checked="" type="checkbox"/> 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	mg / l	µg / ft ²	µg / m ²	mg / cm ²
25	25	Room 3 NW	N/A	144.2	C	Pb	PPM				
26	26	↓									
27	27	Room 1 NE									
28	28	↓									
29	29	Room 1 West									
30	30	↓									
31	31	Room 2 West									
32	32	↓									
33	33	Room 2 East									
10											
11											
12											

Sample Matrix Codes	
A	Soil
B	Paint Chips
C	Surface / Dust Wipes
D	Bulk Miscellaneous
E	Air Cassette

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



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

Environmental Chemistry Analysis Report

QuantEM Set ID: 230352 Date Received: 12/27/13 Received By: Sherrie Leftwich Date Sampled: Time Sampled: Analyst: CC Date of Report: 12/30/2013 AIHA ID: 101352	Client: Marshall Environmental Management, Inc. 1601 SW 89th Street, Ste. A-100 Oklahoma City, OK 73159 Acct. No.: A331 Project: Guthrie Armory Location: N/A Project No.: N/A
---	---

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	1	Wipe	Lead	18.4	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
002	2	Wipe	Lead	16.1	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
003	3	Wipe	Lead	15.3	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
004	4	Wipe	Lead	193	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
005	5	Wipe	Lead	10,500	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
006	6	Wipe	Lead	5,960	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
007	7	Wipe	Lead	96.8	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
008	8	Wipe	Lead	125	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
009	9	Wipe	Lead	234	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
010	10	Wipe	Lead	81.6	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
011	11	Wipe	Lead	17.7	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
012	12	Wipe	Lead	70.3	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
013	13	Wipe	Lead	11.2	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
014	14	Wipe	Lead	<9.00	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
015	15	Wipe	Lead	10.5	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
016	16	Wipe	Lead	<9.00	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
017	17	Wipe	Lead	11.8	9	ug/sq. Ft.	12/30/13 14:30	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: 230352	Client: Marshall Environmental Management, Inc.
Date Received: 12/27/13	1601 SW 89th Street, Ste. A-100
Received By: Sherrie Leftwich	Oklahoma City, OK 73159
Date Sampled:	
Time Sampled:	Acct. No.: A331
Analyst: CC	Project: Guthrie Armory
Date of Report: 12/30/2013	Location: N/A
	Project No.: N/A

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	18	Wipe	Lead	12.4	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
019	19	Wipe	Lead	43.5	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
020	20	Wipe	Lead	18.3	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
021	21	Wipe	Lead	11.3	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
022	22	Wipe	Lead	<9.00	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
023	23	Wipe	Lead	10.3	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
024	24	Wipe	Lead	12.6	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
025	25	Wipe	Lead	18.2	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
026	26	Wipe	Lead	<9.00	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
027	27	Wipe	Lead	44.6	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
028	28	Wipe	Lead	164	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
029	29	Wipe	Lead	167	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
030	30	Wipe	Lead	83.7	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
031	31	Wipe	Lead	87.4	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
032	32	Wipe	Lead	131	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100
033	33	Wipe	Lead	66.6	9	ug/sq. Ft.	12/30/13 14:30	W NIOSH 9100

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

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: 230352

Date Received: 12/27/13

Received By: Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst: CC

Date of Report: 12/30/2013

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

Acct. No.: A331

Project: Guthrie Armory

Location: N/A

Project No.: N/A

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
------------	-----------	--------	-----------	---------	------------------	-------	--------------------	--------

Authorized Signature: _____

Benton Miller, Analyst

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. Quantem is not responsible for user-supplied data used in calculations.

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

Supplemental Report QAQC Results

QA ID: 11652
Test: Lead

Date: 12/30/2013
Matrix: Wipe

Lab Number: 230352
Approved By: Benton Miller
Date Approved: 12/30/2013

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	5.5
FCV	4.5	4.8	5.5
ICV	0.9	1.04	1.1
RLVS	0.144	0.211	0.216

Duplicate Data:

Recovery Data:

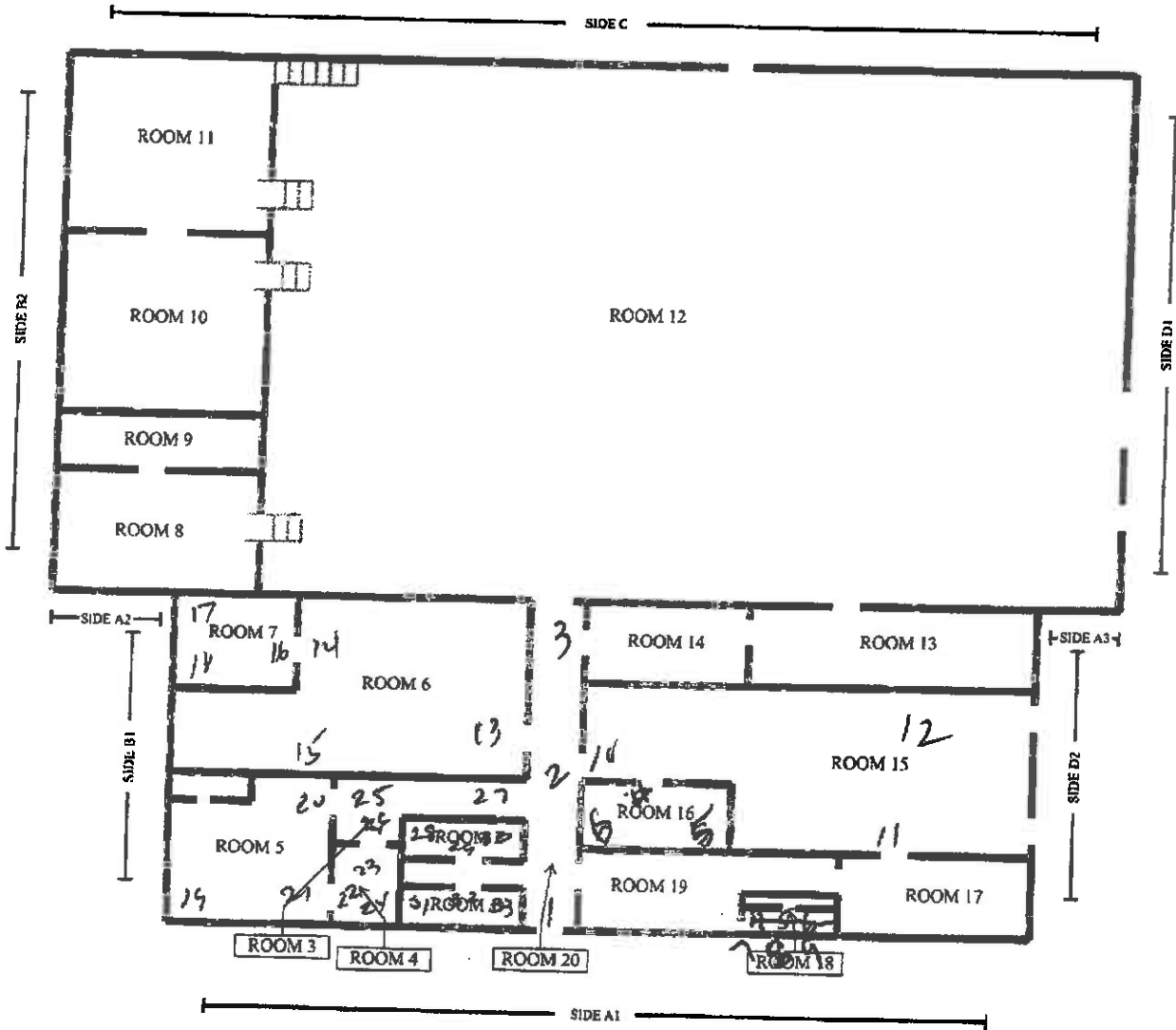
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.000	5.552	111.0	5.502	110.0	0.9

Authorized Signature: _____

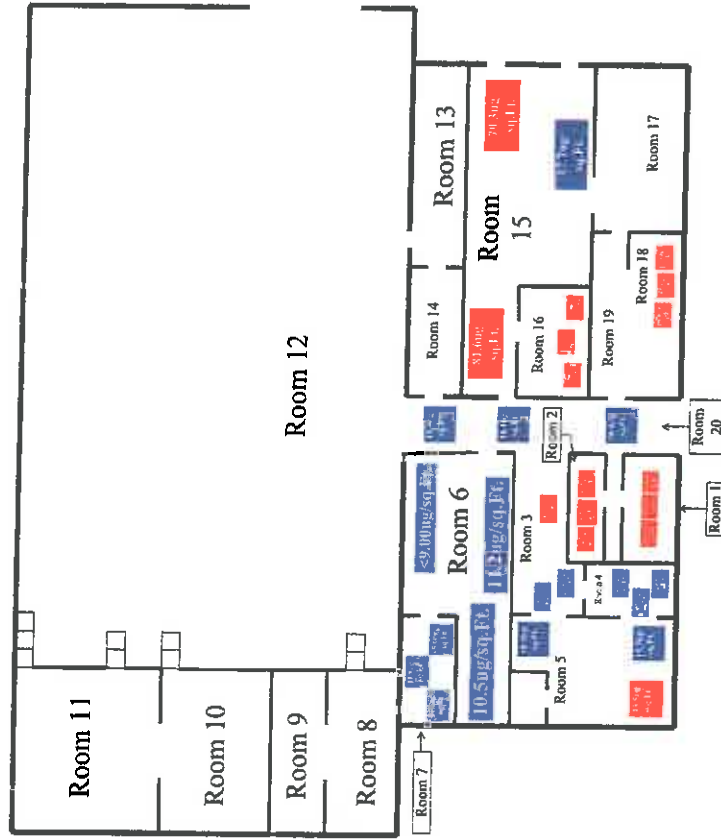

Benton Miller, Analyst

Q# 230352

GUTHRIE ARMORY



Guthrie Armory 12-27-13





LEAD CHAIN OF CUSTODY

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

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LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab Use Only
 Lab No. 23054
 Accept Reject

Company: Marshall Environmental
 Contact: Jame Marshall
 Account #: 1714
 Project Name: Guthrie Amorey
 Project Location: Guthrie, OK
 Project ID: 1714

Report Results (one box)
 QuanTEM Website
 Other

amstingaudsone
deg.ok.gov.

Sampled By: Rachel Woods Date: 1/7/14

RELINQUISHED BY: [Signature] DATE & TIME: 1/7/14 15:00
 RECEIVED BY: [Signature] DATE & TIME: 1/7/14 3:05

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	µg / ft ²	µg / m ²		A	B	C	D	E		
1		Room 12 - West		142	C	Pb			X									
2		Room 12 - North																
3		Room 12 - East																
4		Room 10 - East																
5		Room 10 - S.E.																
6		Between Room 1 & 2																
7		Room 2 - N.W.																
8		Room 2 - S.E.																
9		Room 1 - N.E.																
10		Room 1 - S.W.																
11		Room 3 - N.E.																
12		Room 5 - N.W.																
13		Room 5 - S.W.																

TURNAROUND TIME	
Same Day	
24 - Hour	X
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"



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

Environmental Chemistry Analysis Report

QuanTEM Set ID: 230541
Date Received: 01/07/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 1/8/2014

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

Acct. No.: A331

Project: Guthrie Armory

Location: Guthrie, 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	155	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
002	2	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
003	3	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
004	4	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
005	5	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
006	6	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
007	7	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
008	8	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
009	9	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
010	10	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
011	11	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
012	12	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100
013	13	Wipe	Lead	<9.00	9	ug/sq. Ft.	01/08/14 10:15	W NIOSH 9100

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

This report applies only to the standards or procedures indicated and to the specific samples tested. It is not indicative of the qualities of apparently identical or similar products or procedures, nor does it represent an ongoing assurance program unless so noted. These reports are for the exclusive use of the client and are not to be reproduced without specific written permission. QuanTEM is not responsible for user-supplied data used in calculations.

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: 230541
Date Received: 01/07/14
Received By: Barbara Holder
Date Sampled:
Time Sampled:
Analyst: CC
Date of Report: 1/8/2014

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

Acct. No.: A331

Project: Guthrie Armory

Location: Guthrie, OK

Project No.: N/A

AIHA ID: 101352

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
------------	-----------	--------	-----------	---------	------------------	-------	--------------------	--------

Authorized Signature: _____

Benton Miller, Analyst

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

Supplemental Report QAQC Results

QA ID: 11670
Test: Lead

Date: 1/8/2014
Matrix: Wipe

Lab Number: 230541
Approved By: Benton Miller
Date Approved: 1/8/2014

Notes:

Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.9	5.5
FCV	4.5	4.9	5.5
ICV	0.9	1.04	1.1
RLVS	0.144	0.186	0.216

Duplicate Data:

Recovery Data:

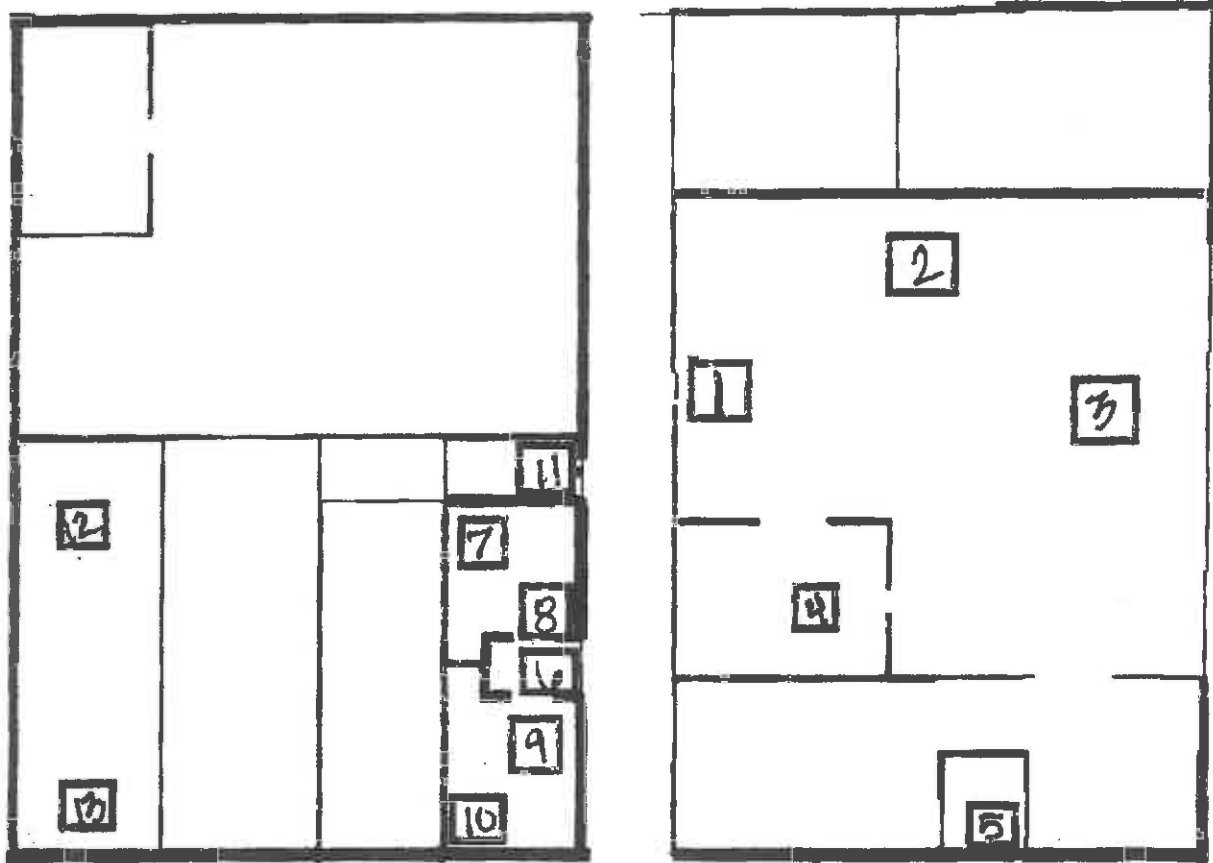
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.020	5.053	100.7	5.096	101.5	0.8

Authorized Signature: _____


Benton Miller, Analyst

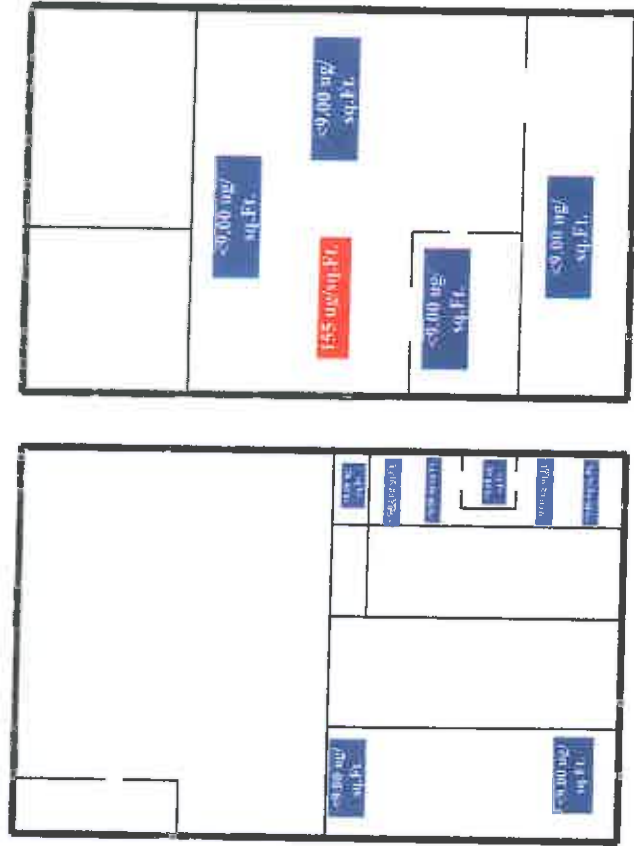
230541

Drill Floor



Front Entrance

**Guthrie Armory
Drill Floor
01-07-14**



Front Entrance



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

For Lab Use Only
 Lab No. 230807
 Accept Reject

Report Results one box
 QuantEM Website
 Other

Project Information
 Project Name: Guthrie Armory
 Project Location: Guthrie, OK
 Project ID:

Contact Information
 Company: PEQ
 Contact: Dustin Davidson
 Account #: _____
 Sampled By: Dustin Davidson Date: 1/13/14
 Phone: 405-702-5115
 Cell Phone: 405-317-4292
 E-mail: dustin.davidson@peq.com
 Date: 1/13/14
 RECEIVED BY: G. Smith
 DATE & TIME: 1/16/14 12:25

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			
						Pb	mg/l	mg / ft ²	µg / m ³	mg / cm ²	PPM	Wt %	µg / ft ²	µg / m ³	mg / cm ²				
1	1-3			12" x 12"	C	X													
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

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



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

Environmental Chemistry Analysis Report

QuantEM Set ID: 230807
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: Guthrie Armory
Location: Guthrie, 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

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: 11688
Test: Lead

Date: 1/16/2014
Matrix: Wipe

Lab Number: 230807
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:

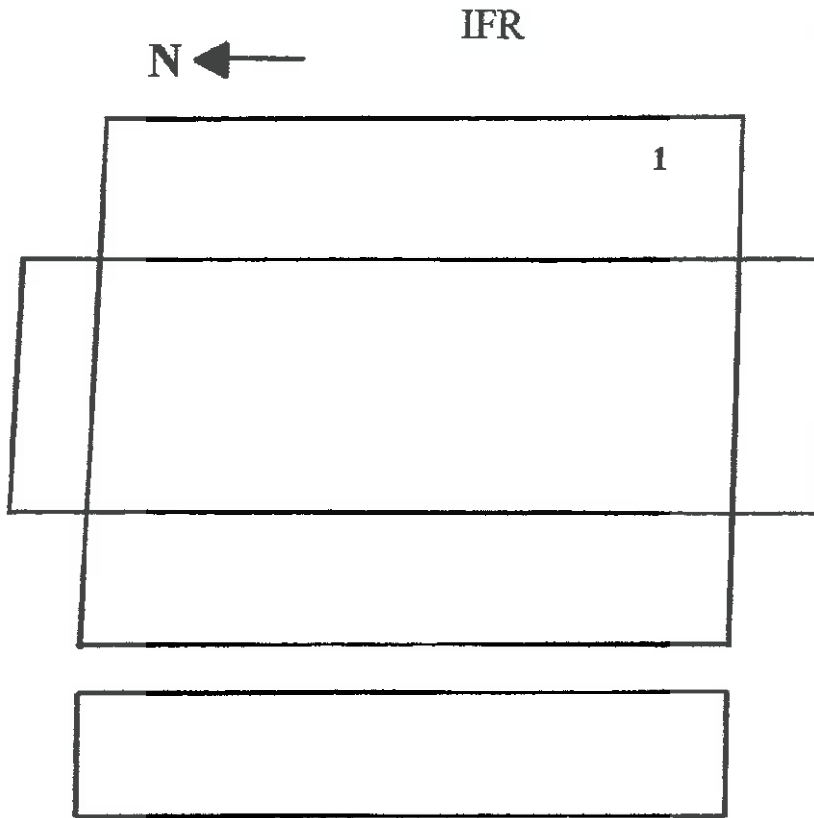
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W1	0.000	5.000	5.290	105.8	4.951	99.0	6.6

Authorized Signature: _____

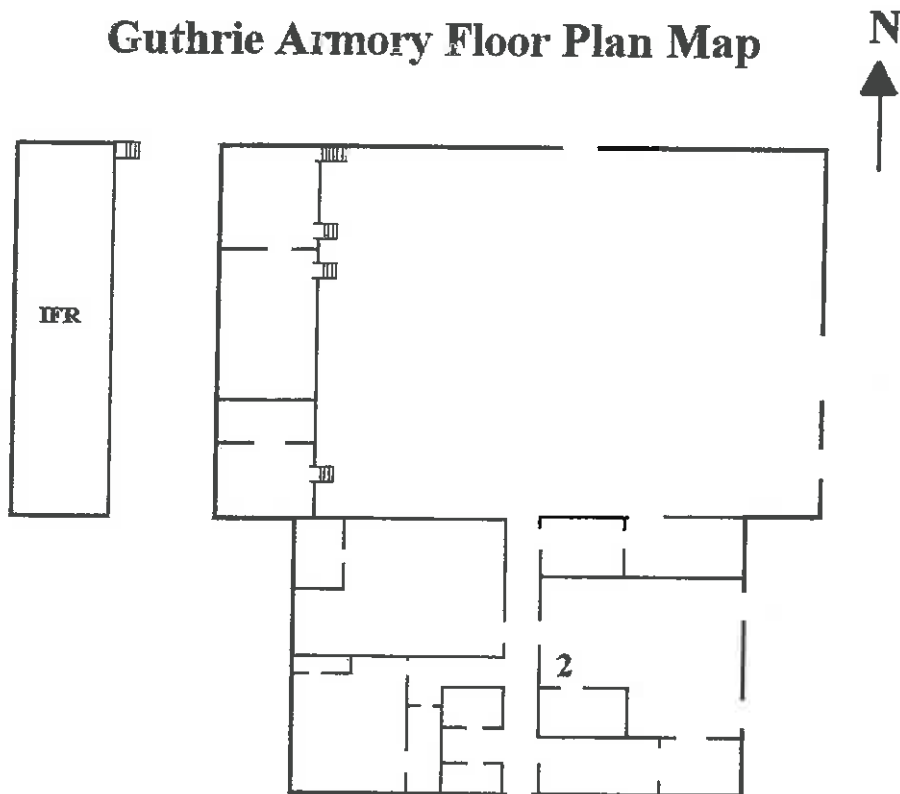


Benton Miller, Analyst

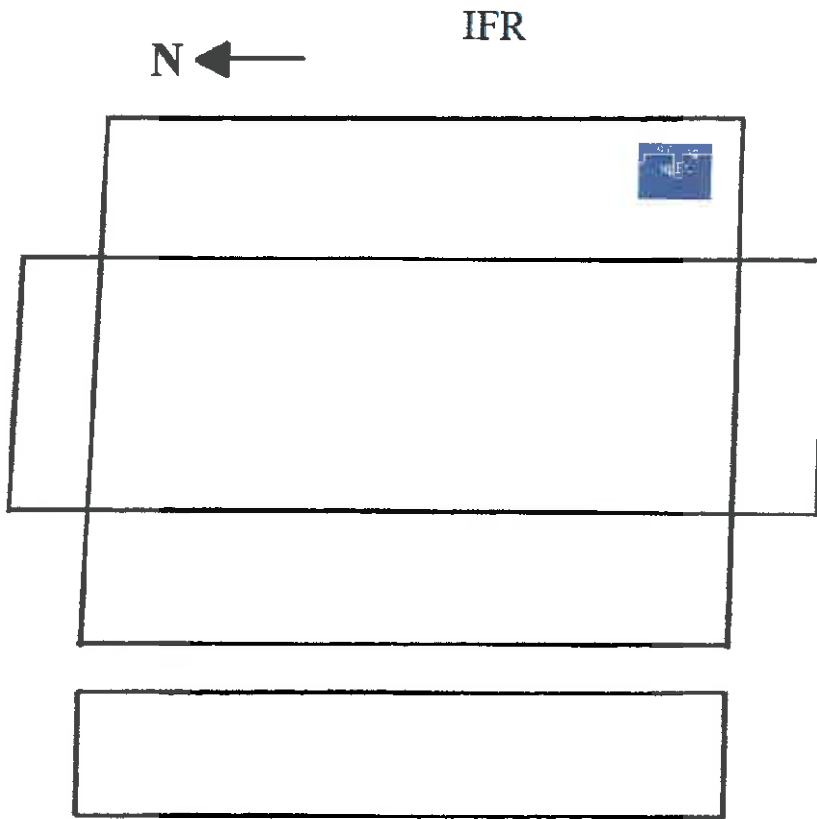
Guthrie Armory 1/13/2014



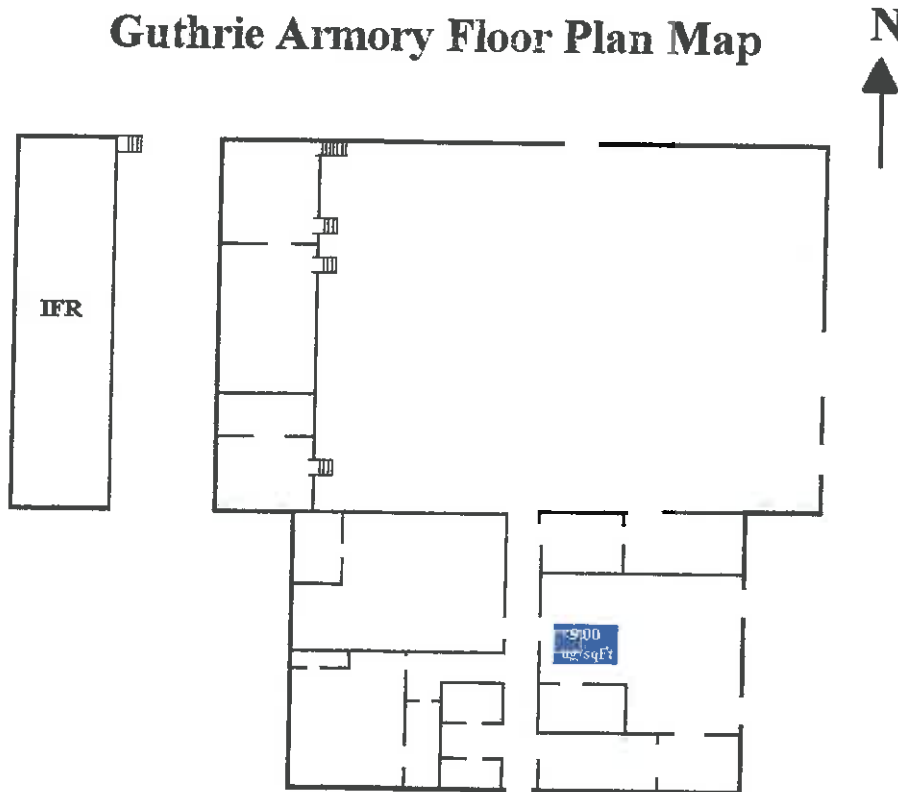
Guthrie Armory Floor Plan Map



Guthrie Armory 1/13/2014



Guthrie Armory Floor Plan Map



Department of Environmental Quality

This is to Certify That

RACHEL WOODS

has met the specifications of the Oklahoma Lead-Based Paint Management Act
and is certified as a Lead-Based Paint

INSPECTOR/RISK ASSESSOR

Certification #: OKRASR13701

This certification is valid from the date of issuance and expires as provided by law.

Issued on: **4/1/2014**

Expires on: **3/31/2015**



Division Director
Air Quality Division



Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

The one to Certify That

RACHEL WOODS

This and the qualifications of the Candidate listed below are subject to the provisions of the Air Quality Act and the Air Quality Regulations.

INSPECTOR/RISK ASSESSOR

Certification #: OKKASR13701

This certificate is valid from the date of issuance until in place or superseded by law.

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

This is to Certify That

MARSHALL ENVIRONMENTAL MANAGEMENT

has met the specifications of the Occupational Lead-Based Paint Mandatory Act
and is certified as a Lead-Based Paint

FIRM

Certification #: OKFIRM11160

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

Issued on: 4/1/2014

Expires on: 3/31/2015



Division Director
Air Quality Division



Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

It's not too early to think

MARSHALL ENVIRONMENTAL MANAGEMENT

has met the requirements of the Delaware Lead-Based Paint Mitigation Act
and is certified as a Lead-Based Firm

FIRM

Certification #: OKTIRM1160

The certificate is valid from the date of issuance and expires as provided by law.

Issued on: 4/1/2013

Expires on: 3/31/2014



Division Director
Air Quality Division





Environmental Programs Manager
Air Quality Division



STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

February 8, 2013

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

RACHEL WOODS
MARSHALL ENVIRONMENTAL MANAGEMENT
1601 SW 89th ST STE 100A
OKLAHOMA CITY, OK 73159

Dear RACHEL WOODS:

We are pleased to inform you that you have successfully passed the Department of Environmental Quality (DEQ) Inspector/Risk Assessor exam with an exam score of 80%. You are now certified as a Lead-Based Paint (LBP) Inspector/Risk Assessor, certification #OKRASR13701. The certification issued herein expires on March 31, 2013. The enclosed wall certificate is your documentation of DEQ certification and should be properly displayed per OAC 252:110-11-8. Your photo ID is included and should be carried as proof of certification.

Enclosed, please find two blank copies of the DEQ Inspector/Risk Assessor LBP Activity Quarterly Report Datasheet. This datasheet can be photocopied as needed. All LBP Abatements, Inspections, Risk Assessments, Hazard Screens, Clearance Testing and other LBP evaluation/detection services performed must be recorded on this datasheet and submitted quarterly per OAC 252:110-13-4. These reports are due by the 10th day of January, April, July, and October. Timely submission of these forms is a requirement for certification renewal. A current list of certified LBP professionals, as well as other information, is available upon request and from the Internet (<http://www.deq.state.ok.us>).

Thank you for your interest in our LBP Management Program. Please make sure all enclosures listed below are present at time of delivery. You have five days to report missing items. After that time, additional fees may be required before replacements will be issued. If you need further information or have any questions, please do not hesitate to contact Richard Hooper at (405) 702-4100. Please address all LBP correspondence to the following address: Department of Environmental Quality, Attn: LBP Staff, AQD, P.O. Box 1677, Oklahoma City, OK 73101.

Sincerely,

Randall L. Ward, Environmental Programs Manager
Technical Resources and Projects Section
Air Quality Division

RW:rh

- Enclosures: LBP ID Card
- LBP Wall Certificate
- LBP Inspector/Risk Assessor Quarterly Report
- LBP Inspector/Risk Assessor Exam Report



Department of Environmental Quality

This is a certified copy

CHARLES MARSHALL

This may be photocopied for use in the courtroom. It is not to be used for any other purpose.

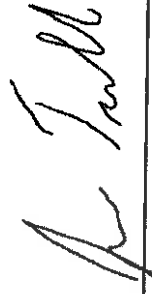
INSPECTOR/RISK ASSESSOR

Certification #: OKR1SR13418

This certification is valid from the date of issuance and expires as provided by law.

Issued on: 4/1/2011

Expires on: 3/31/2012



Division Director
Air Quality Division



Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

This is to Certify That

RACHEL WOODS

has met the specifications of the Oklahoma Lead-Based Paint abatement Act and is certified as a Lead-Based Painter

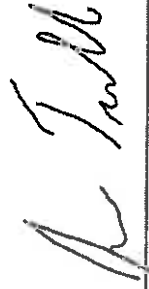
INSPECTOR/RISK ASSESSOR

Certification #: OKRASR13701

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

Issued on: **2/7/2013**

Expires on: **3/31/2013**



Division Director
Air Quality Division



Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

This is to Certify That:

CHARLES MARSHALL

has met the specifications of the Escutcheon Lead-Based Paint Management Act
and is certified as a Lead Based Paint

INSPECTOR/RISK ASSESSOR

Certification #: OKRASR13418

This certificate valid from the date of issuance and expires as prescribed by law.
Issued on: **8/10/2012** Expires on: **3/31/2013**



Division Director
Air Quality Division





Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

This is not a trade show

CHARLES MARSHALL

has met the requirements of the Oklahoma Lead-Based Paint Management Act
and is certified as a Lead-Based Painter

INSPECTOR/RISK ASSESSOR

Certification #: OSCR ASR13418

This certificate is valid through 4/1/2013 and expires as provided by law.

Issued on: 4/1/2013

Expires on: 3/31/2014



Division Director
Air Quality Division





Environmental Programs Manager
Air Quality Division



For Public Use

**OKLAHOMA
Lead-Based Paint
Certification**

Charles Marshall

OKRASR13418

Inspector/Risk Assessor

Expires March 31, 2015

**D
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Q**

Department of Environmental Quality

To certify that

CHARLES MARSHALL

has met the specifications of the Oklahoma Lead-Based Paint Mandyment Act
and is certified as a Lead-Based Paint

INSPECTOR/RISK ASSESSOR

Certification #: OKRASR13418

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

Issued on: **4/1/2014**

Expires on: **3/31/2015**



Division Director
Air Quality Division



Environmental Programs Manager
Air Quality Division



**OKLAHOMA
Lead-Based Paint
Certification**

Rachel Woods

OKRASR13701

Inspector/Risk Assessor

**D
E
Q**

877-368-7263



For Public Hire

**OKLAHOMA
Lead-Based Paint
Certification**

Rachel Woods

OKRASR13701

Inspector/Risk Assessor

**D
E
Q**

Expires March 31, 2015