

**Former National Guard Armory
Hobart, 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 Kiowa County with the Final Remediation Report for the former Hobart 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 Hobart Armory and describes continuing operation, 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 pipe wrap, drywall joint compound, floor tile mastic and roof panels
- Asbestos Abatement, including:
 - Removal and replacement of pipe wrap.
 - Removal of floor tile mastic and drywall joint compound.

TARGETED BROWNFIELD ASSESSMENT

In October 2011, DEQ provided a Phase I Targeted Brownfield Assessment to Kiowa County.

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 walls and other non-friction surfaces containing LBP

Removal and replacement of doors and windows containing LBP

Lead dust abatement, including:

HEPA vacuuming and wet washing of floors in the building

Proper disposal of associated waste



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

Numerical

1-2011-000961 Book 0765 Pg: 889
05/23/2011 11:45 am Pg 0889-0890
Fee: \$ 15.00 Doc: \$ 0.00
Geneva Watson - Kiowa County Clerk
State of Oklahoma



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 **Kiowa County, Oklahoma**, Grantee, the following described real property and premises lying and situated in the Kiowa County, State of Oklahoma, as follows:

A tract of land located in the South Half (S. ½) of the Southeast Quarter (SE ¼) of the Southwest Quarter (SW ¼) of Sec. 34, Twp. 7 North, Range Eighteen (18) West of the Indian Meridian, more particularly described by metes and bounds as follows:

Beginning at a point Eight Hundred Twenty-one (821) feet east and Twenty-two (22) feet north of the southwest corner of the Southeast Quarter (SE ¼) of the Southwest Quarter (SW ¼) of Section Thirty-four (34), Township Seven (7) North, Range Eighteen (18) West of the Indian Meridian, said point of beginning being Thirty-one (31) feet east and Eighty-two (82) feet north of the northeast corner of Block Two (2) in the Original Townsite of Hobart, Oklahoma; thence north normal to the said Original Townsite of Hobart, Oklahoma, a distance of Four Hundred (400) feet; thence west a distance of Two Hundred Twenty (220) feet; thence south a distance of Four Hundred (400) feet; thence east a distance of Two Hundred Twenty (220) feet to the point 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.

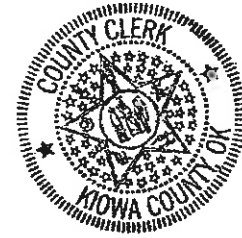
TO HAVE AND TO HOLD unto the Grantee, its successors, and assigns for so long as said real property is used for a public purpose as required for this transfer in accordance with title 44, section 233.3(B) of the Oklahoma Statutes.

Signed and delivered this 12 day of May 2011.

Numerical

RECEIVED

I-2013-000004 Book 0780 Pg: 92
01/02/2013 8:00 am Pg 0092-0094
Fee: \$ 0.00 Doc: \$ 0.00
Geanea Watson - Kiowa County Clerk
State of Oklahoma



JAN 04 2013

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

**NOTICE OF REMEDIATION
FORMER HOBART ARMORY
HOBART, OKLAHOMA**

LEGAL BASIS FOR NOTICE: The Oklahoma Department of Environmental Quality (DEQ) hereby files this Notice of Remediation pursuant to Oklahoma Statutes, 27A § 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.

The 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, Maintenance of said Engineering Controls herein described.

The Land Use Restrictions, Engineering Controls and Continuing Operation, 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 the 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 below described 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 August 24, 2011, indicated that there was asbestos, lead-based paint, and lead dust in the building.

AFFECTED PROPERTY: The Affected Property is the former Hobart Armory located at 217 N Lincoln S, Hobart, Kiowa County, Oklahoma 73651.

The legal description is as follows:

A tract of land located in the South Half (S. ½) of the Southeast Quarter (SE ¼) of the Southwest Quarter (SW ¼) of Sec. 34, Twp. 7 North, Range Eighteen (18) West of the Indian Meridian, more particularly described by metes and bounds as follows:

Beginning at a point Eight Hundred Twenty-one (821) feet east and Twenty-two (22) feet north of the southwest corner of the Southeast Quarter (SE ¼) of the Southwest Quarter (SW ¼) of Section Thirty-four (34), Township Seven (7) North, Range Eighteen (18) West of the Indian Meridian, said point of beginning being Thirty-one (31) feet east and Eighty-two (82) feet north of the northeast corner of Block Two (2) in the Original Townsite of Hobart, Oklahoma; thence north normal to the said Original Townsite of Hobart, Oklahoma, a distance of Four Hundred (400) feet; thence west a distance of Two Hundred Twenty (220) feet; thence south a distance of Four Hundred (400) feet; thence east a distance of Two Hundred Twenty (220) feet to the point of beginning, together with the improvements thereon and appurtenances thereunto belonging.

REMEDY: Remediation activities (Remedy) at the Affected Property included abatement of asbestos, lead-based paint and dust. The remedy was completed on August 31, 2012.

For more detailed information please refer to *Former National Guard Armory Hobart, 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.

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

- a. No residential use of the property 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.


These land use restrictions apply to the entirety of the Affected Property described herein above.

CHANGING LAND USE RESTRICTIONS: Changes to land use restrictions must be approved by the DEQ or its successor agency. The person requesting the change in land use must demonstrate to the 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.

The 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.

The 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, the DEQ will file a recordable notice of remediation pursuant to state law in the land records in the 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.



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

9-26-12

Date

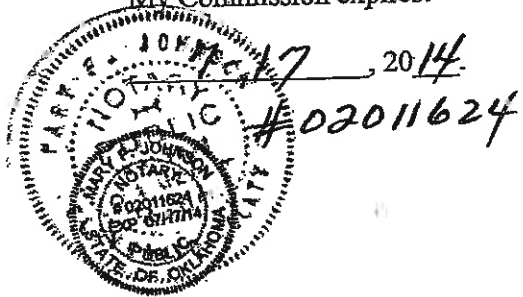
ACKNOWLEDGMENT

STATE OF OKLAHOMA
COUNTY OF OKLAHOMA

Before me, a Notary Public, in and for said County and State, on this 26th day of September, 2012, personally appeared Steven 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:





Notary Public

Maintenance Plan

**MAINTENANCE PLAN
FORMER HOBART ARMORY
HOBART, OKLAHOMA**

The Armory located at 217 North Lincoln Street, Hobart, Oklahoma, 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 August 24, 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 August 31, 2012. 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. All overhead door frames and guards 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.
2. All walls and ceilings in Rooms 2, 6, and 20 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 Hobart Armory Floor Plan Map.
3. All interior and exterior door and window lintels, and all wood window trim and window sills located in Rooms 1, 2, 6, and 20 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 Hobart Armory Floor Plan Map.
4. The painted brick wall in Room 3, the wood beams above windows in Room 1, and the door frame and door lintel located between Room 1 and Room 2 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 Hobart Armory Floor Plan Map.

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) 702-5115.

Sincerely,

Dustin Davidson

Dustin Davidson
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:

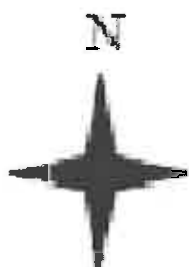
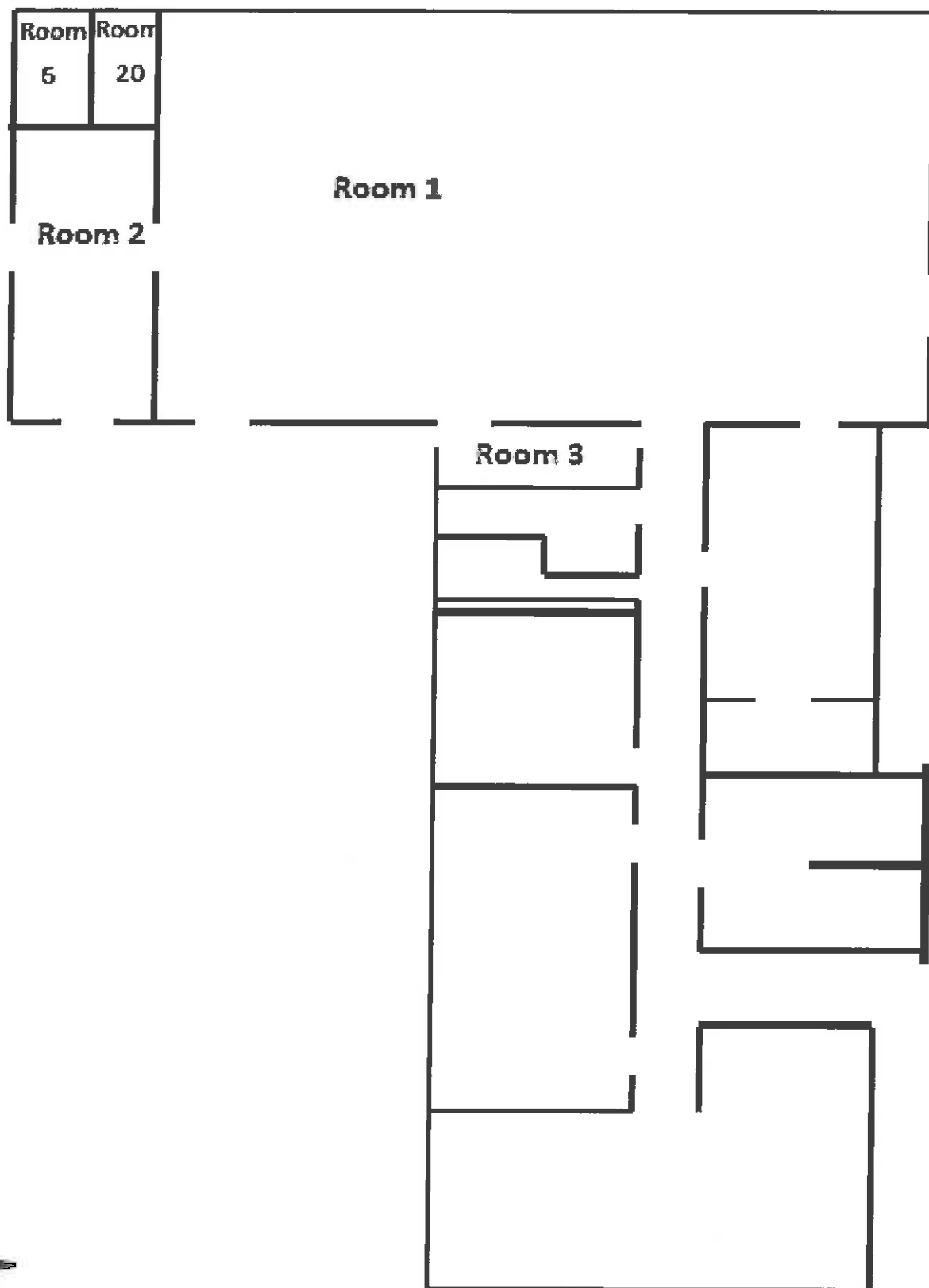
- a. No residential use of the property by children age 6 or under. Residential use is defined as having a child present at the Affected Property for more than sixteen (16) hours a day in excess of 30 days per year.

These land use restrictions apply to the entirety of the Affected Property described herein above.

ATTACHMENT 2

Hobart Armory Floor Plan Map

HOBART ARMORY FLOOR PLAN



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 Product(s)	Encapsulant
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

SURVEY AND ASSESSMENT FOR LEAD IN PAINT AND SETTLED DUST

NATIONAL GUARD ARMORY
217 NORTH LINCOLN STREET
HOBART, OKLAHOMA 73651

ENERCON Project Number ENMISC2393
August 24, 2011

Oklahoma Department of Environmental Quality
Land Protection Division
PO Box 1677
Oklahoma City, Oklahoma 73101-1677
Attention: Mr. Dustin Davidson

ENERCON

Excellence—Every project. Every day.

Enercon Services, Inc.
6525 North Meridian Avenue, Suite 400
Oklahoma City, Oklahoma 73116
Phone: (405) 722-7693
Fax: (405) 722-7694

Prepared By :



Marshall L. Branscum
Environmental Scientist
LBP Inspector, OKINSR13415
OKRASR11260

Reviewed By :



Emmett W. Muenker
Senior Project Manager
LBP Risk Assessor,

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APPENDICES

- Appendix A Building Layouts with LBP and Lead Dust Contamination Locations
- Appendix B Photographic Record of Representative Building Components with LBP
- Appendix C Dust Wipe Laboratory Report and Chain of Custody
- Appendix D XRF Data Spreadsheets
- Appendix E XRF Performance Characteristics Sheets
- Appendix F Lead-Based Paint Inspector, Risk Assessor, and Firm Licenses

EXECUTIVE SUMMARY

Enercon Services, Inc. (ENERCON) has completed a Survey and Assessment for Lead in Paint and Settled Dust (Survey) at the Hobart National Guard Armory, 217 North Lincoln Street, Hobart, Oklahoma. The survey was conducted on July 19, 2011 by Mr. Marshall Branscum and Mr. Richard Belcher, both of ENERCON.

The Survey and Assessment included non-destructive sampling of representative paint surfaces in the armory using an X-ray Fluorescence (XRF) Analyzer and dust wipe samples. Dust wipe samples were collected from the floor in each room using EPA/HUD wipe sampling protocols.

The results of XRF sampling indicated the following:

- Interior: Nine high bay windows in Room 1, six lower windows in Rooms 2, 6, and 20; the sliding metal door and lintel between Room 1 and Room 2; the door frame in Room 2 and the door track in Room 1 associated with the sliding door; the walls, baseboards, window sills/trim, wood trim and roof deck in Rooms 2, 6, and 20; the metal roof-support trusses in Room 1 and roof-support I-beams in Rooms 2, 6, and 20; the door and door frame in Room 20; the door frame Room 2; the brick wall in Room 3; and wooden beams located above the high bay windows on the north and south sides of Room 1 were coated with LBP.
- Exterior: Two beige door and door frames, twenty-one lintels, eight modified bollards and sixteen wall edge protectors at four roll-up doors were coated with LBP.

The results of wipe samples collected from the floors revealed:

- Lead contamination above 40 $\mu\text{g}/\text{ft}^2$ was present in seven rooms: Rooms 1, 2, 3, 6, 15, 16 and 20.

1.0 INTRODUCTION

Enercon Services, Inc. (ENERCON) has completed a Survey and Assessment for Lead in Paint and Settled Dust (Survey) at the Hobart National Guard Armory, 217 North Lincoln Street, Hobart, Oklahoma. The inspection was conducted on July 19, 2011 by Mr. Marshall Branscum and Mr. Richard Belcher, both of ENERCON.

The Hobart National Guard Armory was constructed on a concrete slab-on-grade foundation with flat roofs covered with tar and gravel over the office area and the three rooms to the west of the drill room, with a pitched corrugated Transite roof above the drill room. The walls were constructed of brick and concrete block. The building contained a large drill room with offices and other rooms located south of the drill room along a central corridor and three rooms located west of the drill room. Layouts are included in Appendix A.

The Survey was performed to identify the locations, condition and estimated quantities of Lead-Based Paint (LBP) and lead-laden settled dust in the Armory.

2.0 METHODOLOGY

The survey included visual observations, photographic documentation (Appendix B), dust wipe samples (Appendix C), and x-ray fluorescence (XRF) measurements of suspect Lead-Based Paint (LBP) (Appendix D). A visual inspection was performed in all rooms and the exterior of the building. The purpose of the visual inspection was to identify similarly painted surfaces so that representative XRF measurements could be made. These surfaces were determined by differentiating them by color, component and room. XRF measurements were then obtained for each building component type in each room and on each side of the building exterior. The criterion used for determination of the presence of LBP on painted surfaces was the EPA threshold for XRF readings as equal to or greater than 1.0 milligram per square centimeter (mg/cm^2).

One dust wipe sample was obtained in each room except for the drill room, where three samples were obtained, and in the corridor, where two samples were collected. The criterion used for dust wipe samples based upon sampling according to the EPA/HUD criteria for wipe samples and laboratory analysis where the lead concentration is equal to or greater than 40.0 micrograms per square foot ($\mu\text{g}/\text{ft}^2$).

The presence of LBP was determined using a Niton Model XLp-703A XRF (X-Ray Fluorescence) Analyzer, Serial Number 24295. At power-up, the unit performed routine internal calibration and operational checks. It was then checked for reading accuracy using a 1.0 mg/cm^2 standard paint chip supplied by the manufacturer by a series of three measurements of the standard paint chip. This calibration was done immediately prior to use, at least every four hours of operation and prior to shut down each day of use. The Performance Characteristic Sheet for the XLp-703A is provided in Appendix E of this

report. The location, component, substrate, color and other relevant information regarding the sample was entered into the XRF using the touchpad on the instrument as each measurement was made. Upon completion of the measurements, the data was downloaded into an Excel spreadsheet using software provided by the analyzer manufacturer. The Excel spreadsheet is provided in Appendix D of this report. Some corrections of the downloaded data were made due to obvious keypad entry errors. Due to the sensitivity of the proximity sensor on the XRF, a number of null readings resulted, particularly when attempting to sample rough or uneven painted surfaces. These readings were not deleted from the spreadsheet in order to maintain the continuity of the sample numbers.

Each room was given an arbitrary number on a building floor plan. The sides of the rooms and the building exterior were designated by letters with street address side labeled as "Side A," and the remaining sides denoted as B, C and D following a clockwise pattern.

The actual number of XRF measurements completed was dependent upon the different painted components and colors of paint present. The XRF instrument measures all layers of paint present at the sampling location. Therefore, the XRF instrument returns a positive reading even through layers of non-lead paint that have been applied when a layer of LBP exists on the component.

The condition of painted surfaces was recorded during the survey and is discussed in the Results Section below.

3.0 RESULTS

3.1 Lead-Based Paint

A total of 279 XRF samples were collected, including calibration and null readings. Figure 1 in Appendix A shows the location of the components with LBP. Table 1 shows the location and size of doors/door frames that tested positive for LBP. Table 2 lists the windows/window frames that tested positive by XRF and Table 2A lists the total number of windows by size and location, both those tested by XRF and those not tested but have same finish as those tested. Table 3 provides a summary of building components with LBP as identified by XRF sampling along with their locations and sizes. The location and number of components are shown on the layouts in Appendix A. It should be noted, that although the nine high bay windows/window frames in Room 1 and the six lower windows/window frames in Rooms 2, 6 and 20 are included with the interior components, the exterior of these windows/window frames are also coated with LBP. The painted surfaces sampled during the survey ranged from intact to poor condition. Representative photographs were taken of components where positive readings (1.0 mg/cm^2 or greater) were obtained and are provided in Appendix B.

The results of XRF sampling indicated the following building components were coated with LBP:

Interior Components:

- Nine high bay windows, Room 1
- Six lower windows, Rooms 2, 6, and 20
- Metal lintel, above doorway between Room 1 and 2
- Roof deck, Rooms 2, 6, and 20 ✓
- Wood beams above high bay windows, Room 1
- Metal roof trusses, Room 1
- Metal roof-support I-beams, Rooms 2, 6, and 20
- Walls, baseboards, window sills and wood trim, Rooms 2, 6, and 20
- Door frame, Room 2
- Sliding door, between Rooms 1 and 2
- Sliding door track, Room 1
- Door and door frame, Room 20
- Brick wall, Room 3

Exterior Components:

- Two beige doors and door frames, Sides A and C
- Twenty-one lintels above doors and windows, Sides A, B, C and D
- Eight modified bollards and sixteen wall edge protectors at four roll-up doors, Sides A and B

**Table 1 – Lead-Based Paint Locations (XRF)
Doors and Door Frames**

Identified Lead-Based Paint (Color/Description)	Lead Content (mg/cm ²)	Location	Size of Door/Frame
Beige/Door	1.3	Exterior, Side A	36" x 84"
Beige/Door Frame	2.8	Exterior, Side A	36" x 84"
Beige/Door	1.2	Exterior, Side C	72" x 80"
Beige/Door Frame	1.7	Exterior, Side C	72" x 80"
Red/Door	13.1	Room 1, Side C	75" x 96"
Black/Door Frame	2.8	Room 2, Side A	70" x 90"
Green/Door	2.6	Room 20, Side B	30" x 80"
Red/Door Frame	4.4	Room 20, Side B	30" x 80"

**Table 2 -- Lead-Based Paint Locations (XRF)
Windows and Window Frames**

Identified Lead-Based Paint (Color/Description)	Lead Content (mg/cm ²)	Location	Size of Windows
Beige/Window Frame	2.7	Exterior, Side C	42" x 36"
Beige/Window Frame	2.0	Exterior, Side C	42" x 36"
Beige/Window Frame	1.7	Exterior, Side D	42" x 36"
Beige/Window Frame	3.1	Exterior, Side D	42" x 36"
Brown/High Bay Window Frame	2.0	Room 1, Side B	42" x 36"
Brown/High Bay Window Frame	2.0	Room 1, Side B	42" x 36"
Brown/High Bay Window Frame	3.5	Room 1, Side D	42" x 36"

NOTE: Table 2 includes only windows tested positive by XRF.

Table 2A -- Total Windows/Window Frames with Lead-Based Paint

Identified Lead-Based Paint (Color/Description)	Number of Windows	Location	Size of Windows
Beige/Window Frame	4	Rooms 2 & 6, Side C	42" x 36"
Beige/Window Frame	2	Rooms 6 & 20, Side D	42" x 36"
Brown/High Bay Window Frame	4	Room 1, Side B	42" x 36"
Brown/High Bay Window Frame	5	Room 1, Side D	42" x 36"

NOTE: Table 2A includes all windows with LBP -- windows that tested positive by XRF and those with the same paint as those tested.

**Table 3 –Lead-Based Paint Locations (XRF)
Other Surfaces/Components**

Identified Lead-Based Paint (Color)	Lead Content (mg/cm²)	Location	Component and Substrate
Gray	4.8	Room 1, Side B	Beam above windows (Wood)
Gray	5.6	Room 1, Side B	I-Beam (Metal)
Gray	6.9	Room 1, Side B	Roof Support (Metal)
Gray	2.2	Room 1, Side D	Beam above windows (Wood)
Gray	2.2	Room 1, Side D	I-Beam (Metal)
Red	6.9	Room 1, Side C	Door Lintel (Metal)
Beige	2.0	Room 2	Roof Deck (Kaylo)
Black	4.5	Room 2, Side A	Wall Trim (Wood)
Green	3.2	Room 2, Side A	Wall Trim (Wood)
Green	4.4	Room 2, Side C	Wall Trim (Wood)
Black	2.4	Room 2, Side A	Baseboard (Wood)
Beige	4.8	Room 2, Side A	Wall (Drywall)
Green	3.6	Room 2, Side A	Wall (Drywall)
Green	2.8	Room 2, Side D	Wall (Drywall)
Green	2.3	Room 2, Side C	Wall (Drywall)
Beige	3.3	Room 2, Side C	Wall (Drywall)
Green	6.8	Room 2, Side C	Wall (Drywall)
Gray	4.5	Room 2, Side C	Window Sill (Wood)
Gray	3.5	Room 2, Side C	Window Sill (Wood)
Gray	3.6	Room 2, Side C	Window Trim (Wood)
Green	3.0	Room 2, Side C	Window Trim (Wood)
White	1.4	Room 3, Side D	Wall (Brick)

Blue	2.0	Room 6, Side C	Wall (Wood)
Blue	4.2	Room 6, Side D	Wall (Wood)
Blue	4.0	Room 6, Side B	Wall (Wood)
White	3.8	Room 6, Side A	Wall (Wood)
White	3.7	Room 6, Side A	Wall (Drywall)
Blue	2.1	Room 6, Side C	Baseboard (Wood)
Gray	3.3	Room 6, Side C	Window Sill (Wood)
Gray	3.0	Room 20, Side D	Window Sill (Wood)
Red	2.9	Room 20, Side A	Wall Trim (Wood)
White	2.7	Room 20, Side A	Wall (Drywall)
White	2.0	Room 20, Side B	Wall (Drywall)
White	2.6	Room 20, Side C	Wall (Drywall)
White	2.0	Room 20, Side D	Wall (Drywall)
Red	2.2	Room 20, Side A	Baseboard (Wood)
Yellow	13.0	Exterior, Side A	Modified Bollard (Metal)
Yellow	9.0	Exterior, Side A	Modified Bollard (Metal)
Yellow	6.2	Exterior, Side A	Edge Protector (Metal)
Yellow	5.2	Exterior, Side A	Edge Protector (Metal)
White	5.9	Exterior, Side A	Edge Protector (Metal)
White	4.8	Exterior, Side A	Edge Protector (Metal)
Beige	4.7	Exterior, Side A	Door Lintel (Metal)
White	5.0	Exterior, Side A	Roll-Up Door Lintel (Metal)
Yellow	5.8	Exterior, Side C	Modified Bollard (Metal)

Yellow	2.1	Exterior, Side C	Edge Protector (Metal)
White	5.3	Exterior, Side C	Edge Protector (Metal)
White	3.1	Exterior, Side C	Roll-Up Door Lintel (Metal)
Beige	3.3	Exterior, Side C	Door Lintel (Metal)
Beige	3.3	Exterior, Side C	Window Lintel (Metal)
Beige	6.6	Exterior, Side C	Window Lintel (Metal)
Beige	2.6	Exterior, Side D	Window Lintel (Metal)
Beige	7.2	Exterior, Side D	Window Lintel (Metal)

NOTE: Many components were not tested and were assumed positive by reference to other similar components painted the same color that tested positive. These components were not listed in this table; however, their locations are noted on Figure 1 in Appendix A.

3.2 Dust Wipe Samples

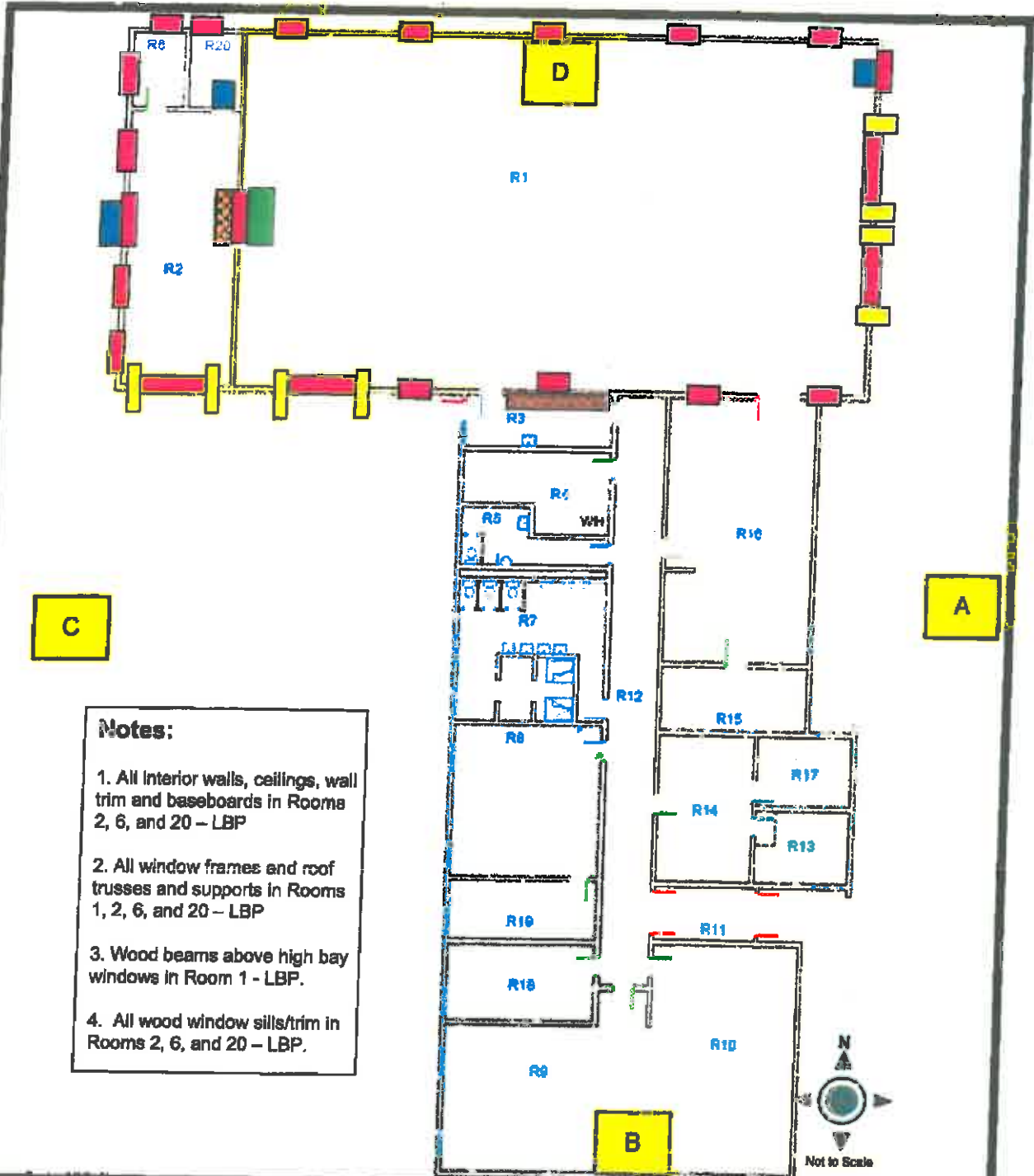
Dust wipe samples were obtained following the EPA/HUD protocol. A template measuring one square foot was used to provide a known sampling area. Concentrations of 40.0 $\mu\text{g}/\text{ft}^2$ or greater are considered contaminated, in accordance with HUD/EPA guidelines. One dust wipe sample was obtained in each room except for the drill room, where three samples were collected and the hallway/corridor where two samples were collected. A total of 23 wipe samples were collected. Laboratory results from the dust wipe samples are presented in Appendix C. Seven rooms had lead dust contamination above the threshold. The locations determined by laboratory analysis to be contaminated with lead dust are listed in Table 4 and on Figure 2 in Appendix A.

Table 4 – Positive Dust Wipe Locations

Sample Number	Lead Content ($\mu\text{g}/\text{ft}^2$)	Location	Square Footage of Positive Location
HA-1-01	146	Room 1	4,590 SF
HA-1-02	109	Room 1	
HA-1-03	89.4	Room 1	
HA-2-01	221	Room 2	624 SF
HA-3-01	51.3	Room 3	158 SF
HA-6-01	340	Room 6	83 SF
HA-15-01	92.4	Room 15	190 SF

HA-16-01	140	Room 16	760 SF
HA-20-01	295	Room 20	83 SF

APPENDIX A



- Notes:**
1. All interior walls, ceilings, wall trim and baseboards in Rooms 2, 6, and 20 – LBP
 2. All window frames and roof trusses and supports in Rooms 1, 2, 6, and 20 – LBP
 3. Wood beams above high bay windows in Room 1 - LBP.
 4. All wood window sills/trim in Rooms 2, 6, and 20 – LBP.

Legend:

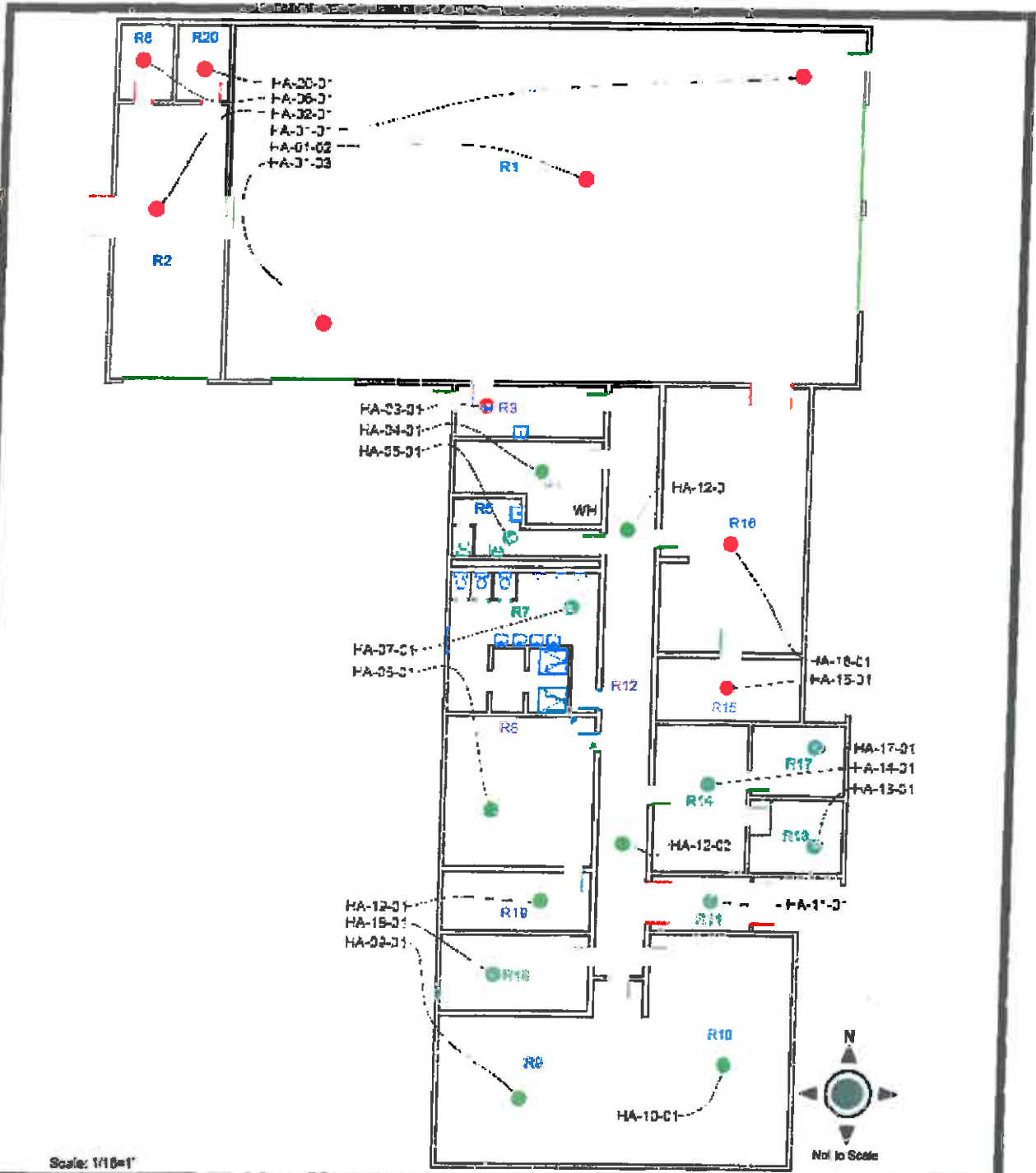
Door and Frame - LBP	Walls - LBP
Door Only - LBP	Lintels - LBP
Door Frame Only - LBP	
Edge Protector and Modified Bollard- LBP	

Oklahoma Department of Environmental Quality
 National Guard Armory
 217 N. Lincoln Street
 Hobart, OK

ENERCON

FIGURE 1
Lead-Based Paint Locations

Project No: ENMISC2393



Oklahoma Department of
 Environmental Quality
 National Guard Armory
 217 N. Lincoln Street
 Hobart, OK

Legend:

- Dust Wipe Sample Location, Positive, > 40 ug / ft²
- Dust Wipe Sample Location, Negative, < 40 ug / ft²

ENERCON

FIGURE 2
 Lead Dust Wipe Locations

Project No: ENMISC2393

APPENDIX B

APPENDIX B - PHOTOGRAPHIC RECORD

Project No: ENMISC2393

Project Name: Hobart National Guard Armory



Photo #1: Hobart National Guard Armory.



Photo #2: Modified bollards and edge protectors - LBP.



Photo #3: Lintel above roll-up door - LBP.



Photo # 4: Beige door, door frame, and lintel - LBP.



Photo # 5: Modified bollards and edge protectors - LBP.



Photo # 6: Window frame and lintel - LBP.

APPENDIX B - PHOTOGRAPHIC RECORD

Project No: ENMISC2393

Project Name: Hobart National Guard Armory



Photo #7: Door and frame and intel Side C Exterior - LBP



Photo #8: Roof trusses and supports in Room 1 - LBP.



Photo #9: Sliding door and track on Side C of Room 1 - LBP.



Photo #10: High bay window in Room 1 - LBP



Photo #11: Walls, door frame, wall trim, and baseboard-Room 2 - LBP.



Photo #12: Kaylo ceiling in Room 2 - LBP

APPENDIX B - PHOTOGRAPHIC RECORD

Project No: ENMISC2393

Project Name: Hobart National Guard Armory

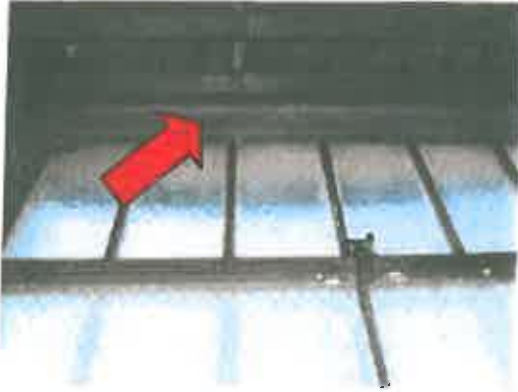


Photo #13: Gray painted wood beam above high-bay windows in Room 1 - LBP



Photo #14: White painted brick wall in Room 3 - LBP

APPENDIX C



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2638

Environmental Chemistry Analysis Report

QuantEM Set ID: 197788
Date Received: 07/20/11
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 7/21/2011

Client: Enercon Services, Inc.
 6525 N. Meridian, Suite 400
 Oklahoma City, OK 73116

Aect. No.: A845

Project: Hobart Armory
Location: 217 N. Lincoln St., Hobart, OK
Project No.: N/A

AIHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	HA-1-01	Wipe	Lead	146	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
002	HA-1-02	Wipe	Lead	109	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
003	HA-1-03	Wipe	Lead	89.4	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
004	HA-2-01	Wipe	Lead	221	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
005	HA-3-01	Wipe	Lead	51.3	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
006	HA-4-01	Wipe	Lead	32.8	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
007	HA-5-01	Wipe	Lead	34.5	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
008	HA-6-01	Wipe	Lead	340	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
009	HA-7-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
010	HA-8-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
011	HA-9-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
012	HA-10-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
013	HA-11-01	Wipe	Lead	16.6	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
014	HA-12-01	Wipe	Lead	33.1	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
015	HA-12-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
016	HA-13-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
017	HA-14-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	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 Preparation Modified. EPA 7420 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: 197788
Date Received: 07/20/11
Received By: Sherric Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 7/21/2011

Client: Enercon Services, Inc.
6525 N. Meridian, Suite 400
Oklahoma City, OK 73116

Acct. No.: A845

Project: Hobart Armory
Location: 217 N. Lincoln St., Hobart, OK

Project No.: N/A

AHA ID: 101352

QuantEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
018	HA-15-01	Wipe	Lead	92.4	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
019	HA-16-01	Wipe	Lead	140	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
020	HA-17-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
021	HA-18-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
022	HA-19-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	07/21/11 13:00	W EPA 7420 (1)
023	HA-20-01	Wipe	Lead	295	16	ug/sq. Ft.	07/21/11 13:00	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: 8982
Test: Lead

Date: 7/21/2011
Matrix: Wipe

Lab Number: 197788
Approved By: Benton Miller
Date Approved: 7/21/2011

Notes:

Blank Data:

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

Standards Data:

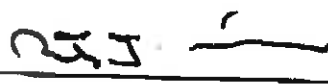
Standard	Low Limit	Obtained	High Limit
CCV	4.5	4.9	5.3
PCV	4.5	4.9	5.5
ICV	0.8	1.1	1.2
RLVS	0.256	0.382	0.384

Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0.000	5.427	5.925	109.2	5.900	108.7	0.4
MS-W1	0.000	5.438	5.496	101.1	5.454	100.3	0.8

Authorized Signature: _____



Benton Miller, Analyst



LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
 (800) 622-1650 • (405) 755-7372 • Fax: (405) 755-2056

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Lab No. 197788

Accept Reflect

Company: **ENERCON**

Project Name: **Hobart Armory**

Project Location: **217 N. Lincoln St., Hobart, OK**

Q#	PPM	Wt %	mg/l	µg/ft ²	µg/m ²	mg/cm ²
13						
14				✓		
15				✓		
16				✓		
17				✓		
18				✓		
19				✓		
20				✓		
21				✓		
22				✓		
23				✓		
24				✓		
25						
26						
27						
28						
29						
30						

- A Soil
- B Paint Chips
- C Surface / Dust Wipes
- D Bulk Miscellaneous
- E Air Cassette

199 in 2

Floor

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8317 • Ninth Pocketa "Hold for Saturday Pickup"

APPENDIX D

Hobart Armory
217 North Lincoln Street

Lead-Based Paint Inspection

Inspector: Marshall Branscum
July 19, 2011

Reading No	Time	Component	Substrate	Side	Condition	Color	Site	Room	Results	PbC	PbL	PbK
1	7/19/2011 9:46									2.9	0.52	0.01
2	7/19/2011 9:56						CALIBRATE		Positive	1	1	0.7
3	7/19/2011 9:57						CALIBRATE		Positive	1	1	0.6
4	7/19/2011 9:58						CALIBRATE		Positive	1	1	0.8
5	7/19/2011 10:05	MODIFIED BOLLARD	METAL	A	POOR	YELLOW	HOBART ARMORY	EXTERIOR	Positive	13	2.4	13
6	7/19/2011 10:05	MODIFIED BOLLARD	METAL	A	POOR	YELLOW	HOBART ARMORY	EXTERIOR	Positive	9	2.7	9
7	7/19/2011 10:13	EDGE PROTECTOR	METAL	A	POOR	YELLOW	HOBART ARMORY	EXTERIOR	Positive	6.2	1.8	6.2
8	7/19/2011 10:14	EDGE PROTECTOR	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Positive	5.2	1.2	5.2
9	7/19/2011 10:14	EDGE PROTECTOR	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Positive	5.9	4.3	5.9
10	7/19/2011 10:14	EDGE PROTECTOR	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Positive	4.8	3.2	4.8
11	7/19/2011 10:18	ROLL-UP DOOR	METAL	A	INTACT	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
12	7/19/2011 10:17	DOOR	METAL	A	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	1.3	1.3	1.3
13	7/19/2011 10:17	DOOR FRAME	METAL	A	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	2.8	2.8	4
14	7/19/2011 10:18	DOOR LINTEL	METAL	A	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	4.7	3.7	4.7
15	7/19/2011 10:19	LINTEL ROLL-UP DOOR	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Positive	5	3.8	5
16	7/19/2011 10:26	WINDOW LINTEL	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
17	7/19/2011 10:26	WINDOW LINTEL	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
18	7/19/2011 10:27	WINDOW LINTEL	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
19	7/19/2011 10:27	WINDOW FRAME	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
20	7/19/2011 10:27	WINDOW FRAME	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
21	7/19/2011 10:28	WINDOW FRAME	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
22	7/19/2011 10:28	WINDOW FRAME	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
23	7/19/2011 10:28	WINDOW SILL	CONCRETE	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
24	7/19/2011 10:29	WINDOW SILL	CONCRETE	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
25	7/19/2011 10:29	WINDOW SILL	CONCRETE	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
26	7/19/2011 10:33	WINDOW SILL	CONCRETE	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	0.1	0.1	< LOD
27	7/19/2011 10:33	WINDOW SILL	CONCRETE	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
28	7/19/2011 10:34	WINDOW FRAME	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	0.11	0.11	1
29	7/19/2011 10:34	DOOR	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	0.06	0.06	< LOD
30	7/19/2011 10:35	DOOR LINTEL	METAL	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
31	7/19/2011 10:40	CEILING PORCH CANOPY	WOOD	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
32	7/19/2011 10:40	CEILING PORCH CANOPY	WOOD	A	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
33	7/19/2011 10:41	CANOPY CEILING SUPPORT	WOOD	A	FAIR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
34	7/19/2011 10:42	WINDOW FRAME	METAL	A	FAIR	WHITE	HOBART ARMORY	EXTERIOR	Negative	0.5	0.5	< LOD
35	7/19/2011 10:42	WINDOW LINTEL	METAL	B	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
36	7/19/2011 10:43	WINDOW SILL	CONCRETE	B	INTACT	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
37	7/19/2011 10:43	WINDOW SILL	CONCRETE	B	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
38	7/19/2011 10:43	WINDOW SILL	CONCRETE	B	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
39	7/19/2011 10:44	WINDOW SILL	CONCRETE	B	POOR	WHITE	HOBART ARMORY	EXTERIOR	Null	0.09	0.09	1.1
40	7/19/2011 10:44	WINDOW FRAME	METAL	B	POOR	WHITE	HOBART ARMORY	EXTERIOR	Null	< LOD	< LOD	< LOD
41	7/19/2011 10:45	WINDOW LINTEL	METAL	B	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
42	7/19/2011 10:45	GUTTER	METAL	B	INTACT	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
43	7/19/2011 10:46	DOWNSPOUT	METAL	B	INTACT	BLACK	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
44	7/19/2011 10:46	WINDOW FRAME	METAL	B	INTACT	BLACK	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
45	7/19/2011 10:48	WINDOW FRAME	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD

Lead-Based Paint Inspection

Resulting No	Date	Component	Substrate	State	Color	Surface	Area	Robot	Results	PbC	PbL	PbK
46	7/19/2011 10:58	WINDOW FRAME	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
47	7/19/2011 10:58	WINDOW FRAME	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
48	7/19/2011 10:58	WINDOW LINTEL	METAL	C	INTACT	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
49	7/19/2011 10:58	WINDOW LINTEL	METAL	C	INTACT	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
50	7/19/2011 10:58	WINDOW LINTEL	METAL	C	INTACT	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
51	7/19/2011 10:58	WINDOW LINTEL	METAL	C	INTACT	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
52	7/19/2011 10:51	WINDOW SILL	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
53	7/19/2011 10:51	WINDOW SILL	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	0.08	0.08	< LOD
54	7/19/2011 10:51	WINDOW SILL	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	1.1
55	7/19/2011 10:52	WINDOW SILL	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
56	7/19/2011 10:52	WINDOW SILL	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
57	7/19/2011 10:53	DOOR LINTEL	METAL	C	FAIR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
58	7/19/2011 10:53	DOOR	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
59	7/19/2011 10:54	DOOR FRAME	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
60	7/19/2011 10:55	MODIFIED BOLLARD	METAL	C	POOR	YELLOW	HOBART ARMORY	EXTERIOR	Positive	5.8	2.3	5.8
61	7/19/2011 10:55	EDGE PROTECTOR	METAL	C	POOR	YELLOW	HOBART ARMORY	EXTERIOR	Positive	2.1	2.1	3.1
62	7/19/2011 10:55	EDGE PROTECTOR	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Positive	5.3	2.9	5.3
63	7/19/2011 10:55	LINTEL ROLL-UP DOOR	METAL	C	POOR	WHITE	HOBART ARMORY	EXTERIOR	Positive	3.1	3.8	3.1
64	7/19/2011 11:08						CALIBRATE		Positive	3.09	0.54	0.02
65	7/19/2011 11:08						CALIBRATE		Positive	1	1	< LOD
66	7/19/2011 11:08						CALIBRATE		Null	1	1	< LOD
67	7/19/2011 11:10						CALIBRATE		Null	1	1	< LOD
68	7/19/2011 11:13	DOOR	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	0.8	0.9	< LOD
69	7/19/2011 11:13	DOOR FRAME	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	1.2	1.2	1.1
70	7/19/2011 11:14	DOOR LINTEL	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	1.7	1.7	2.3
71	7/19/2011 11:14	WINDOW FRAME	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	3.3	3.3	4.8
72	7/19/2011 11:15	WINDOW LINTEL	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	2.7	2.7	< LOD
73	7/19/2011 11:15	WINDOW LINTEL	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	3.3	3.3	< LOD
74	7/19/2011 11:15	WINDOW LINTEL	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	6.6	5.7	6.6
75	7/19/2011 11:15	WINDOW LINTEL	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Null	1.7	1.7	< LOD
76	7/19/2011 11:16	WINDOW FRAME	METAL	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	2	2	< LOD
77	7/19/2011 11:17	WINDOW SILL	CONCRETE	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	0.06	0.06	< LOD
78	7/19/2011 11:17	WINDOW SILL	CONCRETE	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Null	0.08	0.08	< LOD
79	7/19/2011 11:17	WINDOW SILL	CONCRETE	C	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
80	7/19/2011 11:21	WINDOW SILL	CONCRETE	D	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
81	7/19/2011 11:22	WINDOW SILL	CONCRETE	D	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Negative	< LOD	< LOD	< LOD
82	7/19/2011 11:22	WINDOW FRAME	METAL	D	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	1.7	1.7	2.3
83	7/19/2011 11:23	WINDOW FRAME	METAL	D	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	3.1	3.1	< LOD
84	7/19/2011 11:23	WINDOW LINTEL	METAL	D	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	2.6	2.6	4.7
85	7/19/2011 11:23	WINDOW LINTEL	METAL	D	POOR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	7.2	3.9	7.2
86	7/19/2011 12:18	CEILING	KAYLO	D	FAIR	BEIGE	HOBART ARMORY	EXTERIOR	Positive	2	2	< LOD
87	7/19/2011 12:21	WINDOW FRAME	METAL	B	POOR	BROWN	HOBART ARMORY	ROOM 2	Positive	2	2	< LOD
88	7/19/2011 12:22	WINDOW FRAME	METAL	B	POOR	BROWN	HOBART ARMORY	ROOM 1	Positive	2	2	< LOD
89	7/19/2011 12:23	BEAM ABOVE WINDOWS	WOOD	B	POOR	BROWN	HOBART ARMORY	ROOM 1	Positive	4.8	4.8	5.2
90	7/19/2011 12:24	I-BEAM	METAL	B	POOR	GRAY	HOBART ARMORY	ROOM 1	Positive	5.8	5.6	< LOD
90	7/19/2011 12:32	ROOF SUPPORT	METAL	B	POOR	GRAY	HOBART ARMORY	ROOM 1	Positive	6.9	6.9	< LOD

ID	Date	Time	Location	Material	Color	Condition	Lead	Chromium	Remarks	Room	Pass/Fail	Level
92	7/19/2011	12:34	WINDOW FRAME	METAL	GRAY	POOR	< LOD	< LOD		ROOM 1	Positive	3.5 < LOD
93	7/19/2011	12:35	L-BEAM	METAL	GRAY	POOR	2.2	2.2		ROOM 1	Positive	2.2 < LOD
94	7/19/2011	12:35	DOOR	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	2.2 < LOD
95	7/19/2011	12:40	DOOR	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
96	7/19/2011	12:40	DOOR	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
97	7/19/2011	12:41	DOOR FRAME	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
98	7/19/2011	12:41	DOOR FRAME	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
99	7/19/2011	12:41	DOOR FRAME	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
100	7/19/2011	12:42	DOOR LINTEL	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
101	7/19/2011	12:42	DOOR LINTEL	METAL	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
102	7/19/2011	12:43	PASS THRU WINDOW FRAME	WOOD	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
103	7/19/2011	12:44	PASS THRU WINDOW FRAME	WOOD	BEIGE	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
104	7/19/2011	12:46	DOOR	METAL	GRAY	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
105	7/19/2011	12:46	DOOR LINTEL	METAL	RED	FAIR	13.1	9.1		ROOM 1	Positive	13.1 9.1
106	7/19/2011	12:46	DOOR FRAME	WOOD	RED	FAIR	6.9	6.9		ROOM 1	Positive	6.9 < LOD
107	7/19/2011	12:49	TRIM WALL	WOOD	BLACK	POOR	2.8	2.8		ROOM 2	Positive	2.8 < LOD
108	7/19/2011	12:49	TRIM WALL	WOOD	BLACK	POOR	4.5	4.5		ROOM 2	Positive	4.5 < LOD
109	7/19/2011	12:49	TRIM WALL	WOOD	GREEN	POOR	3.2	3.2		ROOM 2	Positive	3.2 < LOD
110	7/19/2011	12:50	BASEBOARD	WOOD	GREEN	POOR	4.4	4.4		ROOM 2	Positive	4.4 < LOD
111	7/19/2011	12:51	WALL	DRYWALL	BEIGE	POOR	2.4	2.4		ROOM 2	Positive	2.4 < LOD
112	7/19/2011	12:51	WALL	DRYWALL	BEIGE	POOR	4.8	4.8		ROOM 2	Positive	4.8 < LOD
113	7/19/2011	12:51	WALL	DRYWALL	RED	POOR	< LOD	< LOD		ROOM 2	Negative	< LOD < LOD
114	7/19/2011	12:52	WALL	DRYWALL	GREEN	POOR	3.6	3.6		ROOM 2	Positive	3.6 < LOD
115	7/19/2011	12:52	WALL	DRYWALL	GREEN	POOR	2.3	2.8		ROOM 2	Positive	2.3 2.8
116	7/19/2011	12:52	WALL	DRYWALL	GREEN	POOR	2.3	2.3		ROOM 2	Positive	2.3 < LOD
117	7/19/2011	12:53	WALL	DRYWALL	RED	POOR	< LOD	< LOD		ROOM 2	Negative	< LOD < LOD
118	7/19/2011	12:53	WALL	DRYWALL	BEIGE	POOR	3.3	3.3		ROOM 2	Positive	3.3 < LOD
119	7/19/2011	12:53	WALL	DRYWALL	GREEN	POOR	< LOD	< LOD		ROOM 2	Negative	< LOD < LOD
120	7/19/2011	12:55	WINDOW SILL	WOOD	GREEN	POOR	6.8	5.3		ROOM 2	Positive	6.8 5.3
121	7/19/2011	12:55	WINDOW SILL	WOOD	GRAY	POOR	4.5	4.5		ROOM 2	Positive	4.5 < LOD
122	7/19/2011	12:55	WINDOW TRIM	WOOD	GRAY	POOR	3.5	3.5		ROOM 2	Positive	3.5 < LOD
123	7/19/2011	12:55	WINDOW TRIM	WOOD	GRAY	POOR	3.8	3.8		ROOM 2	Positive	3.8 < LOD
124	7/19/2011	14:05					3	3		ROOM 2	Positive	3 < LOD
125	7/19/2011	14:07					2.96	0.52			Negative	0.9 0.9
126	7/19/2011	14:09					0.9	0.9			Positive	1 0.5
127	7/19/2011	14:10					0.9	0.9			Negative	0.9 0.5
128	7/19/2011	14:15	SHelf	WOOD	GREEN	POOR	< LOD	< LOD		ROOM 2	Negative	< LOD < LOD
129	7/19/2011	14:15	WALL	CONCRETE BLOCK	RED	FAIR	< LOD	< LOD		ROOM 2	Negative	< LOD < LOD
130	7/19/2011	14:17	WALL	CONCRETE BLOCK	RED	FAIR	< LOD	< LOD		ROOM 2	Null	< LOD < LOD
131	7/19/2011	14:20	FLOOR	CONCRETE	GRAY	POOR	< LOD	< LOD		ROOM 1	Negative	< LOD < LOD
132	7/19/2011	14:21	DOOR	WOOD	GRAY	POOR	0.1	0.1		ROOM 2	Negative	0.1 < LOD
133	7/19/2011	14:21	DOOR FRAME	WOOD	BLUE	POOR	< LOD	< LOD		ROOM 6	Negative	< LOD < LOD
134	7/19/2011	14:22	WALL	WOOD	BLUE	POOR	< LOD	< LOD		ROOM 6	Negative	< LOD < LOD
135	7/19/2011	14:22	WALL	WOOD	WHITE	FAIR	< LOD	< LOD		ROOM 6	Negative	< LOD < LOD

ID	Date	Time	Location	Material	Condition	Color	Room	Result	Level
137	7/19/2011	14:23	WALL	WOOD	FAIR	BLUE	ROOM 6	Positive	4.2 < LOD
138	7/19/2011	14:23	WALL	WOOD	FAIR	BLUE	ROOM 6	Positive	4 < LOD
139	7/19/2011	14:23	WALL	WOOD	FAIR	WHITE	ROOM 6	Positive	3.8 < LOD
140	7/19/2011	14:23	WALL	WOOD	FAIR	WHITE	ROOM 6	Positive	3.7 < LOD
141	7/19/2011	14:24	BASEBOARD	WOOD	FAIR	BLUE	ROOM 6	Positive	2.1 < LOD
142	7/19/2011	14:25	WINDOW SILL	WOOD	POOR	GRAY	ROOM 6	Positive	3.3 < LOD
143	7/19/2011	14:25	WINDOW SILL	WOOD	POOR	GRAY	ROOM 20	Positive	3 < LOD
144	7/19/2011	14:26	DOOR	WOOD	POOR	GREEN	ROOM 20	Positive	2.6 < LOD
145	7/19/2011	14:26	DOOR FRAME	WOOD	POOR	RED	ROOM 20	Positive	4.2 < LOD
146	7/19/2011	14:27	WALL TRIM	WOOD	POOR	RED	ROOM 20	Positive	2.9 < LOD
147	7/19/2011	14:28	WALL	WOOD	POOR	WHITE	ROOM 20	Positive	2.7 < LOD
148	7/19/2011	14:28	WALL	WOOD	POOR	WHITE	ROOM 20	Positive	2 < LOD
149	7/19/2011	14:28	WALL	WOOD	POOR	WHITE	ROOM 20	Positive	2.8 < LOD
150	7/19/2011	14:28	WALL	WOOD	POOR	WHITE	ROOM 20	Positive	2 < LOD
151	7/19/2011	14:29	WALL	WOOD	POOR	GRAY	ROOM 20	Positive	2 < LOD
152	7/19/2011	14:29	WALL	WOOD	POOR	GRAY	ROOM 20	Negative	< LOD < LOD
153	7/19/2011	14:30	SHELF	WOOD	POOR	GRAY	ROOM 20	Negative	< LOD < LOD
154	7/19/2011	14:32	BASEBOARD	WOOD	POOR	BEIGE	ROOM 20	Negative	< LOD < LOD
155	7/19/2011	14:33	FLOOR	CONCRETE	POOR	RED	ROOM 20	Positive	2.2 < LOD
156	7/19/2011	14:41	DOOR	METAL	FAIR	GRAY	ROOM 20	Negative	0.07 < LOD
157	7/19/2011	14:44	DOOR FRAME	METAL	FAIR	BEIGE	ROOM 3	Negative	< LOD < LOD
158	7/19/2011	14:45	DOOR FRAME	METAL	FAIR	BEIGE	ROOM 3	Negative	< LOD < LOD
159	7/19/2011	14:46	WINDOW FRAME	METAL	FAIR	BEIGE	ROOM 3	Negative	< LOD < LOD
160	7/19/2011	14:46	WALL	METAL	FAIR	WHITE	ROOM 3	Negative	< LOD < LOD
161	7/19/2011	14:46	WALL	METAL	POOR	WHITE	ROOM 3	Negative	< LOD < LOD
162	7/19/2011	14:47	WALL	CONCRETE BLOCK	INTACT	WHITE	ROOM 3	Negative	0.14 < LOD
163	7/19/2011	14:47	WALL	CONCRETE BLOCK	INTACT	WHITE	ROOM 3	Negative	0.8 < LOD
164	7/19/2011	14:48	WALL	CONCRETE BLOCK	INTACT	WHITE	ROOM 3	Negative	0.3 < LOD
165	7/19/2011	14:49	PIPE	BRICK	INTACT	WHITE	ROOM 3	Negative	0.08 < LOD
166	7/19/2011	14:51	CEILING	METAL	FAIR	WHITE	ROOM 3	Positive	1.4 < LOD
167	7/19/2011	14:53	DOOR	WOOD	INTACT	WHITE	ROOM 3	Negative	< LOD < LOD
168	7/19/2011	14:54	DOOR FRAME	METAL	INTACT	WHITE	ROOM 3	Negative	0.6 < LOD
169	7/19/2011	14:54	DOOR LINTEL	METAL	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
170	7/19/2011	14:55	WINDOW LINTEL	METAL	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
171	7/19/2011	14:55	WINDOW FRAME	METAL	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
172	7/19/2011	14:55	STALL	METAL	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
173	7/19/2011	14:56	WALL	METAL	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
174	7/19/2011	14:56	WALL	BRICK	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
175	7/19/2011	14:57	WALL	BRICK	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
176	7/19/2011	14:57	WALL	BRICK	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
177	7/19/2011	14:58	CEILING	WOOD	INTACT	WHITE	ROOM 5	Negative	0.08 < LOD
178	7/19/2011	15:00	CEILING	WOOD	INTACT	WHITE	ROOM 5	Negative	< LOD < LOD
179	7/19/2011	15:00	DOOR	METAL	INTACT	WHITE	ROOM 7	Negative	< LOD < LOD
180	7/19/2011	15:01	DOOR FRAME	METAL	INTACT	BEIGE	ROOM 7	Negative	< LOD < LOD

Handing No	Date	Component	Substrate	Side	Condition	Color	Site	Room	Result	PbC	PbL	PbK
181	7/19/2011 15:01	WINDOW	METAL	C	FAIR	WHITE	HOBART ARMORY	ROOM 7	Negative	< LOD	< LOD	< LOD
182	7/19/2011 15:02	WINDOW LINTEL	METAL	C	FAIR	WHITE	HOBART ARMORY	ROOM 7	Negative	< LOD	< LOD	< LOD
183	7/19/2011 15:03	WINDOW SILL	BRICK	C	FAIR	WHITE	HOBART ARMORY	ROOM 7	Null	< LOD	< LOD	< LOD
184	7/19/2011 15:03	WINDOW SILL	BRICK	C	FAIR	WHITE	HOBART ARMORY	ROOM 7	Negative	0.03	0.03	< LOD
185	7/19/2011 15:03	WALL	BRICK	B	INTACT	WHITE	HOBART ARMORY	ROOM 7	Negative	0.01	0.04	< LOD
186	7/19/2011 15:04	WALL	BRICK	B	INTACT	WHITE	HOBART ARMORY	ROOM 7	Negative	0.05	0.05	< LOD
187	7/19/2011 15:04	WALL	BRICK	A	INTACT	WHITE	HOBART ARMORY	ROOM 7	Negative	0.07	0.07	< LOD
188	7/19/2011 15:04	WALL	BRICK	D	INTACT	WHITE	HOBART ARMORY	ROOM 7	Negative	< LOD	< LOD	< LOD
189	7/19/2011 15:05	DOOR	METAL	B	FAIR	WHITE	HOBART ARMORY	ROOM 7	Negative	3.03	0.56	0
190	7/19/2011 15:11						CALIBRATE		Negative	0.9	0.9	0.7
192	7/19/2011 15:13						CALIBRATE		Positive	1	1	0.5
193	7/19/2011 15:15						CALIBRATE		Negative	0.9	0.9	1.1
194	7/19/2011 15:16	DOOR	METAL	A	INTACT	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
195	7/19/2011 15:17	DOOR FRAME	METAL	A	INTACT	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
196	7/19/2011 15:17	DOOR FRAME	WOOD	D	POOR	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
197	7/19/2011 15:18	CEILING	WOOD	D	INTACT	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
198	7/19/2011 15:18	WALL	CONCRETE BLOCK	D	INTACT	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
199	7/19/2011 15:19	WALL	CONCRETE BLOCK	A	INTACT	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
200	7/19/2011 15:19	WALL	CONCRETE BLOCK	C	INTACT	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
201	7/19/2011 15:19	WALL	BRICK	B	INTACT	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
202	7/19/2011 15:20	WALL	DRYWALL	A	FAIR	BEIGE	HOBART ARMORY	ROOM 4	Negative	< LOD	< LOD	< LOD
203	7/19/2011 15:21	WALL	DRYWALL	B	FAIR	BEIGE	HOBART ARMORY	ROOM 8	Negative	< LOD	< LOD	< LOD
204	7/19/2011 15:21	WALL	DRYWALL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 8	Negative	< LOD	< LOD	< LOD
205	7/19/2011 15:22	WALL	DRYWALL	D	FAIR	BEIGE	HOBART ARMORY	ROOM 8	Negative	< LOD	< LOD	< LOD
206	7/19/2011 15:22	DOOR	METAL	A	FAIR	BEIGE	HOBART ARMORY	ROOM 8	Negative	< LOD	< LOD	< LOD
207	7/19/2011 15:23	DOOR FRAME	METAL	A	FAIR	BEIGE	HOBART ARMORY	ROOM 8	Negative	< LOD	< LOD	< LOD
208	7/19/2011 15:23	WINDOW FRAME	METAL	A	FAIR	BEIGE	HOBART ARMORY	ROOM 8	Negative	< LOD	< LOD	< LOD
209	7/19/2011 15:25	CEILING SUPPORT	WOOD	A	FAIR	RED	HOBART ARMORY	ROOM 8	Negative	0.28	0.29	< LOD
210	7/19/2011 15:25	CEILING	WOOD	A	INTACT	RED	HOBART ARMORY	ROOM 8	Negative	0.22	0.22	< LOD
211	7/19/2011 15:27	DOOR	WOOD	A	INTACT	WHITE	HOBART ARMORY	ROOM 8	Negative	< LOD	< LOD	< LOD
212	7/19/2011 15:27	DOOR FRAME	WOOD	D	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Negative	< LOD	< LOD	< LOD
213	7/19/2011 15:28	WALL	WOOD	D	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Negative	< LOD	< LOD	< LOD
214	7/19/2011 15:28	WALL	CONCRETE BLOCK	A	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Null	< LOD	< LOD	< LOD
215	7/19/2011 15:29	WALL	CONCRETE BLOCK	A	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Negative	< LOD	< LOD	< LOD
216	7/19/2011 15:29	WALL	CONCRETE BLOCK	C	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Negative	< LOD	< LOD	< LOD
217	7/19/2011 15:28	WALL	DRYWALL	D	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Null	< LOD	< LOD	< LOD
218	7/19/2011 15:28	WALL	DRYWALL	D	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Negative	< LOD	< LOD	< LOD
219	7/19/2011 15:33	WALL	DRYWALL	B	INTACT	BEIGE	HOBART ARMORY	ROOM 19	Negative	< LOD	< LOD	< LOD
220	7/19/2011 15:33	WALL	DRYWALL	D	INTACT	BEIGE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
221	7/19/2011 15:33	WALL	CONCRETE BLOCK	A	INTACT	BEIGE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
222	7/19/2011 15:34	WALL	CONCRETE BLOCK	B	INTACT	BEIGE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
223	7/19/2011 15:35	WALL	CONCRETE BLOCK	C	INTACT	BEIGE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
224	7/19/2011 15:35	CEILING	BRICK	C	INTACT	BLUE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
225	7/19/2011 15:35	CEILING	WOOD	C	INTACT	BLUE	HOBART ARMORY	ROOM 18	Null	0.11	0.11	< LOD
225	7/19/2011 15:35	CEILING	WOOD	C	INTACT	BLUE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD

Priority #	Date	Time	Component	Substrate	SLC	Condition	Color	Site	Room	Response	PbC	PbL	PbX
226	7/19/2011	15:36	DOOR	METAL	A	INTACT	WHITE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
227	7/19/2011	15:37	DOOR FRAME	METAL	A	INTACT	BEIGE	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
228	7/19/2011	15:38	DOOR FRAME	METAL	D	FAIR	BEIGE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
229	7/19/2011	15:39	DOOR FRAME	METAL	D	FAIR	BEIGE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
230	7/19/2011	15:39	DOOR	METAL	D	FAIR	BEIGE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
231	7/19/2011	15:39	DOOR	METAL	D	FAIR	BEIGE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
232	7/19/2011	15:41	CEILING	WOOD	D	INTACT	GREEN	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
233	7/19/2011	15:42	WINDOW FRAME	METAL	A	POOR	GRAY	HOBART ARMORY	ROOM 9/10	Negative	0.5	< LOD	< LOD
234	7/19/2011	15:43	WINDOW SILL	BRICK	A	INTACT	WHITE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
235	7/19/2011	15:43	WALL	CONCRETE BLOCK	A	INTACT	WHITE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
236	7/19/2011	15:43	WALL	CONCRETE BLOCK	B	INTACT	WHITE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
237	7/19/2011	15:44	WALL	CONCRETE BLOCK	A	INTACT	WHITE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
238	7/19/2011	15:44	WALL	CONCRETE BLOCK	B	INTACT	WHITE	HOBART ARMORY	ROOM 9/10	Negative	< LOD	< LOD	< LOD
239	7/19/2011	15:45	WALL	CONCRETE BLOCK	C	INTACT	WHITE	HOBART ARMORY	ROOM 9/10	Negative	0.19	0.19	< LOD
240	7/19/2011	15:45	WALL	CONCRETE BLOCK	D	INTACT	WHITE	HOBART ARMORY	ROOM 9/10	Negative	0.12	0.12	< LOD
241	7/19/2011	15:47	DOOR	METAL	A	POOR	BEIGE	HOBART ARMORY	ROOM 11	Negative	< LOD	< LOD	< LOD
242	7/19/2011	15:47	DOOR FRAME	METAL	A	POOR	BEIGE	HOBART ARMORY	ROOM 11	Negative	< LOD	< LOD	< LOD
243	7/19/2011	15:48	DOOR FRAME	METAL	C	POOR	BEIGE	HOBART ARMORY	ROOM 11	Negative	< LOD	< LOD	< LOD
244	7/19/2011	15:48	DOOR	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 11	Negative	< LOD	< LOD	< LOD
245	7/19/2011	15:50	DOOR	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 11	Negative	< LOD	< LOD	< LOD
246	7/19/2011	15:50	DOOR FRAME	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 11	Negative	< LOD	< LOD	< LOD
247	7/19/2011	15:51	WINDOW FRAME	WOOD	C	FAIR	BEIGE	HOBART ARMORY	ROOM 13	Negative	< LOD	< LOD	< LOD
248	7/19/2011	15:52	WINDOW SILL	WOOD	C	INTACT	WHITE	HOBART ARMORY	ROOM 13	Negative	< LOD	< LOD	< LOD
249	7/19/2011	15:52	WINDOW FRAME	WOOD	B	INTACT	PINK	HOBART ARMORY	ROOM 13	Negative	< LOD	< LOD	< LOD
250	7/19/2011	15:53	DOOR	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 14	Negative	< LOD	< LOD	< LOD
251	7/19/2011	15:53	DOOR FRAME	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 14	Negative	< LOD	< LOD	< LOD
252	7/19/2011	15:56											
253	7/19/2011	15:57									2.87	0.59	0
254	7/19/2011	15:58										0.9	0.9
255	7/19/2011	15:58										0.9	1.2
256	7/19/2011	16:02	DOOR	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 17	Positive	1	1	1.1
257	7/19/2011	16:02	DOOR FRAME	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 17	Negative	< LOD	< LOD	< LOD
258	7/19/2011	16:05	DOOR FRAME	METAL	D	FAIR	GRAY	HOBART ARMORY	ROOM 17	Negative	< LOD	< LOD	< LOD
259	7/19/2011	16:05	DOOR FRAME	METAL	D	FAIR	GRAY	HOBART ARMORY	ROOM 18	Negative	< LOD	< LOD	< LOD
260	7/19/2011	16:05	DOOR	METAL	D	FAIR	GRAY	HOBART ARMORY	ROOM 15	Negative	< LOD	< LOD	< LOD
261	7/19/2011	16:06	CEILING	CONCRETE	D	FAIR	WHITE	HOBART ARMORY	ROOM 15	Negative	< LOD	< LOD	< LOD
262	7/19/2011	16:08	WALL	BRICK	A	FAIR	WHITE	HOBART ARMORY	ROOM 15	Negative	< LOD	< LOD	< LOD
263	7/19/2011	16:07	WALL	BRICK	B	FAIR	WHITE	HOBART ARMORY	ROOM 15	Negative	< LOD	< LOD	< LOD
264	7/19/2011	16:07	WALL	BRICK	C	FAIR	WHITE	HOBART ARMORY	ROOM 15	Negative	< LOD	< LOD	< LOD
265	7/19/2011	16:07	WALL	BRICK	D	FAIR	WHITE	HOBART ARMORY	ROOM 15	Negative	< LOD	< LOD	< LOD
266	7/19/2011	16:08	FLOOR	CONCRETE	D	POOR	GREEN	HOBART ARMORY	ROOM 15	Negative	< LOD	< LOD	< LOD
267	7/19/2011	16:09	WALL	CONCRETE BLOCK	C	INTACT	BEIGE	HOBART ARMORY	ROOM 16	Negative	0.11	0.11	< LOD
268	7/19/2011	16:09	WALL	CONCRETE BLOCK	A	INTACT	BEIGE	HOBART ARMORY	ROOM 16	Negative	< LOD	< LOD	< LOD
269	7/19/2011	16:10	WALL	BRICK	B	INTACT	BEIGE	HOBART ARMORY	ROOM 16	Negative	< LOD	< LOD	< LOD
270	7/19/2011	16:11	WALL	BRICK	D	INTACT	BEIGE	HOBART ARMORY	ROOM 16	Negative	< LOD	< LOD	< LOD

Hobart Armory
217 North Lincoln Street

Lead-Based Paint Inspection

Inspector: Marshall Branscum
July 19, 2011

Reading No	Date	Time	Component	Substrate	Std	Condition	Color	Site	Room	Fls. #/No	Pb/C	Pb/L	Pb/K
271	7/19/2011	16:12	WINDOW SILL	BRICK	A	INTACT	BEIGE	HOBART ARMORY	ROOM 16	Negative	< LOD	< LOD	< LOD
272	7/19/2011	16:12	WINDOW FRAME	METAL	A	POOR	BEIGE	HOBART ARMORY	ROOM 16	Negative	< LOD	< LOD	< LOD
273	7/19/2011	16:12	DOOR	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 16	Negative	< LOD	< LOD	< LOD
274	7/19/2011	16:13	DOOR FRAME	METAL	C	FAIR	BEIGE	HOBART ARMORY	ROOM 16	Negative	< LOD	< LOD	< LOD
275	7/19/2011	16:14	WALL	BRICK	D	INTACT	WHITE	HOBART ARMORY	ROOM 3	Negative	0.5	0.5	0.9
276	7/19/2011	16:15	WALL	BRICK	D	INTACT	WHITE	HOBART ARMORY	ROOM 3	Negative	0.07	0.07	< LOD
277	7/19/2011	16:17						CALIBRATE		Positive	1	1	1
278	7/19/2011	16:17						CALIBRATE		Negative	3.9	0.9	1.2
279	7/19/2011	16:18						CALIBRATE		Negative	0.9	0.9	0.9

APPENDIX E

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLP 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLI and XLP series:

XLI 300A, XLI 301A, XLI 302A and XLI 303A.

XLP 300A, XLP 301A, XLP 302A and XLP 303A.

XLI 700A, XLI 701A, XLI 702A and XLI 703A.

XLP 700A, XLP 701A, XLP 702A, and XLP 703A.

Note: The XLI and XLP versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (Inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-In-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-In-Paint (K+L) variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 33.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

APPENDIX F

Department of Environmental Quality

This is to Certify That

ENERCON SVC INC

has met the specifications of the Oklahoma Lead-Based Paint Management Act and is certified as a Lead-Based Paint

FIRM

Certification #: OKFIRM11152

This certificate is valid from the date of issuance and expires, as provided by law.
Issued on: 4/1/2011 Expires on: 5/31/2012


Division Director
Air Quality Division




Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

MARSHALL BRANSCUM

INSPECTOR

Certification #: OKNSR13415

Issued on: 4/1/2011

Expires on: 3/31/2012

A. Todd

Division Director
Air Quality Division



Randall Z. Miller

Environmental Programs Manager
Air Quality Division

Department of Environmental Quality

Due to the Gravity of the:

EMMETT MUENKER

has met the specifications of the Ozone-Depleting-Substance Management Act
and is certified as a Lead-Based Paint

INSPECTOR/RISK ASSESSOR

Certification #: OKRASR11260

This certificate is valid from the date of issuance and expires as prescribed by law.
Issued on: 4/1/2011 Expires on: 3/31/2012


Division Director
Air Quality Division




Environmental Programs Manager
Air Quality Division



Excellence—Every project. Every day.

ASBESTOS SURVEY REPORT

NATIONAL GUARD ARMORY
217 NORTH LINCOLN STREET
HOBART, OKLAHOMA 73651

Enercon Project Number – ENMISC2393

August 8, 2011

Prepared for:

Oklahoma Department of Environmental Quality
Land Protection Division
PO Box 1677
Oklahoma City, Oklahoma 73101-1677
Attention: Mr. Dustin Davidson

Prepared By:

Enercon Services, Inc.
6525 North Meridian, Suite 400
Oklahoma City, Oklahoma 73116

Inspected By:

A handwritten signature in black ink, appearing to read 'Richard D. Belcher', written over a horizontal line.

Richard D. Belcher
AHERA Asbestos Inspector OK-159310

Reviewed By:

A handwritten signature in black ink, appearing to read 'Emmett W. Muenker', written over a horizontal line.

Emmett W. Muenker
AHERA Asbestos Management Planner OK-MP130435

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- Table 1 Summary of Asbestos Containing Building Materials
- Table 2 Bulk Material Samples & Laboratory Analytical Results

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- A - Oklahoma Inspector and Management Planner Licenses
- B - Site Layouts with Sample and Asbestos Locations
- C - Laboratory Reports of Analyses/Chain of Custody

ASBESTOS SURVEY REPORT

NATIONAL GUARD ARMORY
217 NORTH LINCOLN STREET
HOBART, OKLAHOMA 73651

Executive Summary

An asbestos survey of the National Guard Armory, 715 North Lincoln Street, Hobart, Oklahoma was conducted on July 19, 2011. The armory consisted of a single building with a large drill room, an annex west of the drill room, plus an attached office wing located south of the drill room. During the survey, a total of 28 bulk samples were collected from 11 homogeneous areas. A summary of the asbestos-containing building materials (ACBMs) is provided below.

Summary of Asbestos-Containing Building Materials

MATERIAL CATEGORY	MATERIAL DESCRIPTION	TOTAL APPROXIMATE AMOUNT
FRIABLE	Domestic Water Line & Fitting Insulation Drywall Joint Compound	270 LF 800 SF
CATEGORY I NON-FRIABLE	Black Mastic Beneath Floor Tiles	430 SF
CATEGORY II NON-FRIABLE	Corrugated Transite® Roof	5,400 SF

SF=Square Feet; LF=Linear Feet; EA=Each

Recommended actions for planned renovation:

Prepare specifications for abatement of friable and non-friable asbestos materials that would be disturbed during renovation activities; solicit bids; award contract and complete abatement.

Recommended actions prior to planned demolition:

Prepare specifications for abatement of all friable asbestos materials; solicit bids; award contract and complete abatement.

Recommended actions for continued operation without removal of all asbestos in the building:

Prepare and implement an Asbestos Management Plan to manage the asbestos in place. This is to include Asbestos Awareness Training for maintenance and custodial personnel.

ASBESTOS SURVEY REPORT

**NATIONAL GUARD ARMORY
217 NORTH LINCOLN STREET
HOBART, OKLAHOMA 73651**

1.0 INTRODUCTION

An asbestos survey of the National Guard Armory, 715 North Lincoln Street, Hobart, Oklahoma was conducted on July 19, 2011. The armory consisted of a single building with a large drill room, an annex west of the drill room, plus an attached office wing located south of the drill room. The inspection was performed by Richard Belcher, AHERA Inspector OK-159310 and Marshall Branscum, AHERA Inspector OK-159162. Appendix A contains a copy of their Inspector Licenses.

The purpose of the asbestos survey was to locate, identify, and quantify asbestos containing building materials (ACBMs) present in the facility. The asbestos survey was requested by the Oklahoma Department of Environmental Quality.

2.0 SURVEY PROCEDURES

The survey consisted of visual examination of building components and insulating materials to identify those suspected to contain asbestos. Asbestos-containing materials are divided into three basic groups: Thermal System Insulation (TSI), Surfacing Materials (SM) and Miscellaneous Materials (MM). TSI consists of insulating materials, mastics or sealants used to reduce heat loss or gain on mechanical systems such as piping, ducts, air handlers, boilers, flues, heat exchangers, etc. SM includes materials applied to surfaces other than mechanical systems for purposes such as fireproofing, acoustical insulation and aesthetic finishes. MM are all other materials not included in the other two categories, and include materials such as floor tiles, adhesives, gaskets, caulking compounds and asbestos-cement piping/panels (Transite®).

Non-friable ACBM is categorized as either Category I or Category II non-friable material. Category I non-friable ACBM includes packings, gaskets, resilient floor coverings, and asphalt roofing products. Category II non-friable ACBM includes any other non-friable material.

The protocols outlined in the Asbestos Hazard Emergency Response Act (AHERA) were used for this survey. The survey included all building materials that were suspected to contain asbestos, with the exception of the roofing components. Samples were analyzed by QuanTEM Laboratories, an analytical laboratory accredited under the National Voluntary Laboratory Accreditation Program (NVLAP). The analytical method used was Polarized Light Microscopy (PLM) with dispersion staining, as prescribed by the AHERA regulation. It is a method for positive identification of asbestos fibers. Materials determined to contain more than one percent asbestos by laboratory analysis are considered asbestos-containing materials.

The numbering system used for sample identification consisted of three separate components, a facility identifier, a homogeneous area (materials appearing alike in their color, texture and function) number and a sample number.

Rooms in the building were not all identified with room numbers, therefore an arbitrary number was assigned to each room for referencing the locations of samples and asbestos-containing materials identified during the survey. These arbitrary room numbers are used throughout this report and the room locations are shown on the building layouts in Appendix B.

3.0 SURVEY RESULTS

A total of 28 bulk samples were collected from 11 homogeneous areas during the survey with one homogeneous area of Presumed Asbestos-Containing Material (PACM). Appendix B contains site layouts with sample and asbestos locations. Appendix C contains the laboratory reports of analyses/chains of custody.

A summary of asbestos containing building materials, including categorization and quantities, is presented in Table 1. Table 2 provides a summary of the bulk material samples collected, the general location of the materials sampled, the approximate quantity of asbestos-containing materials present in each homogeneous area and the laboratory analytical results.

Table 1
Summary of Asbestos Containing Building Materials

MATERIAL CATEGORY	MATERIAL DESCRIPTION	TOTAL APPROXIMATE AMOUNT
FRIABLE	Domestic Water Line & Fitting Insulation Drywall Joint Compound	270 LF 800 SF
CATEGORY I NON-FRIABLE	Black Mastic Beneath Floor Tiles	430 SF
CATEGORY II NON-FRIABLE	Corrugated Transite® Roof	5,400 SF

SF=Square Feet; LF=Linear Feet

Table 2
Bulk Material Samples & Laboratory Analytical Results

SAMPLE ID	DESCRIPTION & LOCATION	APPROX. AMOUNT	ASBESTOS TYPE/ PERCENT
HA-01-01,02	Pressed Wood	NQ	None Detected
HA-02-01,02	Gypsum Board	NQ	None Detected
HA-03-01,02	Window Caulk	NQ	None Detected
HA-04-01,02,03	Kaylo Roof Deck	NQ	None Detected
HA-05-01,02,03	Domestic Water Pipe Fitting Insulation	NQ	10-20% Chrysotile, 15-20% Amosite
HA-06-01,02,03	Domestic Cold Water Line Insulation	200 LF	15-20% Chrysotile
HA-07-01,02,03	Domestic Hot Water Line Insulation	70 LF	10-15% Chrysotile, 10% Amosite
HA-08-01,02	Tan Carpet Adhesive	NQ	None Detected
HA-09-01,02,03	White Wall Texture	NQ	None Detected
HA-10-01,02,03	Drywall Joint Compound	800 SF	3-4% Chrysotile
HA-11-01,02	Gray Floor Tiles	-	None Detected
HA-11-01,02	Black Adhesive Beneath Floor Tiles	430 SF	4-5% Chrysotile
HA-12-PACM	Corrugated Transite® Roof	5,400 SF	30%-40% Chrysotile

SF=Square Feet; LF=Linear Feet; EA = Each; NQ=Not Quantified; CS=Confirmation Sample

4.0 CONCLUSIONS & RECOMMENDATIONS

The asbestos-containing building materials present consisted of both friable and non-friable materials. The locations of these materials are shown on the layout in Appendix B.

Friable Asbestos-Containing Materials:

- Domestic Hot and Cold Water Line and Fitting Insulation: Approximately 270 LF of piping insulation in good condition was present above ceilings and inside walls/chases.
- Drywall Joint Compound: Approximately 800 square feet of walls in Rooms 8 and 19 have asbestos-containing joint compound.

Non-friable Asbestos-Containing Materials:

- Black Floor Tile Mastic: Approximately 430 SF of asbestos-containing black mastic was present beneath gray floor tiles in Rooms 13, 14 and 17.
- Corrugated Transite® Roof: The roof of the drill room consists of approximately 5,400 SF of corrugated Transite® roof panels.

Recommendations for Friable Asbestos-containing Materials: The following recommendations are made for addressing friable materials. Disturbance of these materials is regulated by the Oklahoma Department of Labor.

1. Planned renovation and maintenance activities that could disturb friable asbestos: Prepare specifications for abatement that would be disturbed during renovation activities; solicit bids; award contract and complete abatement.
2. Planned demolition: Prepare specifications for abatement of all friable asbestos materials; solicit bids; award contract and complete abatement.
3. Continued operation without abatement of friable asbestos: Prepare and implement an Asbestos Management Plan to manage the asbestos in place. This is to include Asbestos Awareness Training for maintenance and custodial personnel.

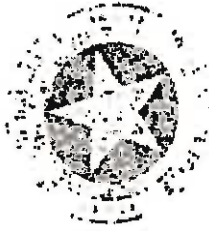
Recommendations for Non-friable Asbestos-containing Materials: The only non-friable asbestos present was black floor tile mastic located beneath non-asbestos floor tiles and the corrugated Transite® roof over the drill room. These materials containing asbestos are not regulated unless they are disturbed in a manner that renders them friable; however, if they are to be removed, removal must be done by workers who are properly trained to remove them. Removal of the floor tiles will disturb the mastic; therefore, both the tiles and mastic must be removed by properly trained personnel. The following actions are recommended for addressing non-friable materials:

1. Planned renovation: Prepare specifications for abatement of non-friable asbestos materials that would be disturbed during renovation activities; solicit bids; award contract and complete abatement.
2. Planned demolition: Non-friable materials present may remain in place during demolition activities and may be disposed as ordinary demolition/construction waste.
3. Continued operation without abatement of remaining asbestos: Prepare and implement an Asbestos Management Plan to manage the asbestos in place. This is to include Asbestos Awareness Training for maintenance and custodial personnel.

APPENDIX A

WYOMING DEPARTMENT OF LABOR

FEE: \$25.00



Richard Belcher

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. **OK159310**.

Lloyd L. Fields

LLOYD L. FIELDS
Commissioner of Labor

September 07, 2010

Date of Issuance

EXPIRES: September 01, 2011

Oklahoma Department of Labor

FEE: \$500.00



Emmett Muenker

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

ASBESTOS 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-MFP130435.

Mark Costello

MARK COSTELLO
Commissioner of Labor

March 14, 2011

Date of Issuance

EXPIRES: March 04, 2012

APPENDIX B



Legend:

 = Transite Panels @ 5.400 SF

Scale 1/16"=1'

Oklahoma Department of Environmental Quality
 National Guard Armory
 217 N. Lincoln Street
 Hobart, OK



FIGURE 2
Transite Panel Locations

Project No: ENMISC2393

APPENDIX C



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

Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 197791
 Account Number: A845
 Date Received: 07/20/2011
 Received By: CeCelia Van Bek
 Date Analyzed: 07/20/2011
 Analyzed By: Gayle Ooten
 Methodology: EPA/600/R-93/116

Client: Enercon Services, Inc.
 6525 N. Meridian, Suite 400
 Oklahoma City, OK 73116
 Project: Hobart Armory REVISED
 Project Location: 217 N. Lincoln
 Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	HA-1-01	Homogeneous	Brown Fiberboard	Asbestos Not Present	Cellulose 95	Binder
002	HA-1-02	Homogeneous	Brown Fiberboard	Asbestos Not Present	Cellulose 95	Binder
003	HA-2-01	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
004	HA-2-02	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 8	Gypsum
005	HA-3-01	Homogeneous	Gray Window Glazing	Asbestos Not Present	NA	CaCO3 Binder
006	HA-3-02	Homogeneous	Gray Window Glazing	Asbestos Present Chrysotile <1	NA	CaCO3 Binder

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

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 756-2058

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791	Client: Enercon Services, Inc.
Account Number: A845	6525 N. Meridian, Suite 400
	Oklahoma City, OK 73116
Date Received: 07/20/2011	
Received By: CeCelia Van Eck	
Date Analyzed: 07/20/2011	Project: Hobart Armory REVISED
Analyzed By: Gayle Ooten	Project Location: 217 N. Lincoln
Methodology: EPA/600/R-93/116	Project Number: N/A

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
007	HA-4-01	Homogeneous	White Ceiling	Asbestos Not Present	Cellulose 10	Gypsum Perlite Binder
008	HA-4-02	Homogeneous	White Ceiling	Asbestos Not Present	Cellulose 10	Gypsum Perlite Binder
009	HA-4-03	Homogeneous	White Ceiling	Asbestos Not Present	Cellulose 12	Gypsum Perlite
010	HA-5-01	Homogeneous	Gray Pipe Fitting	Asbestos Present Chrysotile 20 Amosite 20	Glass Fiber 15	CaCO3 Binder
011	HA-5-02	Homogeneous	Cream Pipe Insulation	Asbestos Present Amosite 15	NA	CaCO3 Binder
012	HA-5-03	Homogeneous	Gray Pipe Insulation	Asbestos Present Chrysotile 10 Amosite 15	Glass Fiber 10	CaCO3 Binder

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

QuantEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 756-7272 / Fax: (405) 756-2083

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791	Client: Enercon Services, Inc.
Account Number: A845	6525 N. Meridian, Suite 400
	Oklahoma City, OK 73116
Date Received: 07/20/2011	
Received By: CeCelia Van Eck	
Date Analyzed: 07/20/2011	Project: Hobart Armory REVISED
Analyzed By: Gayle Ooten	Project Location: 217 N. Lincoln
Methodology: EPA/600/R-93/116	Project Number: N/A

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
013	HA-6-01	Layered	Brown/White Pipe Insulation	Asbestos Not Present	Cellulose 85	Paint Binder
013a		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 20	Cellulose <1	Tar Binder
014	HA-6-02	Layered	Brown/White Pipe Insulation	Asbestos Not Present	Cellulose 85	Paint Binder
014a		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 15	Cellulose 5	Tar Binder
015	HA-6-03	Layered	Brown/White Pipe Insulation	Asbestos Not Present	Cellulose 85	Paint Binder
015a		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 15	Cellulose 10	Tar Binder

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

QuantEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-8033

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791	Client:	Enercon Services, Inc.
Account Number: A845		6525 N. Meridian, Suite 400
		Oklahoma City, OK 73116
Date Received: 07/20/2011	Project:	Hobart Amnory REVISED
Received By: CeCelia Van Eck	Project Location:	217 N. Lincoln
Date Analyzed: 07/20/2011	Project Number:	N/A
Analyzed By: Gayle Ootun		
Methodology: EPA/600/R-93/116		

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
016	HA-7-01	Layered	White Pipe Wrap	Asbestos Present Chrysotile 2 Amosite 10	Cellulose 3 Glass Fiber 20	CaCO3 Binder
016a		Layered	Brown Pipe Insulation	Asbestos Not Present	Cellulose 95	Binder
016b		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 15	Cellulose 8	Tar Binder
017	HA-7-02	Homogeneous	White Pipe Insulation	Asbestos Present Chrysotile 8 Amosite 10	NA	CaCO3 Binder
018	HA-7-03	Homogeneous	White Pipe Insulation	Asbestos Present Chrysotile 10 Amosite 10	NA	CaCO3 Binder
019	HA-8-01	Homogeneous	Tan Carpet Mastic	Asbestos Not Present	NA	Glue Binder

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

QuantEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



2038 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791	Client: Enercon Services, Inc.
Account Number: A845	6525 N. Meridian, Suite 400
Date Received: 07/20/2011	Oklahoma City, OK 73116
Received By: CeCelia Van Eck	
Date Analyzed: 07/20/2011	Project: Hobart Armory REVISED
Analyzed By: Gayle Ooten	Project Location: 217 N. Lincoln
Methodology: EPA/600/R-93/116	Project Number: N/A

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
020	HA-8-02	Homogeneous	Tan Carpet Mastic	Asbestos Not Present	NA	Glass Binder
021	HA-9-01	Homogeneous	White Wall Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
022	HA-9-02	Homogeneous	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
023	HA-9-03	Homogeneous	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
024	HA-10-01	Homogeneous	Tan Joint Compound	Asbestos Present Chrysotile 4	NA	CaCO3 Binder
025	HA-10-02	Homogeneous	Tan Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3 Binder

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

QuantEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 191959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.

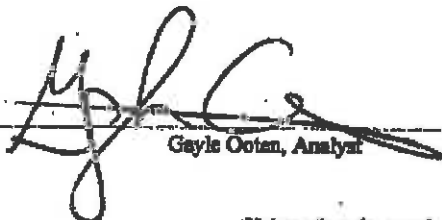


2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2088

Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 197791	Client:	Enron Services, Inc.
Account Number: A845		6525 N. Meridian, Suite 400
		Oklahoma City, OK 73116
Date Received: 07/20/2011		
Received By: CeCelia Van Eck	Project:	Hobart Amory REVISIED
Date Analyzed: 07/20/2011	Project Location:	217 N. Lincoln
Analyzed By: Gayle Ooten	Project Number:	N/A
Methodology: EPA/600/R-93/116		

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
026	HA-10-03	Homogeneous	Tan Joint Compound	Asbestos Present Chrysotile 4	NA	CaCO3 Binder
027	HA-11-01	Layered	White Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
027a		Layered	Black Mastic	Asbestos Present Chrysotile 5	Cellulose	<1 Tar
028	HA-11-02	Layered	White Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
028a		Layered	Black Mastic	Asbestos Present Chrysotile 4	NA	Tar


Gayle Ooten, Analyst

7/21/2011
Date of Report

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

Quantem is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101939-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-02-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



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ASBESTOS CHAIN OF CUSTODY

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LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Lab No. 19391

Quantem Website Other

Project Name: Hobart Agency

Project Location: 711 N. Lincoln

Project ID: _____

Company: Enclon

Contact: Richard Behler

Account #: _____

Phone: 722-2693

Cell Phone: _____

Email: _____

Project Name: Hobart Agency

Project Location: 711 N. Lincoln

Project ID: _____

Sample ID: RB-A-MLB

Requested by: M. M. Bruestem

Date: 7-19-11

DATE & TIME: 7:24/12:00

ANALYST: Heidi

RECEIVED BY: Colleen Van Eck

DATE-TIME: 7:20/12:10

No.	Sample ID (ie. QW0001-001)	PLM	Color	Material	Method	ANALYSIS				Comments/Notes	
						Vermiculite (EPA 600/4-93-013)	Other	AI-AHEM	AI-NIOSH 7402		AI-30 10312
1	HA-1-01	<input checked="" type="checkbox"/>	Grey/Brown	Pressed Wood	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	-1-02	<input type="checkbox"/>	↓	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	-2-01	<input type="checkbox"/>	White	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	-2-02	<input type="checkbox"/>	White/gray	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	-3-01	<input type="checkbox"/>	White	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	-3-02	<input type="checkbox"/>	White	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	-4-01	<input type="checkbox"/>	White	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8	-4-02	<input type="checkbox"/>	↓	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9	-4-03	<input type="checkbox"/>	↓	↓	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10	↓-5-01	<input checked="" type="checkbox"/>	Grey	Pipe Fittings 3"-4"	↓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73106-3517 • Mark Package "Hold for Saturday Pickup"



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LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

For Lab/Field Use Only
 Lab No. 19391
 Accept Reject

Project Information		Project Name: <u>Hobart Academy</u>		Project Location: <u>217 N. Lincoln</u>	
Company: <u>ES&C Corp.</u>	SP-10 ID (No. Overwritten Must Be Deleted)	Color	Material	Volume / Area (as applicable)	Comments / Notes
11	HA-5-02	White	✓	Pipe Fitting 3"-4"	Down Cold
12	-5-03	Gray	✓		
13	-6-01	Brown	✓	Pipe Insulation	Downside Cold
14	-6-02	↓	✓		
15	-6-03	↓	✓		
16	-7-01	Brown/Black	✓	Pipe Insulation	3"-4" - Downside Hot
17	-7-02	↓	✓		
18	-7-03	↓	✓		
19	-7-01	Brown/Black	✓	Tan Carpet	Mastic
20	-8-02	↓	✓		
21	-9-01	White	✓	Wall Paper	
22	-9-02	↓	✓		
23	-9-03	↓	✓		
24	-10-01	White/Black	✓	Joint Compound	
25	-10-02	↓	✓		
26	-10-03	↓	✓		
27	-11-01	Gray	✓	Thin Tile w/ Black Mastic	(1x1)
28	-11-02	↓	✓		
29			✓		
30			✓		

Scope of Work

STATEMENT OF WORK

For

Remediation of Lead and Asbestos Contamination at Hobart 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 Hobart, Oklahoma. This statement of work (SOW) describes the cleanup of lead contaminated dust, abatement of lead-based paint, and removal and proper disposal of asbestos containing material. 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 Hobart Armory is attached for review (Attachment 1).

The building is located at 217 North Lincoln Street, Hobart, Oklahoma 73651. The building does not have available water and electricity to use during remediation.

SPECIAL PROVISIONS:

1. **Work Schedule:** The Contractor shall schedule all work to be complete within ninety (90) calendar 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;
- Posses a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Posses a current Oklahoma Department of Labor (ODOL) Asbestos Abatement Contractor License or have a licensed sub-contractor in order to perform asbestos 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;

Submit With Bid:

- Copy of lead-based paint firm license;
- Copy of lead-based paint supervisor license;
- 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;

SEQUENCE OF EVENTS

The remediation of the building shall be as follows:

1. First – The asbestos and lead-based paint abatement shall be completed.
2. Second – Enercon Services Inc. shall be contacted to confirm all asbestos has been appropriately removed and DEQ shall be contacted to confirm all lead-based paint abatement has been appropriately performed.
3. Third – All floors of the entire building shall be cleaned;
4. Fourth – DEQ shall be contacted to perform third party confirmation sampling to confirm all floors have been appropriately remediated.

ASBESTOS ABATEMENT INSTRUCTIONS

- Non-friable and/or non-regulated Asbestos Containing Material (ACM) shall be removed as described in the attached Specifications for Removal of Non-Friable Asbestos (Attachment 2). Below is a list of non-friable and/or non-regulated ACM along with instruction to remove or leave in place:
 - Remove 430 SF of black adhesive mastic beneath floor tile located in Rooms 13, 14, and 17.
 - Do Not Remove corrugated transite roof located in Drill Floor.
- Friable and regulated ACM shall be removed as described in the attached Asbestos Abatement Project Design (Attachment 2).
- For more details see the attached Hobart Armory Asbestos Inspection Report with floor plan map showing locations of ACM (Attachment 2).
- Once Asbestos Abatement is complete, Enercon Services Inc. shall be contacted to confirm abatement has been appropriately performed and all asbestos has been removed.

LEAD-BASED PAINT ABATEMENT INSTRUCTIONS

See Survey and Assessment for Lead in Paint and Settled Dust
Report for details (Attachment 7)

1. 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 7);
 - All walls and ceilings of Rooms 2, 6, and 20
 - The painted brick wall in Room 3
 - All overhead door frames
 - All wood beams above bay windows in Room 1
 - All overhead door guards
 - All interior and exterior window and door lintels in Rooms 1,2,6, and 20
 - All wood window trim and window sills in Rooms 1,2,6, and 20
 - The door frame and door lintel located between Room 1 and Room 2
- All baseboards and wood trim from Rooms 2, 6, and 20 shall be removed, wrapped in 6 mil poly sheeting and properly disposed.
- The sliding door and track located between Room 1 and Room 2 shall be removed, wrapped in 6 mil poly sheeting, and properly disposed.
- Deteriorated paint removed from building surface will be properly disposed.

2. Friction and Impact Surfaces

A. Windows

- A Window-Scope of Work with map, window measurements, specifications for window replacement, and specific details on abatement requirements for each window is attached (Attachment 5);
- Windows installed must meet all attached specifications;
- Window installation and oversight of window removal shall be performed by a third party professional window installation company that is certified and recommended by the window manufacturer of the windows being installed;
 - Window installer shall have no less than five (5) years installation experience;
- Window installer shall have experience with removal of steel casement windows;
- All interior and exterior window sills shall be HEPA vacuumed and wet washed after windows have been removed and replaced;
 - Once window sills have been cleaned, contractor shall encapsulate with DEQ approved lead-based paint encapsulant.

B. Doors and Frames

- A Door-Scope of Work with map, door measurements, and specific details on abatement requirements for each door is attached (Attachment 6);

- If door frames are wood, Door frames will be replaced with Steelcraft F16 and F14 – Series Flush Frames (Specifications Attached) or equivalent;
- If door frames are metal, Doors will be replaced with pre-hung Steelcraft Commercial Replacement Door Units (Specifications Attached) or equivalent;
- 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;
- Hinges: As manufactured by Hagar or approved equal – Plain Bearing - Standard Weight 1279 NRP, 4 ½ X 4 ½ (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

- Interior doors will be replaced with non-galvanized, 18 gage, honeycomb core insulated doors;
- Hinges: As manufactured by Hagar or approved equal – Plain Bearing – Standard Weight 1279, 4 ½ X 4 ½ (Specification 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.

3. 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

See Survey and Assessment for Lead in Paint and Settled Dust
Report for details (Attachment 7)

1. Lead Dust Remediation (See Attachment 7)

- 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 Enercon Services to perform 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 C (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.

2. Disposal of Materials

Hazardous Waste

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

3. 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 samples taken by Enercon Services Inc.
- Department of Environmental Quality (DEQ) will be responsible for taking all post remediation samples.
- DEQ shall be notified five (5) days prior to each sampling event.
- Contact information: Department of Environmental Quality
Contact: Dustin Davidson
Phone: (405) 702-5115
Email: Dustin.Davidson@deq.ok.gov
- The third-party sampling shall not be included in the contractors base bid:
- All post remediation sampling will be performed after all initial abatement, remediation, and cleaning is complete.

FINAL REPORT

- Write final report and submit to DEQ:
 - Final report shall include asbestos 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:

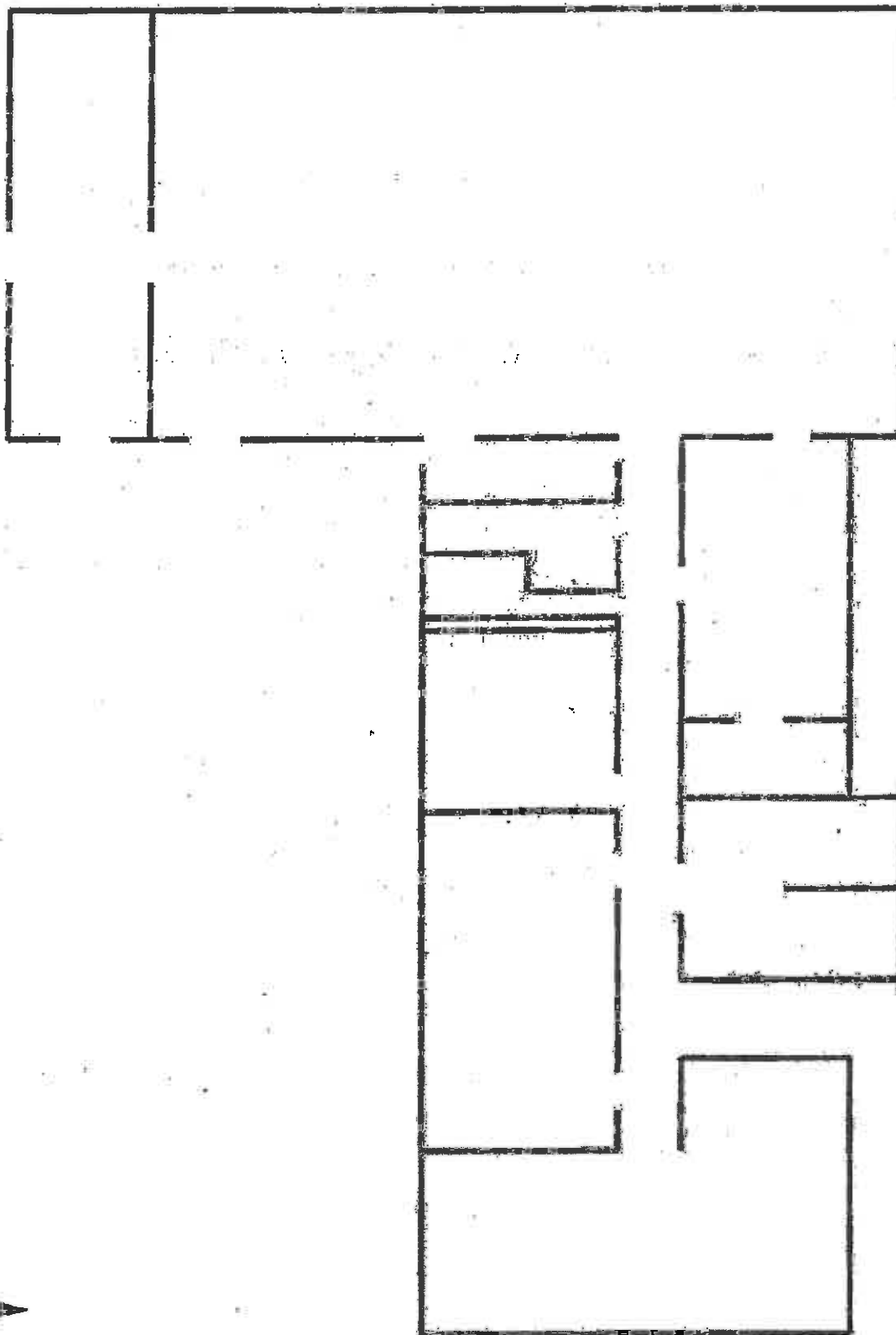
Dustin Davidson
Oklahoma Department of Environmental Quality
Land Protection Division
707 N. Robinson
Oklahoma City, OK 73102
(405) 702-5115 (Office)
(405) 702-5101 (Fax)
E-Mail: Dustin.Davidson@deq.ok.gov

ATTACHMENT 1

Hobart Armory Floor Plan Map

Hobart Armory - 1949

Floor Plan



Floor plan not drawn to scale

ATTACHMENT 2

Hobart Armory Asbestos Project Design

Hobart Armory Asbestos Scope of Work

Hobart Armory Asbestos Inspection Report

RECEIVED

DEC 19 2011

LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

ASBESTOS ABATEMENT PROJECT DESIGN
HOBART ARMORY
HOBART, OKLAHOMA

- A. **INTRODUCTION:** This Project Design was prepared by Enercon Services, Inc., in order to provide a prudent course of action for handling of asbestos abatement of piping and drywall joint compound in the Hobart Armory. Protocols to be used are to protect abatement workers from exposure to airborne asbestos fibers during the work being performed. The building is unoccupied and will remain so until completion of the project.
- B. **PROJECT INFORMATION:**
1. Project Name: Asbestos Abatement, Hobart Armory
 2. Description of Work/Occupancy: The work addressed herein involves glove-bagging of line and fitting insulation on piping and drywall joint compound abatement in the Hobart Armory.
 3. Project Type: Renovation.
 4. Abatement Contractor: To be determined by bid.
 5. Industrial Hygiene/Air Monitoring Firm: To be determined by abatement contractor.
 6. Analytical Laboratory: To be provided by abatement contractor.
- C. **REGULATORY COMPLIANCE (1):** The specific governing regulations affecting this work include, but are not limited to, 29 CFR 1926.1101 (OSHA Construction Industry Asbestos Standard), 29 CFR 1910.134 (OSHA Respiratory Protection), 40 CFR 61, Subpart M (Asbestos NESHAP) and OAC 380:50 (Oklahoma Rules for Abatement of Friable Asbestos). Waste transport and disposal is to be performed by an Oklahoma-licensed asbestos waste transporter with a waste disposal manifest/chain of custody signed by the receiving landfill. DOT Class 9 placards are to be displayed during transportation of asbestos waste.
- D. **WORK SEQUENCING/SCHEDULING (2):** The work in the Hobart Armory is to be done in a single phase with two sequential tasks. The work is to be scheduled by the abatement contractor in coordination with Enercon Services and the Department of Environmental Quality. The work is expected to be planned for 10-hour work shifts on weekdays during normal work hours.
- E. **EGRESS AND FIRE PROTECTION (3):** In the event emergency evacuation is necessary, the primary exit will be to exit the work area through the decon then through the nearest exit to the outside of the building. There are multiple exits available for secondary exits. Workers will be briefed on the available exit paths, emergency procedures and the assembly point at the beginning of the work shift. No special fire protection measures are required. One 10#ABC fire extinguisher will be placed inside the work area and one set at the decon. The work area extinguisher will be kept in the vicinity of the work crew.

F. MATERIALS TO BE ABATED (4):

1. Description: The material to be abated is line and fitting insulation on piping throughout the building and drywall joint compound in Rooms 8 and 19.
2. Amount, Location and Type of Asbestos-Containing Materials (ACM): There is approximately 270 linear feet of piping insulation with fittings to be abated. The piping and fitting insulation contains from 2-20% Chrysotile and 15-20% Amosite. Approximately 800 SF of drywall with joint compound will be removed. The joint compound contains 3-4% Chrysotile. The laboratory report is attached.

G. ASBESTOS ABATEMENT METHODS (5):

Task 1: Line and fitting insulation will be removed within critical barriers using glove-bag procedures with an attached decon and load-out. Removal of approximately 500 SF of Styrofoam ceiling tiles for piping access will be necessary prior to prep and hanging of glove-bags. Demolition of portions of the restroom chase wall and walls with piping inside will be necessary for access to piping serving fixtures in the restrooms. Demolition will be done during prep with care taken not to disturb the piping. Poly drop cloths will be placed on the floor beneath the piping during installation of glove-bags and during glove-bagging. The decon and loadout will be erected at the double doors into the drill room. Refer to the attached layout. A 600-800 CFM air filtration device (AFD) will be attached to the decon and exhausted out a nearby doorway. Bagged waste may be stored temporarily on a drop cloth in a convenient location inside of the work area awaiting loadout into a waste container. At the end of the work shift or when sufficient waste has accumulated for loadout, the waste will be removed from the storage area and loaded into a poly-lined disposal trailer/van.

Task 2: The drywall joint compound will be removed from Rooms 8 and 19 by removing the drywall. The piping in these two rooms may be done by gross removal in containment (or by glove-bagging in Task 1) at the contractor's discretion. Approximately 600 SF of Styrofoam ceiling tiles and metal grid will be removed for access to the upper walls and the piping located above the lay-in ceiling. The ceiling tiles are to be removed and stacked in the room across the corridor for re-installation by others. The grid is to be removed and disposed as ordinary uncontaminated waste. Light fixtures and other ceiling-mounted items will be secured to the roof trusses and wrapped in poly during prep. Critical barriers will be installed over windows and above the top of the wall between Room 19 and Room 18. Two layers of 6-mil floor poly will be installed. A double layer of wall poly will be installed over the three walls in Room 19 that are not being abated. The volume of the abatement area is approximately 6,300 cubic feet. One 1200-1,500 CFM air filtration device will provide more than eleven air changes per hour and will be ducted to the outside through a window and will provide air flow through the decon. An attached decon and loadout will be erected in the hallway (see attached layout). Insulation inside the wall cavities will be removed and bagged for disposal as contaminated waste. The bagged waste may be stored inside the work area awaiting loadout. The inside of the containment will be locked down following the visual inspection.

H. ASBESTOS AIR MONITORING/RESPIRATORY PROTECTION (6-8): All prep work except hanging of glove-bags may be done unprotected. Full-body protective clothing and full-face APR with HEPA-cartridges will be worn during abatement. Full-body protective clothing and minimum half-face APR will be worn during handling and loadout of the double-bagged waste.

Personal air samples will be collected on a minimum of two workers or 25%, whichever is greater, during work requiring respiratory protection. One inside area air monitor will be placed inside each task work area while abatement is in progress. One area monitor will be set outside the decon clean room for each task during abatement and one will be placed along the loadout path during load-out for each task. The AFD for Task 1 will be exhausted outside through a doorway and for Task 2 through a window and the exhausts will be monitored. Piping abated will be locked down under Task 1 and the interior of the containment will be locked down following the visual inspection for each task using a tinted lockdown encapsulant or spray paint.

Five 1,200 liter PCM clearance samples will be collected in each task work area following the visual inspection; approximate locations are noted on attached layout.

I. LABORATORY CERTIFICATIONS: The laboratory to be used for analysis of personal and area asbestos air samples will be determined by the abatement contractor. All air samples will be collected by an experienced Asbestos Air Monitoring Technician qualified to collect and analyze air samples in Oklahoma.

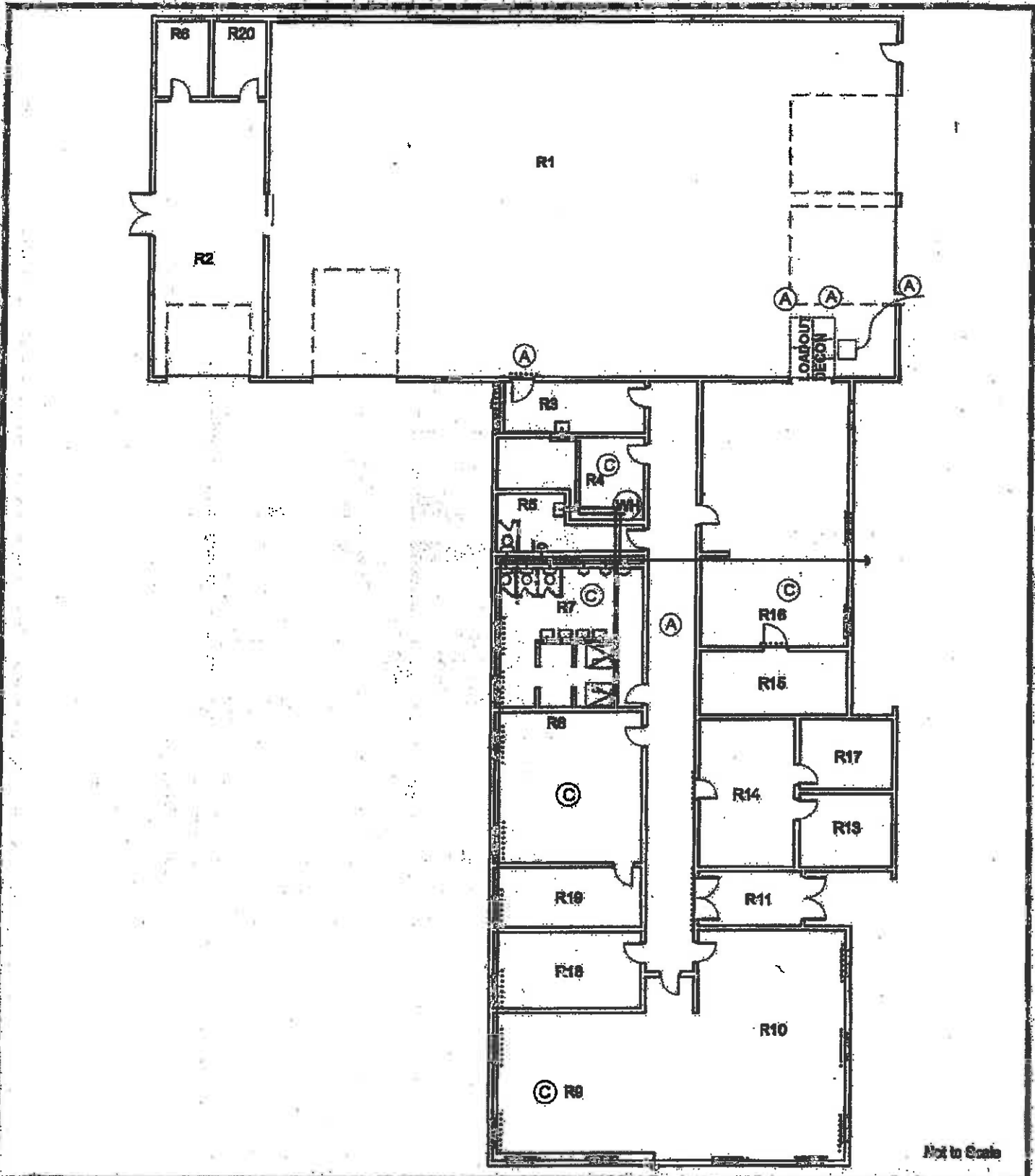
J. CONTAINMENT METHODS (9):

Task 1: Critical barriers and a drop cloth beneath the piping during glove-bagging will be used. Rolling scaffolding or ladders will be used as necessary to access the piping. Workers will be briefed by the supervisor regarding relevant safety issues associated with the work at the beginning of each work shift. Asbestos barrier tape will be used as necessary to demarcate the regulated area. All electrical circuits within arm's reach of the glove-bags will be shut off and locked out/tagged out. Power for the decon shower, any temporary work lighting, HEPA-vacuums, and AFD for the decon will be supplied through a GFCI-board or pigtails. Power for abatement activities will be obtained from building sources.

Task 2: A double layer of floor poly and critical barriers with an attached decon and loadout with a negative pressure containment will be used, except that the walls in Room 19 that do not have asbestos joint compound are to remain in place and covered with a double layer of minimum 4-mil poly. The drywall/joint compound on the four inner walls in Room 8 and the north wall only of Room 19 will be removed in containment. All electrical circuits in these rooms will be shut off and locked out/tagged out. Power for the decon shower, temporary work lighting, HEPA-vacuums, the AFD and other electrically-powered equipment will be supplied through a GFCI-board or pigtails. Piping in these rooms not abated in Task 1 is to be abated in this task using gross removal procedures.

K. DECONTAMINATION SYSTEM (10): An attached three-chambered decon will be used for both tasks. For Task 1, an AFD will be connected to provide air flow through the decon located at the single-door entrance to the office area from the drill room. The attached decon for Task 2 will be located in the corridor outside Room 8 and will share a dirty room with the loadout. When arriving at the decon, workers are to enter the dirty room, remove their suits, enter the shower with only their respirator on, remove their respirator and shower with soap and water. After rinsing their body and respirator, they are to proceed into the clean room to dry off, put on their street clothes, clean their respirator and store it for subsequent use. The clean room is to be kept tidy. Water for the decontamination shower will be obtained from nearby sources in the building. Filtered shower effluent will be discharged into the sanitary sewer system serving the building. Procedures set forth in OAC 380:50-15-7, 8 and 12 are to be followed.

L. SOIL CONTAMINATION (11): No contaminated soils are to be abated in this project.



Not to Scale

Hobart Armory
215 N Lincoln Street

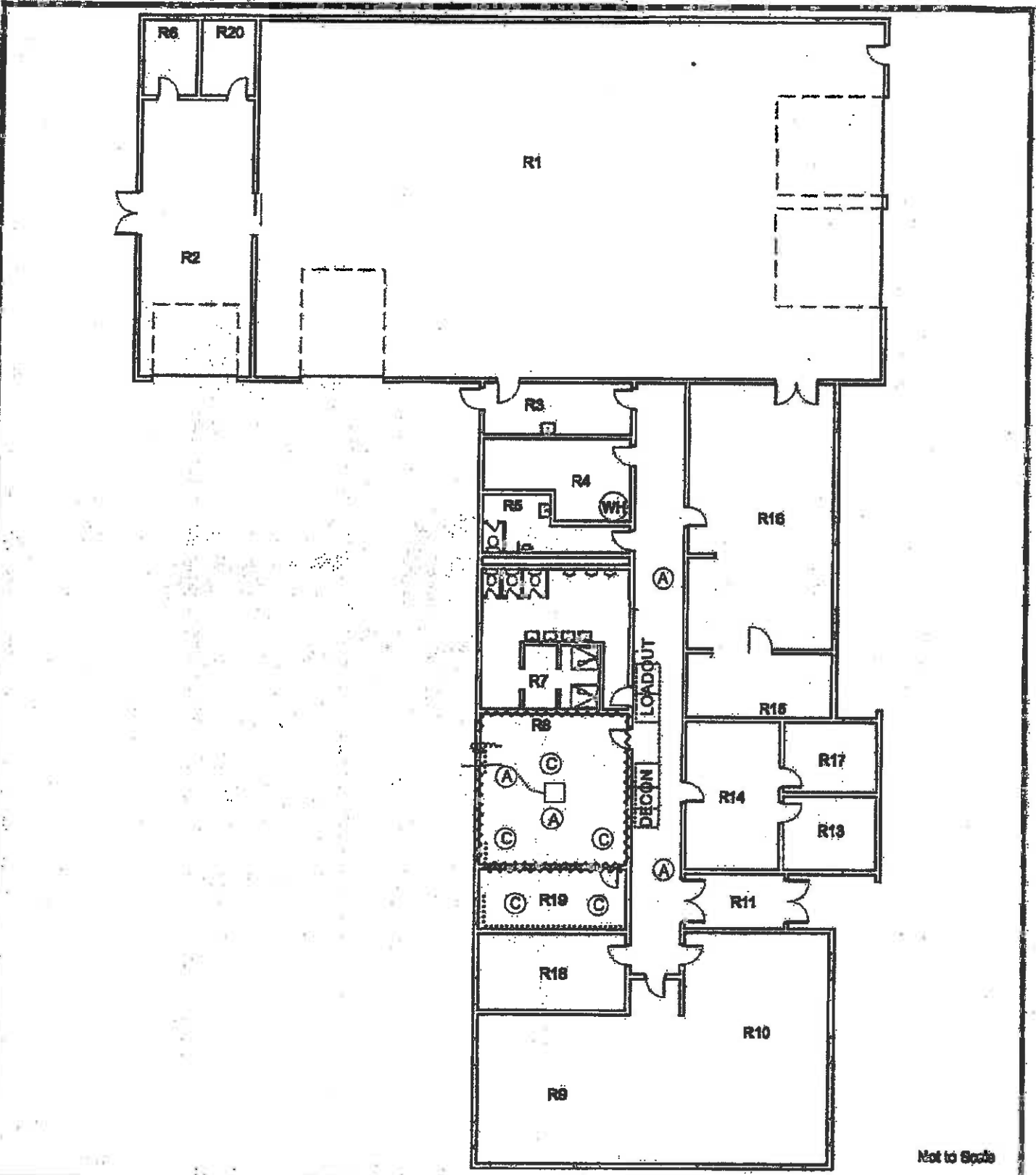
Legend:

- Pipe and Filings with asbestos insulation
- Critical barrier
- (A) Area air monitor
- (C) Clearance air sample



Project Design Layout





Project:
Hobart Armory-Task 1



Not to Scale

Hobart Armory
215 N Lincoln Street

Legend:

-  Wall/Joint compound to slabs
-  Critical barrier
-  Area air monitor
-  Clearance air sample



Project Design Layout

Project: Hobart Armory-Task 2



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

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791	Client: Enercon Services, Inc.
Account Number: AB45	6525 N. Meridian, Suite 400
Date Received: 07/20/2011	Oklahoma City, OK 73116
Received By: CeCelia Van Eck	Project: Hobart Armory REVISED
Date Analyzed: 07/20/2011	Project Location: 217 N. Lincoln
Analyzed By: Gayle Ooster	Project Number: N/A
Methodology: EPA/600/R-93/116	

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	HA-1-01	Homogeneous	Brown Fiberboard	Asbestos Not Present	Cellulose 95	Binder
002	HA-1-02	Homogeneous	Brown Fiberboard	Asbestos Not Present	Cellulose 95	Binder
003	HA-2-01	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 20	Gypsum
004	HA-2-02	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 8	Gypsum
005	HA-3-01	Homogeneous	Gray Window Glazing	Asbestos Not Present	NA	CaCO3 Binder
006	HA-3-02	Homogeneous	Gray Window Glazing	Asbestos Present Chrysotile <1	NA	CaCO3 Binder

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

QuantEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



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

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791	Client:	Emercon Services, Inc.
Account Number: A845		6525 N. Meridian, Suite 400
		Oklahoma City, OK 73116
Date Received: 07/20/2011	Project:	Hobart Armory REVISED
Received By: CeCelia Van Eck	Project Location:	217 N. Lincoln
Date Analyzed: 07/20/2011	Project Number:	N/A
Analyzed By: Gayle Ooten		
Methodology: EPA/600/R-93/116		

QuantEM Sample ID	Client Sample ID	Composition	Color/Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
007	HA-4-01	Homogeneous	White Ceiling	Asbestos Not Present	Cellulose 10	Gypsum Perlite Binder
008	HA-4-02	Homogeneous	White Ceiling	Asbestos Not Present	Cellulose 10	Gypsum Perlite Binder
009	HA-4-03	Homogeneous	White Ceiling	Asbestos Not Present	Cellulose 12	Gypsum Perlite
010	HA-5-01	Homogeneous	Gray Pipe Fitting	Asbestos Present Chrysotile 20 Amosite 20	Glass Fiber 15	CaCO3 Binder
011	HA-5-02	Homogeneous	Cream Pipe Insulation	Asbestos Present Amosite 15	NA	CaCO3 Binder
012	HA-5-03	Homogeneous	Gray Pipe Insulation	Asbestos Present Chrysotile 10 Amosite 15	Glass Fiber 10	CaCO3 Binder

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Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791	Client: Enercon Services, Inc.
Account Number: A845	6525 N. Meridian, Suite 400
Date Received: 07/20/2011	Oklahoma City, OK 73116
Received By: CeCelia Van Eck	
Date Analyzed: 07/20/2011	Project: Hobart Armory REVISID
Analyzed By: Gayle Ooten	Project Location: 217 N. Lincoln
Methodology: EPA/600/R-93/116	Project Number: N/A

QuantEM Sample ID	Client Sample ID	Composition	Color/Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
013	HA-6-01	Layered	Brown/White Pipe Insulation	Asbestos Not Present	Cellulose 85	Paint Binder
013a		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 20	Cellulose <1	Tar Binder
014	HA-6-02	Layered	Brown/White Pipe Insulation	Asbestos Not Present	Cellulose 85	Paint Binder
014a		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 15	Cellulose 5	Tar Binder
015	HA-6-03	Layered	Brown/White Pipe Insulation	Asbestos Not Present	Cellulose 85	Paint Binder
015a		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 15	Cellulose 10	Tar Binder

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No:	197791	Client:	Enercon Services, Inc.
Account Number:	A845		6525 N. Meridian, Suite 400
			Oklahoma City, OK 73116
Date Received:	07/20/2011	Project:	Hobart Armory REVISED
Received By:	CoCelia Van Eck	Project Location:	217 N. Lincoln
Date Analyzed:	07/20/2011	Project Number:	N/A
Analyzed By:	Gayle Ooten		
Methodology:	EPA/600/R-93/116		

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
016	HA-7-01	Layered	White Pipe Wrap	Asbestos Present Chrysotile 2 Amosite 10	Cellulose 3 Glass Fiber 20	CaCO ₃ Binder
016a		Layered	Brown Pipe Insulation	Asbestos Not Present	Cellulose 95	Binder
016b		Layered	Black Pipe Insulation	Asbestos Present Chrysotile 15	Cellulose 8	Tar Binder
017	HA-7-02	Homogeneous	White Pipe Insulation	Asbestos Present Chrysotile 8 Amosite 10	NA	CaCO ₃ Binder
018	HA-7-03	Homogeneous	White Pipe Insulation	Asbestos Present Chrysotile 10 Amosite 10	NA	CaCO ₃ Binder
019	HA-8-01	Homogeneous	Tan Carpet Mastic	Asbestos Not Present	NA	Glue Binder

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

Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 197791	Client: Enercon Services, Inc.
Account Number: A845	6525 N. Meridian, Suite 400
Date Received: 07/20/2011	Oklahoma City, OK 73116
Received By: CeCelia Van Eck	
Date Analyzed: 07/20/2011	Project: Hobart Armory REVISED
Analyzed By: Gayle Ooten	Project Location: 217 N. Lincoln
Methodology: EPA/600/R-93/116	Project Number: N/A

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
020	HA-8-02	Homogeneous	Tan Carpet Mastic	Asbestos Not Present	NA	Glue Binder
021	HA-9-01	Homogeneous	White Wall Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
022	HA-9-02	Homogeneous	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
023	HA-9-03	Homogeneous	White Wall Texture	Asbestos Not Present	NA	CaCO3 Paint
024	HA-10-01	Homogeneous	Tan Joint Compound	Asbestos Present Chrysotile 4	NA	CaCO3 Binder
025	HA-10-02	Homogeneous	Tan Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3 Binder

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2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 765-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

QuantEM Lab No. 197791

Account Number: A845

Date Received: 07/20/2011

Received By: CeCelia Van Eck

Date Analyzed: 07/20/2011

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client:

Emeroon Services, Inc.
6525 N. Meridian, Suite 400
Oklahoma City, OK 73116

Project:

Hobart Armory REVISED

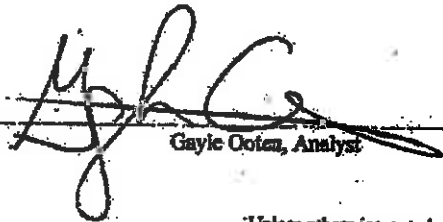
Project Location:

217 N. Lincoln

Project Number:

N/A

QuantEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
026	HA-10-03	Homogeneous	Tan Joint Compound	Asbestos Present Chrysotile 4	NA	CaCO3 Binder
027	HA-11-01	Layered	White Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
027a		Layered	Black Mastic	Asbestos Present Chrysotile 5	Cellulose	<1 Tar
028	HA-11-02	Layered	White Floor Tile	Asbestos Not Present	NA	Vinyl CaCO3
028a		Layered	Black Mastic	Asbestos Present Chrysotile 4	NA	Tar


Gayle Ooten, Analyst

7/21/2011

Date of Report:

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

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ASBESTOS CHAIN OF CUSTODY

2055 Heritage Park Drive, Oklahoma City, OK 73126-2502
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2059

Lab No. 193881
 Project: Asbestos

Quantem Website
 Other

Company: Enclon
 Contact: Richard Belter
 Project Name: Robert Army
 Project Location: 27th St. Omaha
 Project ID: 7-17-11

Requested By: RB LALIB
 Date/TIME: 7/17/11
 Date/TIME: 7/20/11
 RECEIVED BY: Col. Van Veen

No.	Sample ID (in container lid)	Z1 to be Analyzed	Color	PLM		ITEM		TSM	TURNAROUND TIME
				Vermiculite AWC Insulation (EPA 8070c-9903)	Other	Asbestos	Asbestos		
1	HA-1-01	<input checked="" type="checkbox"/>	Grey/Brown	<input checked="" type="checkbox"/>		Asbestos			Rush
2	1-1-02	<input type="checkbox"/>				Asbestos			Same Day
3	2-1-01	<input type="checkbox"/>	White			Asbestos			24-Hour
4	2-1-02	<input type="checkbox"/>				Asbestos			3-Day
5	3-1-01	<input type="checkbox"/>	White			Asbestos			5-Day
6	3-1-02	<input type="checkbox"/>				Asbestos			
7	4-1-01	<input type="checkbox"/>				Asbestos			
8	4-1-02	<input type="checkbox"/>				Asbestos			
9	4-1-03	<input type="checkbox"/>				Asbestos			
10	5-1-01	<input checked="" type="checkbox"/>	Grey			Asbestos			

No.	Sample ID (in container lid)	Z1 to be Analyzed	Color	Destination	Verifying Agent (if applicable)	Comments / Notes
1	HA-1-01	<input checked="" type="checkbox"/>	Grey/Brown	Pressed Wood		
2	1-1-02	<input type="checkbox"/>				
3	2-1-01	<input type="checkbox"/>	White	Plaster II		
4	2-1-02	<input type="checkbox"/>				
5	3-1-01	<input type="checkbox"/>	White	Grout		
6	3-1-02	<input type="checkbox"/>				
7	4-1-01	<input type="checkbox"/>				
8	4-1-02	<input type="checkbox"/>				
9	4-1-03	<input type="checkbox"/>				
10	5-1-01	<input checked="" type="checkbox"/>	Grey	Pipe Fitting 3"-4"		

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE. Use this address for Saturday delivery only. 2020 N. State St. Ave., Oklahoma City, OK 73102-2612. For Saturday pickup



www.Quantem.com

ASBESTOS CHAIN OF CUSTODY

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

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Lab No. 19331 Accept Reject
 For Lab Use Only

Project Information		Project Name:	Project Location:
Company: <u>ISAC Com</u>		<u>Robert's Army</u>	<u>217 N. Lincoln</u>
No.	Sample ID (by chain of custody)	Color	Description
11	HA-S-02	White	Pipe Filing 3"-9" Down Cold
12	-5-03	Gray	↓
13	-6-01	Brown	Pipe Insulation Domestic Cold
14	-6-02	↓	↓
15	-6-03	↓	↓
16	-7-01	Brown/White	Pipe Insulation 3"-9" Domestic Hot
17	-7-02	↓	↓
18	-7-03	↓	↓
19	-8-01	Brown/White	Fan Carpet Mastic
20	-8-02	↓	↓
21	-9-01	White	Cellulose
22	-9-02	↓	↓
23	-9-03	↓	↓
24	-10-01	White/Black	Joint Compound
25	-10-02	↓	↓
26	-10-03	↓	↓
27	-11-01	Gray	Flex Tile/Black Mastic (1x1)
28	-11-02	↓	↓
29			
30			

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73106-8817 • Mark Package "Hold for Saturday Pickup"

Project Design Review Form

Oklahoma Department of Labor

Asbestos Division

3017 N. Stiles, Oklahoma City, OK 73105

Phone - 405.521.2464

Fax - 405.521.8020

Project Name: HOBART ARMOY

Project No: 11-6888

Date: 12/15/11

Project Designer: BILL MUEBNER-OKPD-140007

Approved: X

Disapproved:

ITEM	ACCEPTED	REJECTED	COMMENTS
1. A statement that OCA Abatement of Friable Materials Rules apply.	X		OAC 380.60 OKLAHOMA RULES FOR ABATEMENT OF FRIABLE ASBESTOS
2. Sequencing and phasing of work.	X		ONE(1) PHASE WITH TWO(2) SEQUENTIAL TASKS
3. Identification of areas of escape and a fire protection plan and a diagram for emergency escape routes, and fire extinguisher placements.	X		PRIMARY EXIT THROUGH DECON THEN TO NEAREST OUTSIDE EXIT, EXITS WILL BE ILLUMINATED. 1-10LB ABC FIRE EXTINGUISHER INSIDE WORK AREA AND 1 AT DECON
4. The quantity, type, percentage with bulk analysis unless presumed, and a diagrammed location of asbestos materials to be abated.	X		270' L OF 181 THAT CONTAINS 2-20% CHRYSOTILE AND 15-20% AMOSITE LOCATED THROUGH-OUT BUILDING AND 800 SF OF DRYWALL WITH JOINT COMPOUND THAT CONTAINS 3-4% CHRYSOTILE IN ROOM 9 AND 19
5. Abatement methods, and techniques, and numbers of contaminants (glove bags or mini-containers).	X		FOLLOW SECTION G. ASBESTOS ABATEMENT METHODS AND SECTION J. CONTAINMENT METHODS LOCATED IN THE PROJECT DESIGN
6. Details of personal and area air monitoring samples.	X		288 OR MINIMUM OF 2 PERSONAL SAMPLES, 1 INSIDE AREA INSIDE EACH TASK AREA, 1 OUTSIDE DECON CLEAN ROOM FOR EACH TASK, 1 ALONG LOAD-OUT PATH DURING LOAD-OUT AND 1 AT EACH AND EXHAUSTED TO THE OUTSIDE
7. Numbers and locations of Clean Test samples and type of analytical to be employed.	X		FIVE(5) 1200 LITER PCM CLEARANCES WILL BE COLLECTED FOR EACH TASK FOLLOWING THE VISUAL
8. Numbers, capacities, a diagram to identify locations, and discharge points, if any, of negative air machines.	X		AFO NOT REQUIRED IN TASK 1 EXCEPT ON DECON. AFO WILL BE EXHAUSTED TO THE OUTSIDE AND MONITORED. 1 AFO IN TASK 2 THAT WILL BE EXTERNALLY EXHAUSTED AND MONITORED
9. Details of project containment(s), glove bag or mini-containers, including drawings. Details shall include all applicable subcomponents, including but not limited to scaffolding and fire electric isolation.	X		FOLLOW SECTION J. CONTAINMENT METHODS LOCATED IN THE PROJECT DESIGN
10. Details of decontamination system(s).	X		ATTACHED 3 CHAMBER DECON WILL BE USED FOR EACH TASK. PROCEDURES SET FORTH IN OAC 380.50-16-7, 8, AND 12 ARE TO BE FOLLOWED
11. The extent to which asbestos-containing soils, if any, must be removed, and the sampling methods of determining the efficacy of such removal.	N/A		
12. Special materials or methods required to protect objects in the work area should be detailed, (gloved over carpeting or hardwood floors to prevent damage from scuffs and/or falling materials)	X		FOLLOW SECTION M. DAMAGE PROTECTION LOCATED IN THE PROJECT DESIGN
13. Any variances from the Abatement of Friable Asbestos Materials Rules.	X		NO VARIANCES REQUESTED AT THE TIME PROJECT DESIGN WAS SUBMITTED

The Department of Labor reserves the right to require additional engineering or environmental controls consistent with the Abatement of Friable Asbestos Materials Rules which may be necessary because of discrepancies between this project design and field conditions, or from unanticipated changes in field conditions.

REVIEWED BY: [Signature] DATE: 12/15/11 REVIEWED BY: [Signature] DATE: 12/15/11

**SPECIFICATION FOR
REMOVAL OF NON-FRIABLE ASBESTOS
HOBART ARMORY**

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Approvals

Project Designer

Emmett W. Muenker
OK-PD140007

PART 1-GENERAL

1.1 SCOPE OF WORK

The work identified herein includes the removal and disposal of non-friable, asbestos-containing materials (ACM) by means that do not render them friable. The work noted in this Section is the special controls required by regulatory agencies having jurisdiction over such work. Most of the controls pertain to Contractor employees and site visitors' personal health and safety from exposure to asbestos fibers. The requirements will be monitored throughout each job by the asbestos project designer or his representative functioning as the Owner's Technical Representative.

- A. Approximately 5,400 square feet of Transite roof panels located above the drill room at the Hobart Armory are to be removed and disposed. Procedures for Transite removal are stated in Paragraph 3.7. The location the roof is shown on Figure 2.

- B. Approximately 430 square feet of floor tile adhesive located beneath non-asbestos floor tiles are to be removed and disposed. Procedures for removal are stated in Paragraph 3.6, Floor Tiles and Adhesive Removal.
- C. Paragraph 3.8 does not apply to this location.

1.2 SEQUENCE OF WORK

- A. The work shall be conducted in a single phase. The work should be done prior to or following completion abatement of friable asbestos materials in the building. This work is not subject to inspections by the Oklahoma Department of Labor.

1.3 REGULATORY COMPLIANCE

- A. U.S. Department of Labor, OSHA Asbestos Regulations, Code of Federal Regulations Title 29, Part 1926, Section 1101. (29 CFR 1926.1101)
- B. U.S. EPA regulations for Asbestos-containing Materials in Schools, Code of Federal Regulations Title 40 Part 763. (40 CFR 763)
- C. The Contractor will keep copies of the above regulations available for reference at the work site.
- D. Other state and local ordinances, regulations, or rules pertaining to asbestos including its storage, transportation, and disposal.
- E. Where any conflicts exist between these specifications and regulations published by federal or state agencies which govern abatement, transportation and disposal of non-friable asbestos-containing materials, the more restrictive shall govern.

1.4 NOTIFICATIONS

No regulatory notifications required: The Contractor is to coordinate the work with the Owner's Asbestos Consultant. The Contractor shall notify The Owner's Asbestos Consultant a minimum of five working days in advance of mobilization on site.

1.5 SUBMITTALS

- A. Pre-work submittals: At least five (5) days prior to beginning asbestos abatement work, the contractor shall submit copies of the following information to the Owner's Technical Representative.
 - 1. The name of the asbestos supervisor to be used on the project.
 - 2. A statement signed by an officer of the Contractor's firm, that all workers employed for the abatement of non-friable asbestos materials:

- a. Have completed AHERA worker or supervisor training or 8-OSHA training on removal of resilient floor coverings and adhesives.
 - b. Have had a medical examination within the previous year and are medically qualified to wear a respirator.
 - c. Have been fitted for the model and size respirator they will use on the job within the previous year.
3. A project schedule indicating planned work hours, work days and project start and completion dates.
 4. Documentation of an initial or negative exposure assessment indicating the breathing area fiber concentrations expected during removal of the materials and the PPE required during the work. Personal air monitoring will be required for two full work shifts if such assessment is not provided.
- C. During-work submittals:
1. If an exposure assessment is not provided, the Contractor shall conduct an initial exposure assessment and provide personal air monitoring results identifying worker name, work activity, PPE use, and TWA exposure level, in accordance with OSHA regulation 29 CFR 1926.1101.
 2. Copies of any inspection reports, consultation reports or other written project correspondence with any regulatory agency or The Owner's Asbestos Consultant.
- C. Post-work submittals: Within 15 days of completion of asbestos abatement, the contractor shall submit copies of the following documents to The Owner's Asbestos Consultant.
1. Copies of the waste disposal manifests confirming disposal at an authorized waste disposal facility.
 2. Any outstanding during-work submittals.
- D. Final payment to the contractor will not be authorized until all work is satisfactorily completed and the submittals have been provided to The Owner's Asbestos Consultant.

1.6 DEFINITIONS

The following definitions are adopted by reference. If statutory definitions are duplicated, the more stringent definition will apply.

- A. 29 CFR 1926.1101 (b)
- B. 40 CFR 61.141

PART 2-PRODUCTS

Not used.

PART 3-EXECUTION**3.1 WORKER PROTECTION**

- A. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and suitable for the asbestos exposure level in the work area, according to OSHA Standard 29 CFR 1926.1101. Where respirators with disposable filters are employed, provide sufficient filters for replacement as required by the worker or applicable regulation. Full beards, "mutton chop" sideburns, or any other facial hair that interferes with proper fit or use of respirators will not be allowed. Removal of non-friable asbestos shall begin with air-purifying respirators and their use will be continued until a statistically-significant negative exposure assessment is produced.
- B. Provide workers exposed to airborne concentrations of asbestos which exceed the levels prescribed in OSHA standard CFR 1926.1101 with sufficient sets of protective full-body clothing. Such clothing shall consist of full-body coveralls and headgear.
- C. Pursuant to OSHA requirements, the Contractor will provide an annual medical examination for each worker assigned to a project under this contract.
 - 1. The medical examinations will include, at a minimum, a posterior and anterior chest x-ray, pulmonary function tests (FVC and FEV), and a general health history.
 - 2. No medical additional examination is required of any employee, if adequate records show that an employee has been examined in accordance with this paragraph within the past one year period.
 - 3. Any employee found to have been exposed without proper protection at any time to airborne concentrations of asbestos fibers in excess of the limits prescribed in OSHA Standard 29 CFR 1926.1101 shall be notified in writing of the exposure as soon as practical but not later than five days of the finding. The employee shall also be timely notified of the corrective action being taken.
 - 4. The Contractor shall maintain records of these examinations for each worker, and upon request, provide them for review by the employee, Owner, Owner's Representative, OSHA officials, and State Inspectors as appropriate.

3.2 EQUIPMENT REMOVAL PROCEDURES

- A. Clean external surfaces of contaminated containers and equipment thoroughly by wet wiping before moving such items to uncontaminated areas.

3.3 DECONTAMINATION ENCLOSURE SYSTEMS:

- A. Not Required

3.4 CONTAINMENT FACILITIES

- A. Unless otherwise specified, ventilated isolation barriers and decontamination facilities will not be required for all separate work areas where only non-friable asbestos-containing materials are removed or encapsulated, as long as these materials are

removed essentially-intact using wet procedures. Where portions of the building are occupied during the work, critical barriers shall be installed between the work areas and the occupied portions of the building.

- B. The Contractor will post warning signs or install asbestos barrier tape around the perimeter of the entire work area, specifically at any entrance to the work area, and at any other location specified by The Owner's Asbestos Consultant. The signs shall meet the specifications outlined in OSHA Standard 29 CFR 1926.200 and 29 CFR 1926.1101(k)(7).
- C. The Contractor will restrict access to the work area to authorized individuals only. The work area will be secured at all times when contractor personnel are not present to control entry.

3.5 PREPARATION OF ASBESTOS ABATEMENT WORK AREA

- A. Remove movable objects from work areas to a temporary location within the building. Where carpeting is installed over floor coverings, the carpeting may be removed prior to or concurrently with the removal of the floor tiles.
- B. For removal of adhesive, protect walls and fixed objects within the work area and enclose with minimum 4-mil plastic sheeting sealed with tape, or protect with 36-inch high splash guards.
- C. Maintain emergency and fire exits from the work areas, or establish alternative exits in compliance with applicable fire codes.

3.6 ASBESTOS FLOOR TILES AND ADHESIVE REMOVAL

- A. Floor tiles shall be removed using the following procedures:
 - 1. The entire floor surface shall be wetted with surfactant-amended water. Floor tiles may not be removed dry.
 - 2. The tiles shall be removed by manual methods using a scraper or spade. Power chippers or grinders are not permitted.
 - 3. The tile shall be placed in minimum of 6-mil unlabeled plastic bags, preferably black opaque. They shall not be placed in asbestos disposal bags. The bags shall not be overfilled which promotes the tile tearing through the plastic.
 - 4. The bagged tiles shall be disposed in a sanitary landfill or construction debris landfill that accepts non-friable asbestos waste. Landfill disposal receipts are required in paragraph 1.5 C1 of this section.
- B. Floor tile adhesive shall be removed by the following procedures:
 - 1. A low-odor, non-flammable, non-toxic mastic/adhesive remover shall be mopped onto the floor. Using a broom, squeegee or scrub brush, the solvent shall be agitated

- into the mastic/adhesive. The material may be worked onto additional areas until it reaches a tarry consistency at which point it shall be scraped up and bagged.
2. Repeat as necessary until the mastic/adhesive is removed.
 3. A final cleaning with wiping rags shall be conducted. Used rags shall be placed in 6-mil unmarked plastic bags and disposed as non-friable asbestos waste.
 4. No sanding, grinding or abrading of floors where asbestos-containing mastic/adhesive remains shall be permitted.

3.7 ASBESTOS-CEMENT (TRANSITE) MATERIAL REMOVAL

Transite materials shall be removed using the following procedures:

- A. Asbestos barrier tape is to be installed around the area of work to demarcate the regulated area.
- B. The Contractor shall place a drop cloth on the ground along the exterior the building and on the floor inside the drill room in the area where the roofing panels are to be removed to catch any breakage that may occur during removal of the panels. The drop cloths are to be moved as necessary to cover the surfaces beneath the active removal area during removal of the panels.
- C. The Contractor shall use boom lifts or other similar equipment to access the roof panels for removal. The material is to be wetted prior to removal, removed from the structural members intact, lowered to the ground and placed in a poly-lined dumpster for transport to the disposal landfill.
- D. Care is to be taken during removal to prevent breakage of the panels during removal and handling, as the panels are to be removed intact to maintain their classification as non-friable material.
- E. The Contractor shall ensure that the area is left clean and tidy following removal of the roof.
- F. Clearance air sampling is not required for wet removal of Transite outdoors.

3.8 ASBESTOS-CONTAINING CAULK AND WINDOW GLAZING

- A. Caulk and window glazing shall be removed using the following procedures:
 1. A poly drop cloth shall be placed beneath the area where the caulk/glazing is to be removed.
 2. Loose caulk/glazing shall be removed using a HEPA-filtered vacuum.
 3. The caulk/glazing that is not loose shall be wetted and removed using manual means. The material is to be kept wet while scraping or brushing. The area of removal is to be damp wiped following removal.
 4. The removed material shall be placed in a 6-mil minimum unlabeled opaque plastic contractor trash bags and sealed with duct tape for disposal. The bagged material shall be disposed in a sanitary landfill or construction debris landfill that accepts non-friable asbestos waste. Landfill disposal receipts are required in paragraph 1.5 C1 of this section.
 5. The Owner's Asbestos Consultant shall inspect the areas of removal following completion of the work.

6. The work area is to be left clean and tidy following removal of the caulk/glazing.
7. Clearance sampling is not required for removal of three linear feet or less of this material indoors or any amount outdoors.

3.9 PERSONAL PROTECTIVE EQUIPMENT/AIR MONITORING

- A. Air sampling for OSHA compliance is the Contractor's responsibility by statute. This section deals only with the air monitoring requirements of the Contractor in performing employee exposure assessments. Industrial hygiene samples for quality assurance and clearance tests are not required to be done by the contractor, but will be conducted by the Owner's Asbestos Consultant as deemed appropriate.
- B. Samples of airborne asbestos concentrations shall be collected with air sampling pumps on 25-mm cellulose ester membrane filters of 0.8 micrometer porosity mounted in an open-face filter holder. Pumps shall be calibrated before each sampling period and a record of this calibration entered in the air sampling log.
- C. Unless a negative exposure assessment (NEA) has been performed and is available on site, work shall commence in full-body suits and half-face air purifying respirators, and continuous breathing zone air monitoring shall be conducted from start to completion of the non-friable material removal, disturbance, or repair operation. Twenty-five percent (25%) of the workers, with a minimum of 2 workers, shall be monitored each work shift. Any sampling device shall not exceed eight (8) hours (real time) of operation with any one filter. At times, a lesser real time may be required for a particular cassette. Sampling may be discontinued at such time as an NEA is completed for the work task and work may proceed without full-body suits and respirators. A minimum of two full work shifts is considered sufficient for an exposure assessment.
- D. Sampling devices shall be located within the breathing zone of personnel, including those removing, bagging, and loading-out bagged waste.
- E. All laboratory determinations of airborne concentrations of asbestos fibers shall be made by the membrane filter method using phase contrast illumination and 400-450x magnification, according to NIOSH 7400. Analysts shall be successful participants in the AIHA Proficiency Analytical Testing program or be individually registered and proficient participants through the AIHA Asbestos Analyst Registry.
- F. If any air sample collected in the breathing zone exceeds 0.1 fibers/cc, the Contractor will immediately discontinue all work until the cause is identified and corrected. Work will resume in air purifying respirators and full-body protective coveralls.

3.10 CLEAN-UP

- A. After completing the asbestos work the areas shall be cleaned up as follows:
- B. Remove waste containers, and equipment from the work area.

- C. When a visual inspection by the Owner's Asbestos Consultant determines that the areas are free of visible accumulations of asbestos material and debris, the contractor shall remove the splash guards and his equipment, signs, barrier tape, etc., from the area and PCM clearance sampling will be conducted by the Owner's Asbestos Consultant.
- D. Following receipt of satisfactory clearance sample results, the work area released for unrestricted worker access.

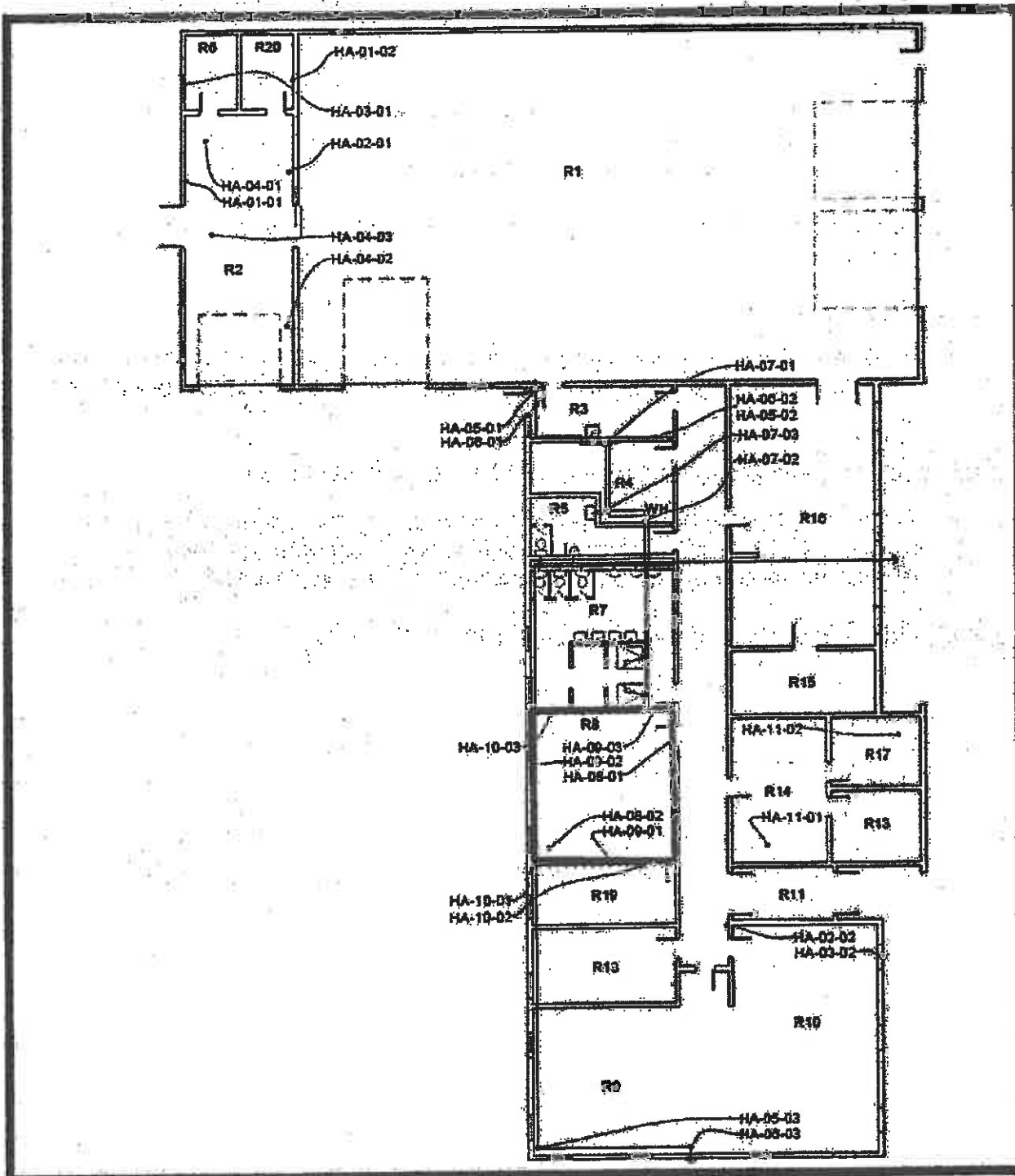
3.11 CLEARANCE TESTING

- A. The Owner's Asbestos Consultant will collect and analyze five 1,200 liter PCM air samples where non-friable asbestos has been removed unless otherwise stated in Paragraphs 3.7 -3.8.

3.12 DISPOSAL OF NON-FRIABLE ASBESTOS WASTE/CONTAMINATED MATERIALS

- A. As the work progresses, and to prevent exceeding available storage capacity on site, remove sealed bags of waste/contaminated materials and dispose of such bags at a disposal site meeting EPA and state requirements for non-regulated ACM.

FIGURE(S) – NON-FRIABLE MATERIAL LOCATIONS - SEE FOLLOWING PAGE(S)



Oklahoma Department of
 Environmental Quality
 National Guard Armory
 217 N. Lincoln Street
 Hobart, OK

Legend:




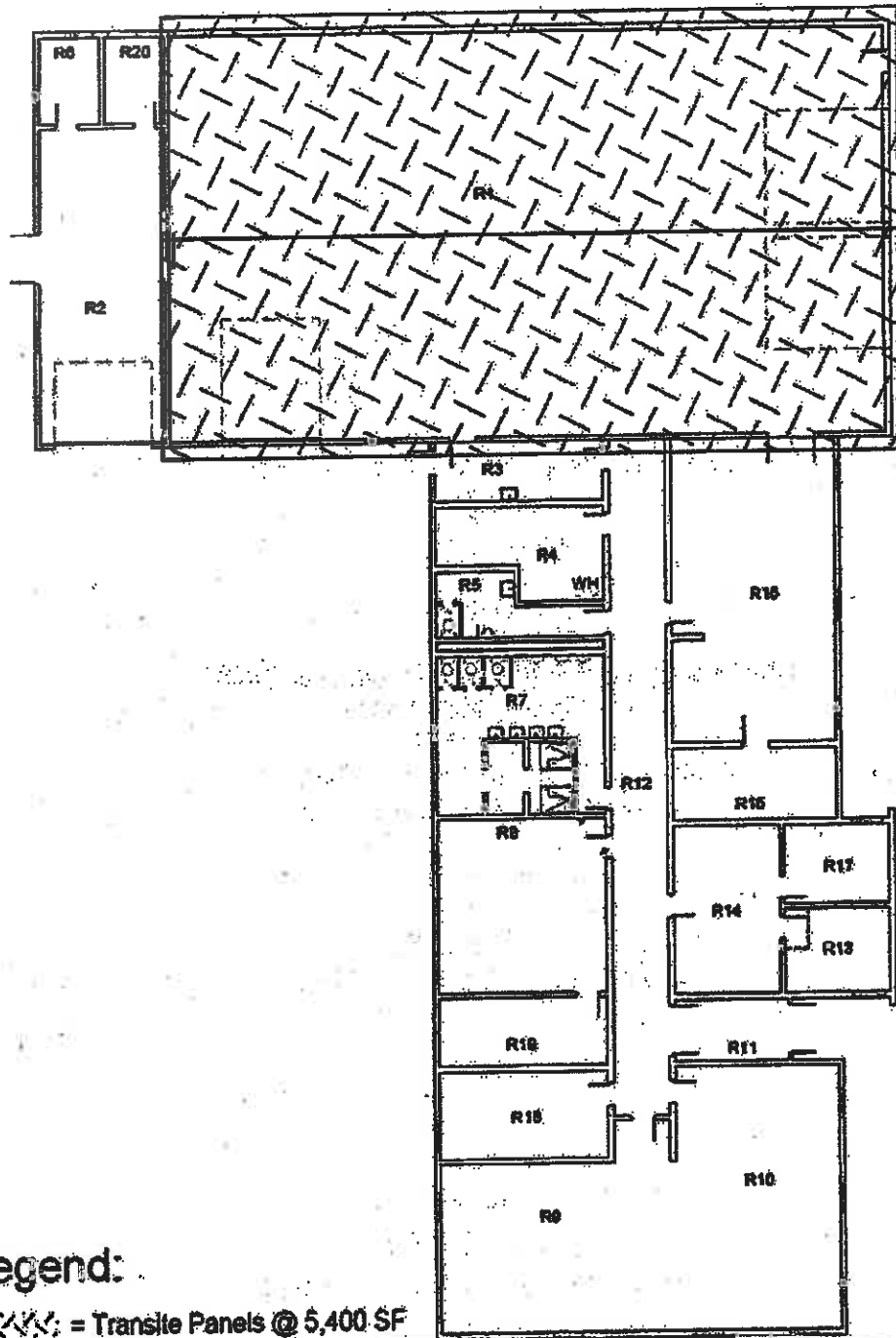
-  Mastic Only ACM
-  Asbestos Piping with Fittings @ 270 LF
-  Wall with ACM Joint Compound @ 800 SF



FIGURE 1
 Asbestos Sample Locations

Project No: ENMISC2393



Legend:

XXXX = Transite Panels @ 5,400 SF

Scale: 1/16"=1'

Oklahoma Department of Environmental Quality
 National Guard Armory
 217 N. Lincoln Street
 Hobart, OK



FIGURE 2
Transite Panel Locations

Project No: ENMISC2393

ATTACHMENT 3

Health & Safety Aspects to Consider

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.***

REFERENCES

Section 1 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

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 Seai®
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

Hobart Armory Window Measurements And Scope of Work

- Window measurements are listed as approximate Width X Height; Contractor to field verify.
- All window bars shall be removed and properly disposed.
- All removed windows shall be properly disposed.
- Windows installed must meet all attached specifications.
- Window installation and oversight of window removal shall be performed by a third party professional window installation company.
 - Window installer shall have no less than five (5) years installation experience.
 - Window installer shall have experience with removal of steel casement windows
- All interior and exterior window sills shall be HEPA vacuumed and wet washed after windows have been removed and replaced.
- Windows will be replaced with General Aluminum Series # 2700 / 2800 Picture Windows (Specifications Attached) or equivalent.
 - All windows will be replaced with opening windows
 - All windows shall have Low E glazing
 - All windows shall have Bronze Finish on frame with powder baked on enamel
- Submit Product Data and Shop Drawings.
- Product Substitution: Substitutions include products differing from those required by this specification.
 1. Submit two (2) copies of each request for product substitution. Identify product to be replaced and provide complete documentation showing compliance of proposed substitution with applicable requirements. Include a full comparison with the specified product, and a list of changes to other Work required to accommodate the substitution.
 2. Submit requests for product substitution in accordance with the time allotted to do so by the Scope of Work included within the Bid Solicitation.
 3. State of Oklahoma, Department of Environmental Quality will review the proposed substitution and notify bidder of its acceptance or rejection within the time allotted to do so by the Scope of Work included within the Bid Solicitation.

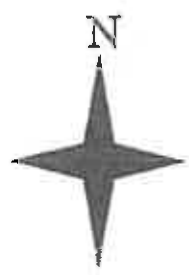
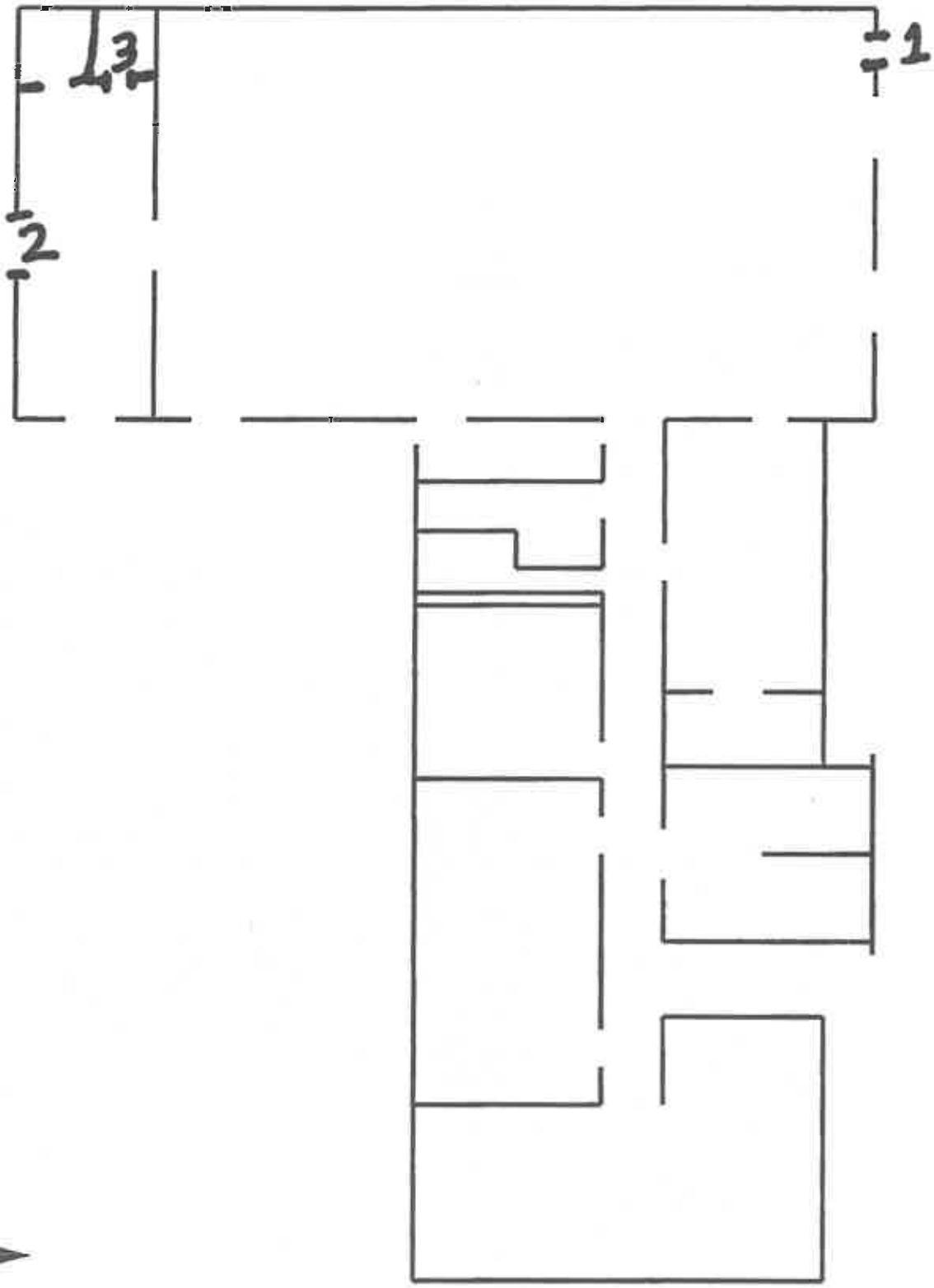
Below are the window locations, amount of windows, and approximate measurements.

- All 15 windows located in Rooms 1, 2, 6, and 20 shall be removed and replaced. Windows measurements are approximately 42" X 36"

ATTACHMENT 6

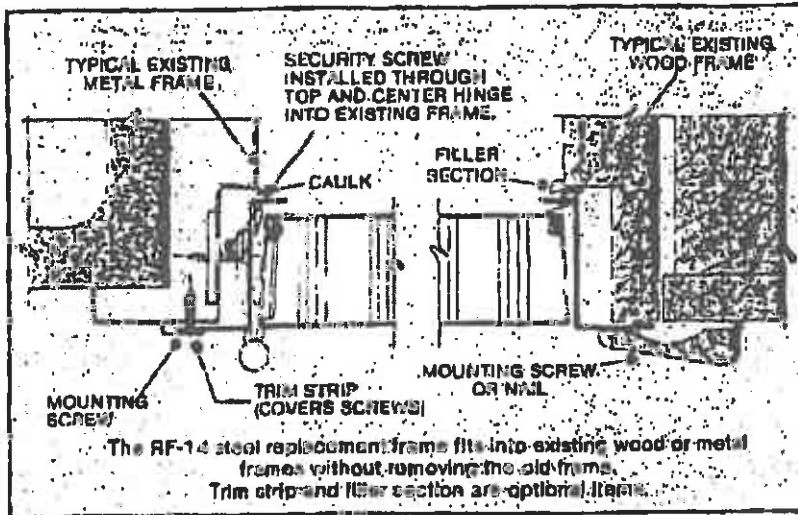
Door Scope of Work Including Measurements and Specifications

Hobart Armory - 1949
Floor Plan

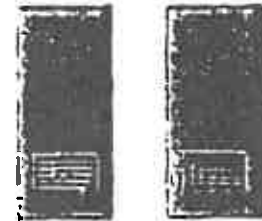
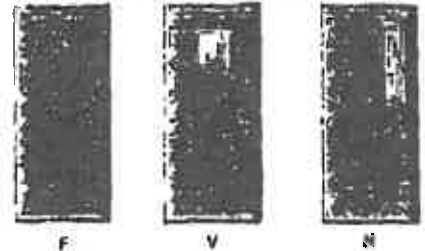


Floor plan not drawn to scale

TYPICAL SECTION



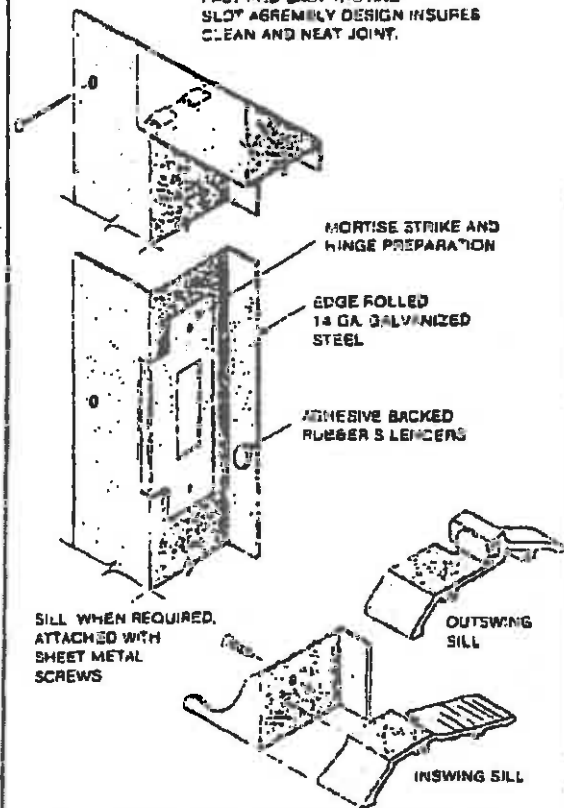
DESIGNS AND FINISHES AVAILABLE



LOUVERS

FRAME DETAIL

KNOCKED DOWN CORNER CONSTRUCTION. FAST AND EASY TAB AND SLOT ASSEMBLY DESIGN INSURES CLEAN AND NEAT JOINT.



FRAME IS FURNISHED WITHOUT SILL AS STANDARD. AN OPTIONAL INSWING OR OUTSWING SILL IS AVAILABLE. WEATHERSTRIPPING ALSO IS AVAILABLE AS AN OPTION.

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 (18 ga. steel).

Doors shall be fabricated from cold rolled steel.

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

Doors shall have vertical mechanical interlocking storm archings and lock edges with visible edge seal.

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 kraft 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.

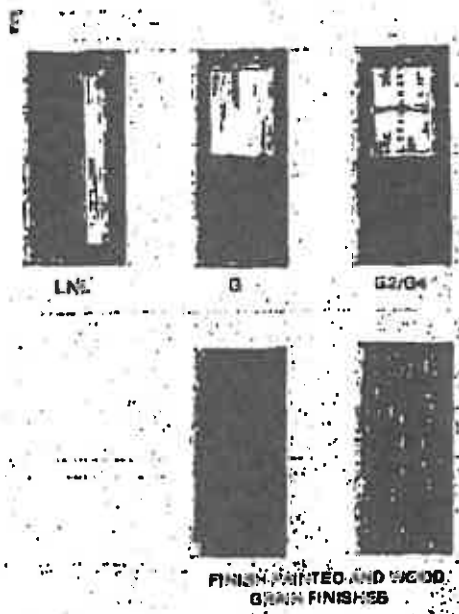
Frames shall be furnished knocked down (KD). Corners shall have tabs for secure and easy interlocking of jambs to head at each corner.

Frames shall be adequately reinforced for all hardware.

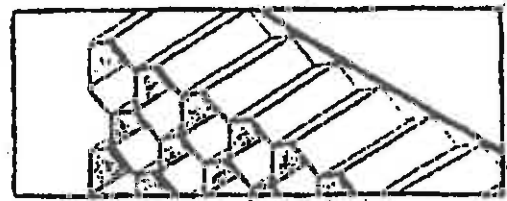
Frames shall be supplied with adhesive backed rubber gaskets, three per strike jamb, two per double door frame head.

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

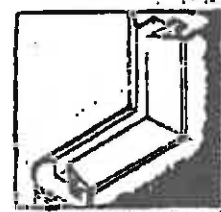
*Single openings are designed to be pre-hung and installed. Units are supplied KD for pre-hanging at job site or by distributor.



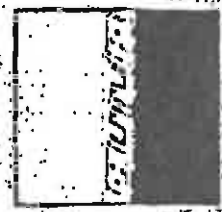
DOOR DETAILS



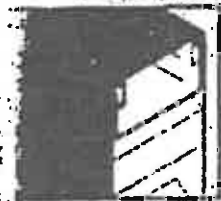
Full honeycomb core of phenolic resin-impregnated kraft paper reinforces the door every 1/4 inch, providing superlative resistance to impact and assuring a flat surface.



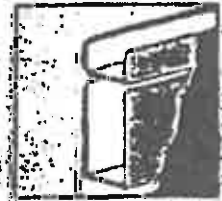
Aluminum glass trim (snap-in.)



8-gage thick hinge reinforcement.



Sharp steel top cap (select for opening.)

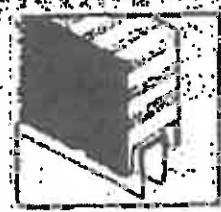


Locking and holding mechanism (select for door type).

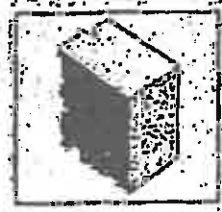
HARDWARE
 Replacement Units shall be prepared for the following hardware:
 Hinges:
 1-1/2 pair of 4-1/2" x 4-1/2" x 134" template hinges
 Lock and Strike:
 Government 15A (ANSI A115.2) cylindrical or Government 8B (ANSI A115.3) mortise lock with an ANSI A115.1 or .2 strike.
 Consult distributor for other hardware preparations.

	NOMINAL SIZE	FRAME SIZE (FINISHED OPENING)		NET DOOR SIZE*		
		WIDTH	HEIGHT	WIDTH	HEIGHT	
SINGLE	2368	31"	79 1/4"	30-13/16"	79 1/4"	
	3068	35"		34-13/16"		
	3868	41"		40-13/16"		
	3888	43"		42-13/16"		
	4058	47"		46-13/16"		
SINGLE	2170	31"	83 1/4"	30-13/16"	82 1/4"	
	3070	35"		34-13/16"		
	3570	41"		40-13/16"		
	3570	43"		42-13/16"		
	4070	47"		46-13/16"		
PAIR	5463	63"	79 1/4"	30-13/16" & 31-13/16"	78 1/4"	
	3088	71"		34-13/16" & 35-13/16"		
	5470	63"		30-13/16" & 31-3/16"		82 1/4"
	3070	71"		34-13/16" & 35-13/16"		

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

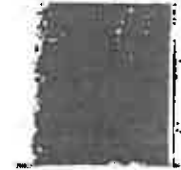


Door bottom with double sweep when required.



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

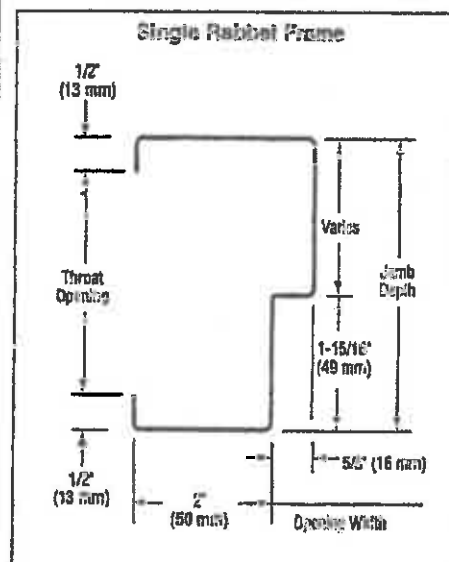
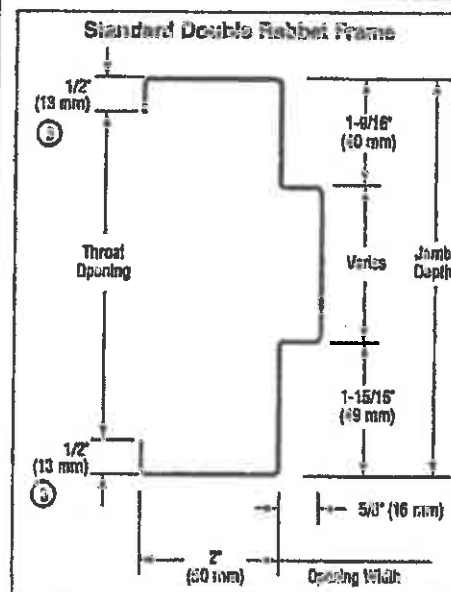
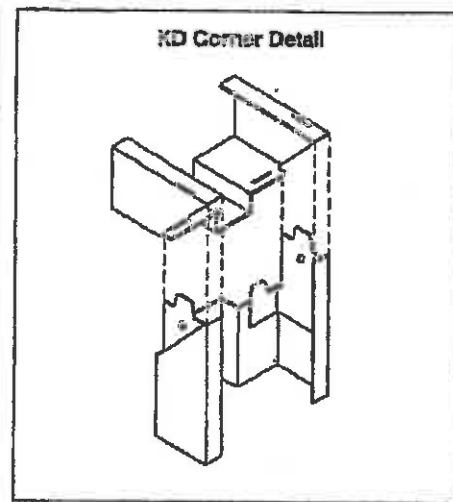
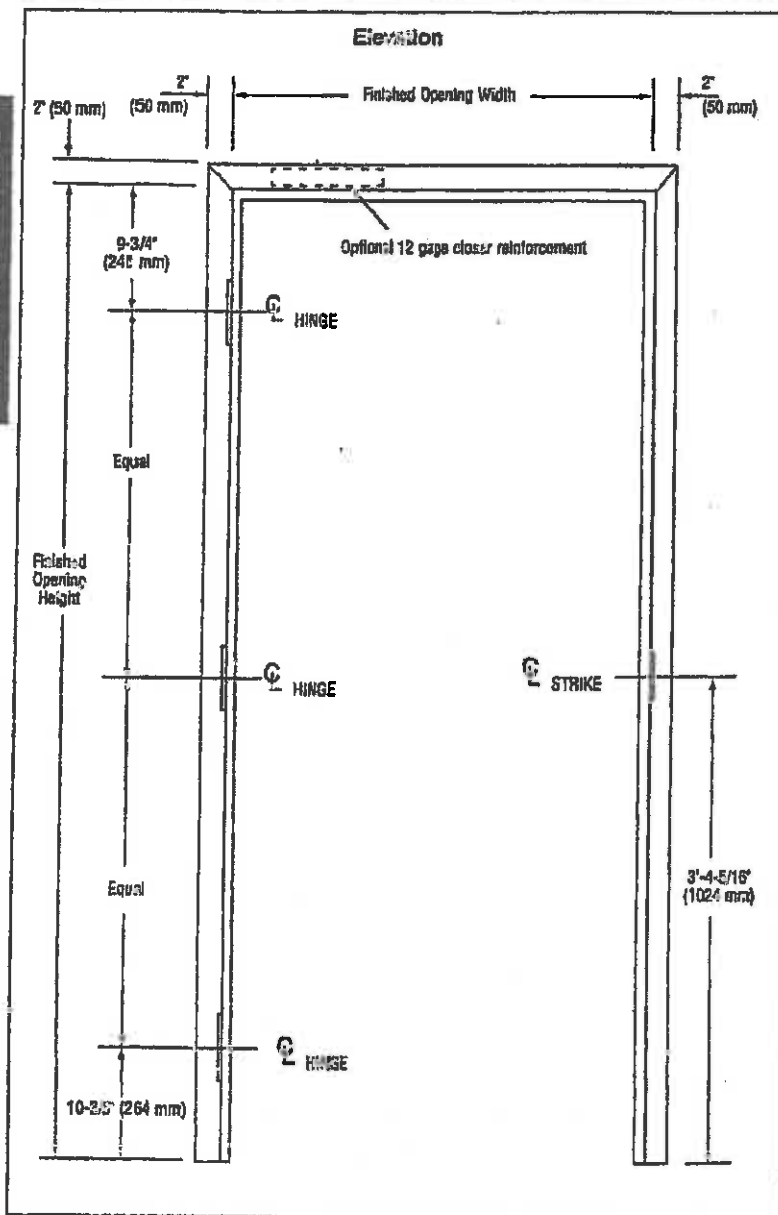
PAIRS OF DOORS



Designs shown may be combined for pairs of doors. Pairs of doors consist of two leaves and a 14 ga. steel 2" astragal bolt mounted to inactive leaf of pair. Inactive leaf may be secured with flush bolts or surface bolts.

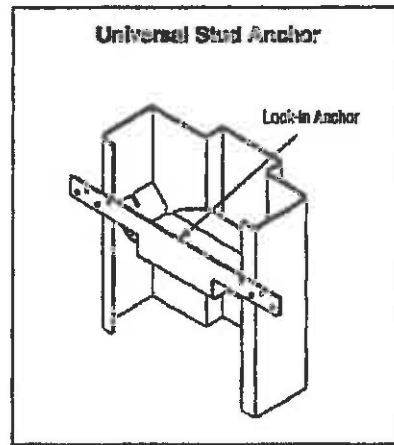
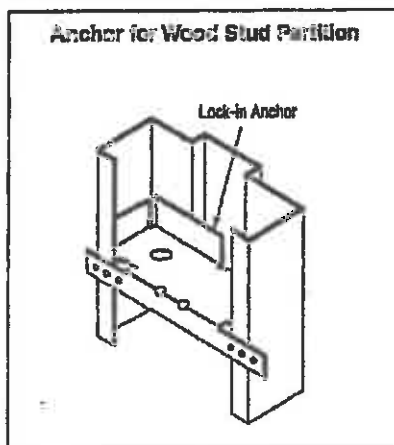
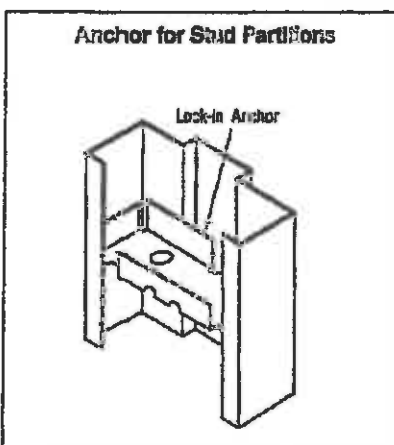
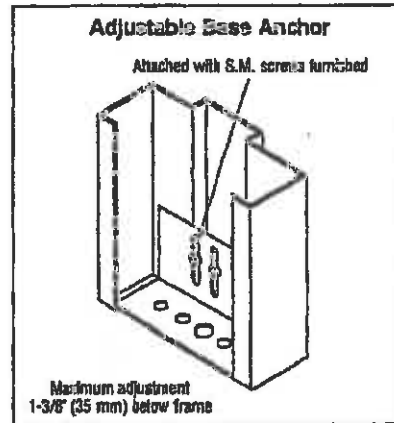
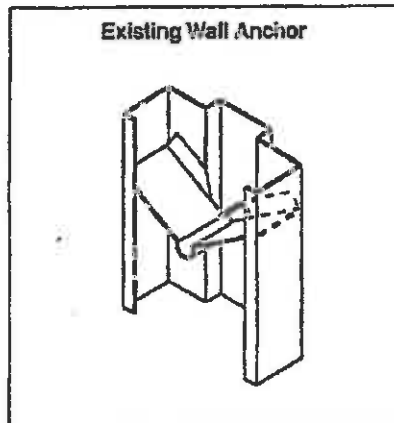
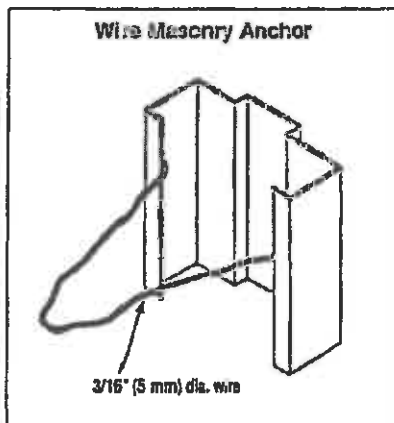
Note: For pairs of doors, right hand will be active, unless specifically ordered.

FLUSH FRAMES



CONSTRUCTION NOTES:

1. 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)
2. Jamb depths (profile) availability:
Single rabbit:
minimum = 3" (76mm)
maximum = 12 3/4" (324mm)
Double rabbit:
minimum = 4 3/8" (121mm)
maximum = 14 3/8" (375mm)
3. 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 7/8" (11mm)
4. Standard die-milled corners:
Four (4) concealed tabs interlocking head and jamb



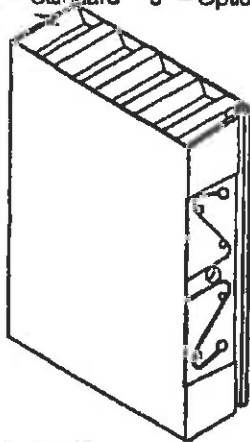
ANCHORING AND INSTALLATION NOTES:

- 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.)

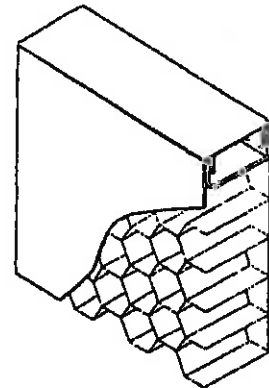
- Special frame anchorages:** Frame anchorage details shown on this sheet are applicable to double rabbet frames with 2" (50mm) flces. Anchorage details and availability of lock-in anchors will vary with the following frame profile changes:
 - Single rabbet – all details will vary.
 - Double rabbet – 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 ANSI/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.

Universal Mortise Hinge Prep
4 1/2" - Standard 5" - Optional

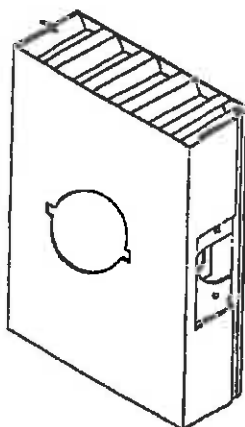


7 Gage Hinge Reinforcement

Optional Snap-In Top Cap

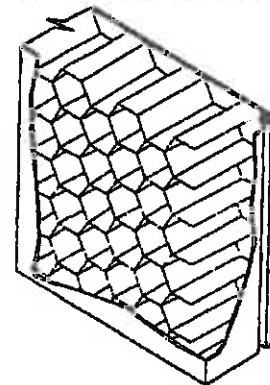


Lock Prep

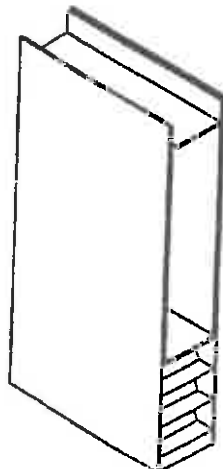


161 Cylindrical Lock shown

Rigid Honeycomb Core



Optional 14 Gage Closer Reinforcement



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:
 - LP - 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, 81L and 86.

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
L18	3	1	Full Flush	Full height, visible mechanical interlocked edge
LF18	3	2	Seamless	L-Series with epoxy filled edge seams
LW18	3	2	Seamless	L-Series with welded edge seams

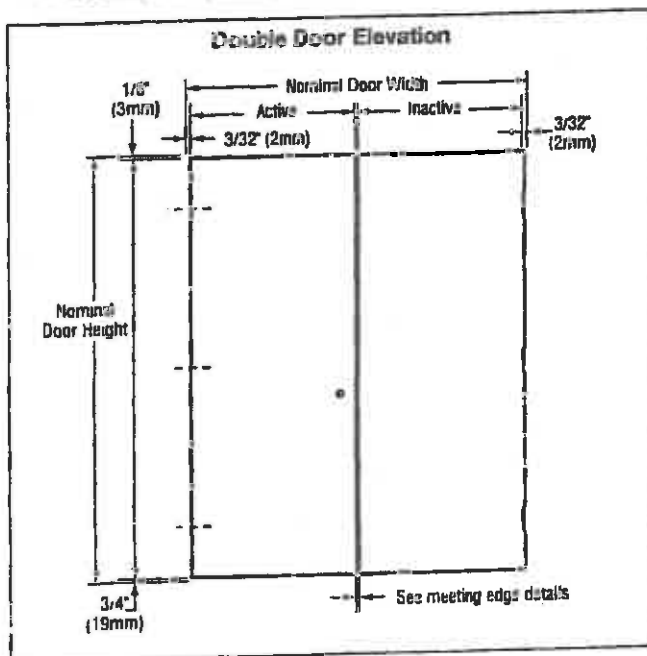
DOUBLE DOOR APPLICATIONS:

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

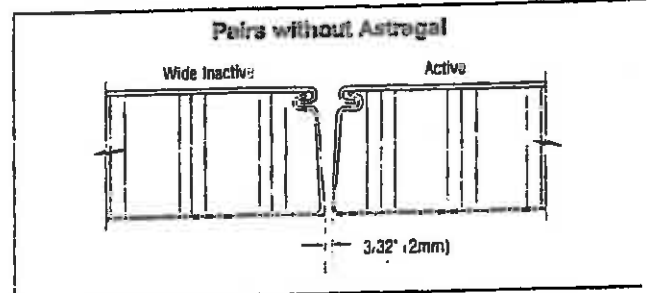
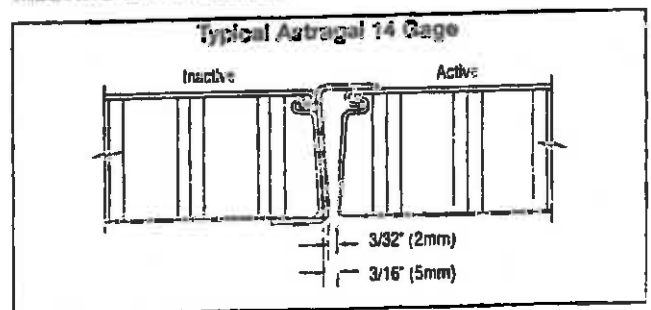
- Standard operating clearances (installed in frame):
 - Head = $\frac{1}{8}$ " (3mm) to bottom of head or transom panel
 - Hinge side = $\frac{3}{32}$ " (2mm) to rabbet on jamb
 - Meeting edges = $\frac{3}{32}$ " (2mm) with or without astragal. For openings without an astragal, a wide inactive leaf is used.
 - Bottom = $\frac{3}{4}$ " (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:





Saddle Thresholds





 All thresholds this page

MATERIALS & FINISHES

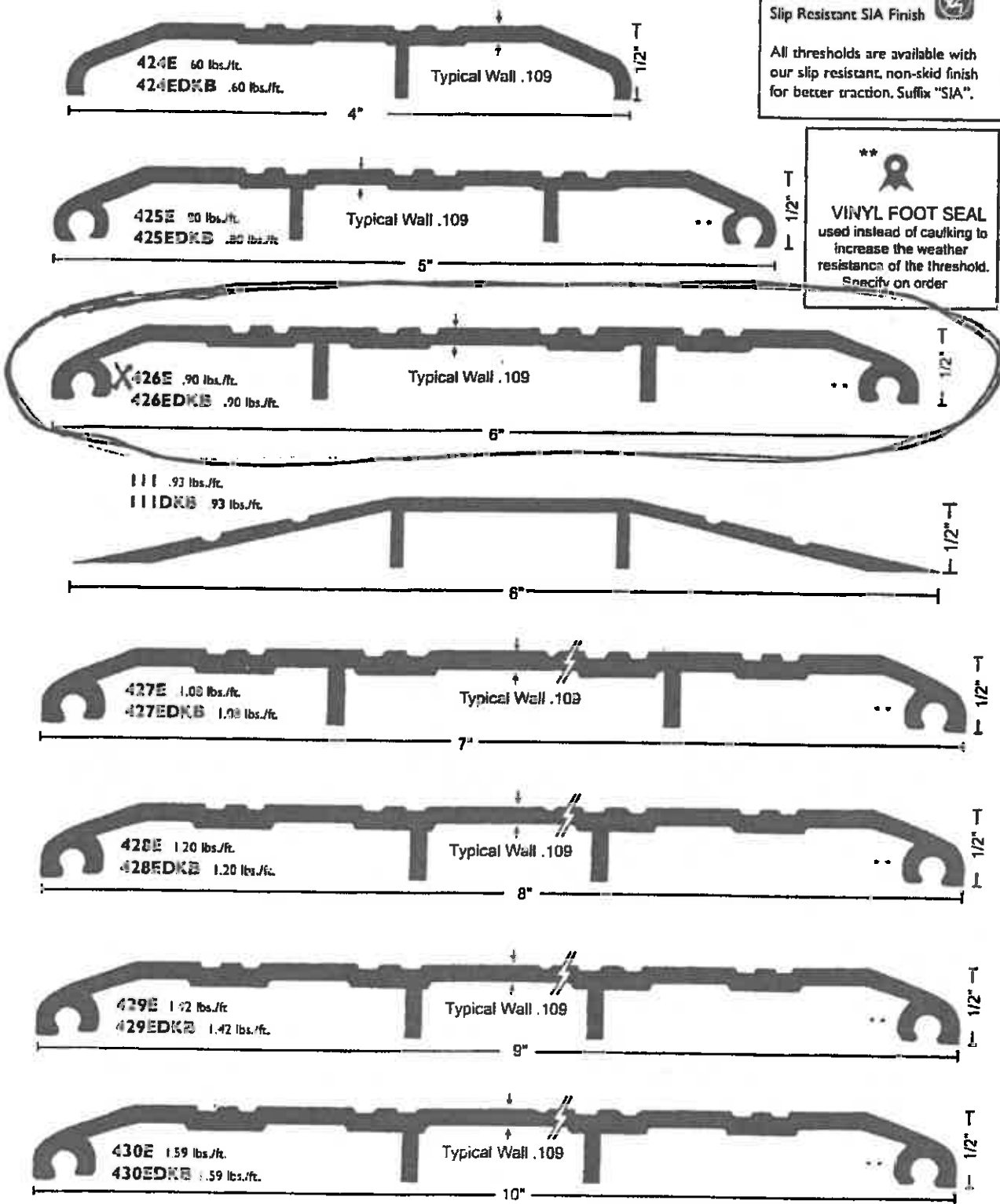
- Aluminum mill finish
- DKB - Aluminum dark bronze finish

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:

All D-Series lever locksets are non-handed.

Door Thickness:

1 1/8" to 2 1/8" (41mm-54mm) standard including Vandlgard® functions.

See accessories (Page 12) for spacers required for 1 3/4" doors.

Backsets:

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

Faceplates:

Brass, bronze or stainless steel. 1 1/2" x 2 1/4" (29 mm x 57mm) square corner, beveled.

Lock Chassis:

Zinc plated for corrosion resistance.

Latch Bolts:

Steel, 1/2" (12mm) throw, deadlocking on keyed and exterior functions. 3/4" (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 1 1/4" x 4 3/4" x 1 3/16" 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:

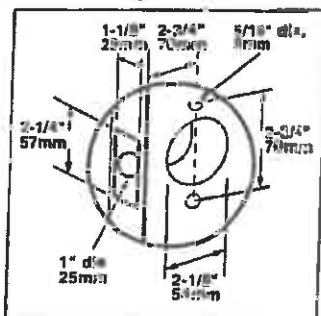
Interchangeable core and Primus® high security cylinders. Master keying, grand master keying and construction keying.

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 Standards)

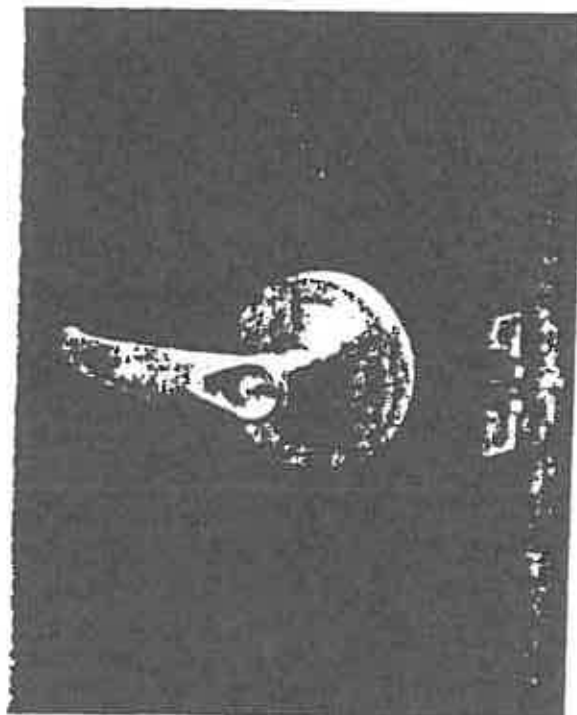
All levers with returns comply; levers return to within 1/2" of door face.

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

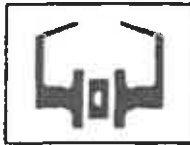
Functions

Non-Keyed Locks

SCHLAGE ANSI

ND10S F75

Passage Latch
Both levers always unlocked.



ND12D F88

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



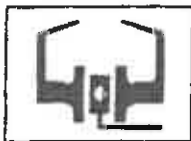
ND12DEL

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.



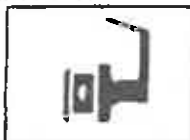
ND12DEU

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.



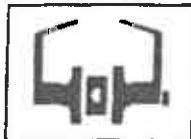
ND25D

Exit Lock
Blank plate outside. Inside lever always unlocked.



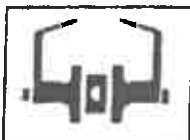
ND40S F78

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



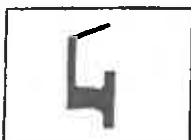
ND44S

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.

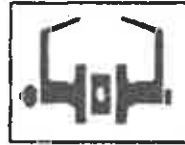


Keyed Locks

SCHLAGE ANSI

ND50PD F82

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



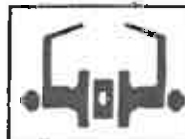
ND53PD F105

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.



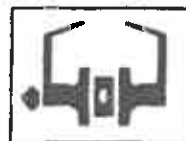
ND66PD F91

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.



* 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.

A SERIES

Designs & Finishes



609

GEORGIAN

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



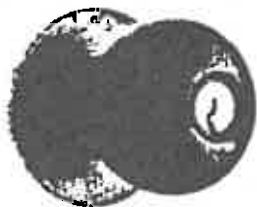
605

LEVON

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



8



613

OREIT

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



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

Finishes

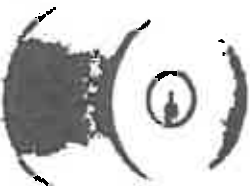
- 605 Bright Brass
- 606 Satin Brass
- 609 Antique Brass
- 610 Bright Brass, Blackened
- 611 Bright Bronze
- 612 Satin Bronze
- 613 Oil Rubbed Bronze
- 615 Antique Bronze
- 625 Bright Chromium Plated
- 626 Satin Chromium Plated
- 629 Bright Stainless Steel
- 630 Satin Stainless Steel



605

PLYMOUTH

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



626

TULIP

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



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

SECTION 07920 - JOINT SEALANTS

PART I - 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-00227E (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. Likewise, remove efflorescence and loose mortar from the joint cavity.

ATTACHMENT 7

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

Hobart Armory Lead and Asbestos Abatement

Addenda #1 – Summary of Changes

1. All pipes with asbestos containing pipe wrap removed shall be re-insulated.
2. Sheetrock removed from Room #8 will not require replacement.
3. The drop ceiling that will be removed from Room #8 to allow for containment during the asbestos abatement process, shall be placed in Room 10 and will not require replacement.

Final Abatement Reports

LEAD & ASBESTOS ABATEMENT REPORT

FOR

HOBART ARMORY

KIOWA COUNTY, OKLAHOMA

Prepared for

**Oklahoma Department of Environmental Quality
Land Protection Division**

Dustin Davidson

707 North Robinson

Oklahoma City, Oklahoma 73102

DCS Project No. 12234

Best Project No. ES-12-044

Site Contact: Dustin Davidson

Field Team Lead: Rick Williams

Prepared by

Basin Environmental and Safety Technologies

325 N Portland Ave

Oklahoma City, OK 73107

(405) 232-5737

September 14, 2012

EXECUTIVE SUMMARY

This is the final report describing the Hobart Armory Asbestos & Lead Remediation performed for the Oklahoma Department of Environmental Quality (ODEQ) at the Hobart Armory located in Kiowa County, Hobart, Oklahoma. Basin Environmental and Safety Technologies (Basin) was contracted by the Land Protection Division of the Oklahoma Department of Environmental Quality (ODEQ) to conduct lead dust remediation activities at the former National Guard Armory in Hobart Oklahoma. This work was performed to provide for unrestricted, safe re-use of the storage areas, classrooms and offices at this facility. Abatement activities included extensive High Efficiency Particulate Air (HEPA) vacuuming, wet wiping, wet scraping, and encapsulation of leaded dust and lead based paint located within the armory. All abatement activities were followed by extensive post-abatement clearance dust sampling and analysis. Abatement and clearance activities took place from July 16, 2012 to August 24, 2012. All remediation processes were performed under the guidance of the ODEQ and in accordance with the Occupational Safety and Health Administration's (OSHA), 29 CFR 1926.62, "Lead in Construction Interim Final Standard" and the National Guard Bureau's "Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges."

Included in this closure report is a detailed summary of work, a copy of the post-remediation confirmation sampling, asbestos air monitoring clearance sampling, and site photos. All post remediation confirmation clearance sampling was performed by Enercon Services, Inc. All post-sealant wipe sample results indicated and confirmed to meet the Environmental Protection Agency (EPA) and Department of Housing and Urban Development (HUD) standards for lead dust.

This final report was prepared by Basin under Verbal Tasking from Dustin Davidson. The ODEQ Site Contact was Dustin Davidson, and the Basin Team Leader was Rick Williams.

- The ODEQ did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Basin Environmental and Safety Technologies has submitted this report absent ODEQ's approval.

- ODEQ has provided final approval of this report. Therefore, Basin Environmental and Safety Technologies have submitted this report with ODEQ approval.

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2.2 BACKGROUND INFORMATION	2-1
3. ABATEMENT ACTIVITIES	2-2
4. CONFIRMATION AND CLEARANCE SAMPLING	2-3

ATTACHMENTS

Attachment A	Copy of Analytical Results for Dust
Attachment B	Copy Non Hazardous Waste Manifest
Attachment C	Copy Harzardous Waste Manifest
Attachment D	Site Photos
Attachment E	Site Floor Plan

1. INTRODUCTION

Basin Environmental and Safety Technologies (Basin) was contracted by ODEQ to provide asbestos abatement on approximately 270 linear feet of Thermo Systems Insulation (TSI), 800 square feet of drywall and joint compound, 430 square feet of category II floor tile and mastic, lead impacted dust, lead based paint and window & door replacement services at the Hobart Armory located at 217 North Lincoln Street, Kiowa County, Hobart Oklahoma. The abatement activity was initiated by ODEQ as part of the Site Cleanup Assistance Program (SCAP) and the Armory Cleanup Program. The EPA and ODEQ target clearance levels for lead in dust and the ODEQ clearance levels for IFRs were utilized for this project (See Attachment A for all analytical results). The clearance level for leaded dust on floors is 40 micrograms per square foot (ug/ft^2). The clearance level for lead dust on floors, walls and ceilings in the IFR post-abatement is $200 \text{ ug}/\text{ft}^2$, post-lockdown treatment clearance levels for the IFR are $40 \text{ ug}/\text{ft}^2$. (See Attachment B for waste manifests).

All workers were trained, fit tested, and medically cleared to wear respirators in accordance with the 29 CFR 1910.134. Medical exams are performed annually under the supervision of a licensed physician.

Throughout the duration of the project, every change in work procedure was preceded by a tailgate safety meeting. Level C PPE (Tyvek Coveralls, Scott or 3M full-face respirator masks with appropriate P100 HEPA filters, and nitrile chemical resistant gloves) and Level D PPE were utilized throughout the project dependant upon the hazards assessment conducted on each process.

Lead dust abatement was accomplished with extensive HEPA vacuuming and Swiffer mopping.

Throughout Remediation the following engineering and administrative controls and waste stream management practices were followed:

- Poly sheeting was used as critical barriers on floors and entry ways to minimize cross contamination.
- Booties were worn by all personnel and changed entering and exiting clean areas.

- **Project areas were delineated as dirty or clean dependant upon the processes and hazards present.**
- **Media collected from the IFR, HEPA Vacuums and appropriate cleaning materials was double bagged in 6 mil poly drum liners, labeled and placed in the stationed roll off box awaiting profile and disposal in an approved hazardous waste landfill.**

1.1 REPORT FORMAT

This report has been organized as follows:

- **Section 1 – Introduction**
- **Section 2 – Site Background**
- **Section 3 – Abatement Activities & Variance**
- **Section 4 – Confirmation and Clearance Sampling**

2. SITE BACKGROUND

Information regarding the site location, description, and history is included in this section.

2.1 SITE LOCATION AND DESCRIPTION

The Hobart Armory site is located at 217 North Lincoln Street, Kiowa County, Hobart Oklahoma. The armory is a Brick and concrete constructed single story building with a concrete slab foundation and asphalt composite flat roof and metal dome roof. Several types of rooms are present within the building including offices, restrooms, & meeting rooms. The flooring of the facility is concrete. The facility was not being ventilated at the time of the abatement activity (See Attachment D for facility photos and Attachment E for a floor plan).

2.2 BACKGROUND INFORMATION

This project is part of the ODEQ's SCAP & Armory Cleanup Program. This program remediates abandoned hazardous waste sites and closed armories throughout the state of Oklahoma.

3. ABATEMENT ACTIVITIES

On July 16, 2012 Basin mobilized to the armory with a Lead Abatement Supervisor, Asbestos Abatement Supervisor and three (3) abatement personnel. Each employee was trained, made familiar with the statement of work and Environmental, Health, & Safety (EH&S) aspects of the project with emphasis on engineering controls, administrative controls, and personal protective equipment (PPE) to minimize employee exposure and cross-contamination. Basin workers began work in level C PPE, installing critical barriers and splash guards in prep for friable and non friable asbestos abatement. Workers then began manually removing carpet, floor tile and mastic in rooms 13, 14, and 17. A closed top roll off box from Basin Environmental was staged outside of the building on the east side near the bay door entry to the drill floor. It was then lined with re-enforced poly preparing it for waste. Workers then finished prepping for the Department of Labor (DOL), regulated friable asbestos installing drop clothes, prepping with asbestos glove bags. Some of the drop down ceiling grids and panels had to be removed to access the asbestos piping. Basin hired a State of Oklahoma licensed electrician to verify all electrical had been de-energized in the building. DOL was contacted to conduct the required prep inspection and Enercon was called to conduct third party personal and area air monitoring. Friable asbestos was removed in accordance with (IAW) the Project Design and disposed in the lined closed box roll off. Asbestos abatement was completed at this armory July 24, 2012. Workers began wet scraping and locking down with DEQ approved elastomeric encapsulant all non-impact, non friction surfaces with LBP. The interior doors in rooms 1, 2, 6 and 20 were removed and wrapped in 6 mil poly and disposed of (IAW) the DEQ scope of work. The exterior door frames in rooms 1 and 2 was scraped down to metal. The frames were primed and painted. The LBP chips from this procedure were stored in UN open top drums until they were profiled and disposed of as Hazardous Waste. All the doors removed were then replaced by a third party installer meeting the vendor criteria for DCS and the ODEQ. Extensive HEPA vacuuming and swiffer mopping was conducted on floors of the entire building from August 1 to August 24, 2012 until demobilization.

4. CONFIRMATION AND CLEARANCE SAMPLING

The Oklahoma Department of Environmental Quality contracted Enercon Services Inc. as a third-party partner for clearance sampling. The results from these sampling events can be found in (Attachment A).

ATTACHMENT A



2039 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuanTEM Set ID: 212057
Date Received: 08/30/12
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 8/30/2012

Client: State of Oklahoma
 DEQ Land Protection
 Attn: Dustin Davidson
 707 N. Robinson
 Oklahoma City, OK 73102
Acc. No.: B486
Project: Hobart Armory
Location: Hobart 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	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
002	2	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
003	3	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
004	4	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
005	5	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
006	6	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
007	7	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
008	8	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
009	9	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
010	10	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
011	11	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
012	12	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
013	13	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
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015	15	Wipe	Lead	31.2	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
016	16	Wipe	Lead	32.7	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
017	17	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	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



2030 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Environmental Chemistry Analysis Report

QuantEM Set ID: 212067
Date Received: 08/30/12
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 8/30/2012

Client: State of Oklahoma
DEQ Land Protection
Attn: Dustin Davidson
707 N. Robinson
Oklahoma City, OK 73102
Acct. No.: B486
Project: Hobart Armory
Location: Hobart 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	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
019	19	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
020	20	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
021	21	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
022	22	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
023	23	Wipe	Lead	26.9	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
024	24	Wipe	Lead	26.2	16	ug/sq. Ft.	08/30/12 14:35	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 7002 (2) = EPA 600/R-93/200 Preparation Modified. EPA 7002 Analysis Modified



www.quantem.com

LEAD CHAIN OF CUSTODY

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

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Company: DEQ	Contact: Dustin Davidson	Account #:
Phone: 405-702-5115	Cell Phone: 317-429-2222	Email: dustin@quantem.com
Project Name: Hobart Armory	Project Location: Hobart, OK	Project ID: 8/29/12
Project Information:	Project Information:	Project Information:

Requested by: Dustin Davidson	DATE/TIME: 8/29/12
Relinquished by: Dustin Davidson	DATE/TIME: 8/30/12 11:55
Received by: [Signature]	DATE/TIME: 8/30/12 11:55

No.	Sample ID (To client reference)	Sample Description	Volume (Liters)	Volume Area (Length x Width)	Analysis					Units (if ONE box only)	Sample Matrix Codes	
					Pb	PPM	Mg/l	ug/Rz	ug/m ²			Mg/cm ²
1	1-24			12' x 12'								
2	2											
3	3											
4	4											
5	5											
6	6											
7	7											
8	8											
9	9											
10	10											
11	11											
12	12											

Turnaround Time:	Same Day
	24-Hour
	3-Day
	5-Day

Supplemental Report QAQC Results

QA ID: 10299
Test: Lead

Date: 8/30/2012
Matrix: Wipe

Lab Number: 212067
Approved By: Benton Miller
Date Approved: 8/30/2012

Notes:

Blank Data:

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

Standards Data:

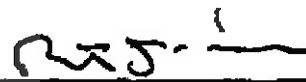
Standard	Low Limit	Obtained	High Limit
CCV	4.5	5.2	5.5
FCV	4.5	4.8	5.5
ICV	0.9	1	1.1
RLVS	0.256	0.289	0.384

Duplicate Data:

Recovery Data:

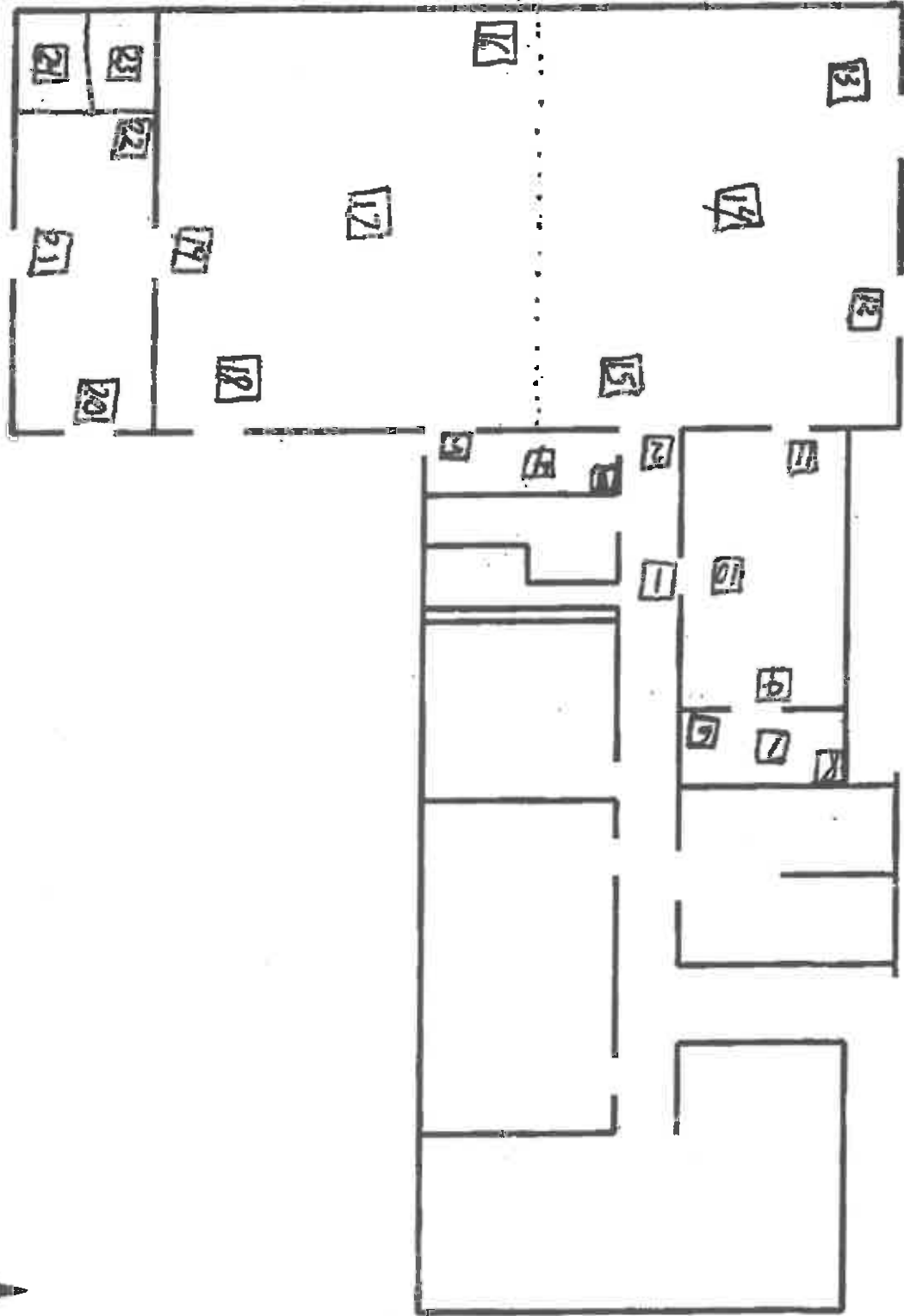
Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W2	0.000	5.230	4.832	92.4	4.872	93.2	0.8
MS-W1	0.000	5.136	5.528	107.6	5.556	108.2	0.5

Authorized Signature: _____



Benton Miller, Analyst

Hobart Armory - 1949
Floor Plan



Floor plan not drawn to scale

ATTACHMENT B



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

38720

WASTE CONNECTIONS INC.
Company No. 4 has been deleted

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete only Sections I, II and III

No. 2490

Section I GENERATOR (Generator completes all of Section I)

a Generator Name OCFC b Generating Location Hubert Highway
 c Address 707 N Robinson, Oklahoma City, Oklahoma 73107 d Address 705 N Lincoln St, Hobart, Ok 73107
 e Phone No (405) 302-5114 f Phone No _____
 If owner of the generating facility differs from the generator, provide
 g Owner's Name _____ h Owner's Phone No _____

i WCA WASTE CODE

OK	CL	-	12	-	342				
----	----	---	----	---	-----	--	--	--	--

 j Description of Waste Asbestos k Quantity 20 Y Units Y Containers No 1 TYPE _____

TYPE	
OM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 8 MIL PLASTIC BAG or WRAP
T	- TRUCK
G	- OTHER
UNITS	
P	- POUNDS
Y	- YARDS
M	- CUBIC METERS
Y	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations, AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261

Generator Authorized Agent Name Jill Puryear Signature [Signature] Shipment Date 09/28/00

Section II TRANSPORTER (Generator completes a-d, Transporter I completes e-g, Transporter II completes h-j)

TRANSPORTER I
 a Name Basin Environmental
 b Address 3120 S. Meridian Oklahoma City, OK 73119
 c Driver Name/Title [Signature]
 d Phone No (405) 232-5737 e Truck No 115
 f Vehicle License No./State OK 5800
 Acknowledgment of Receipt of Materials
 g Driver Signature [Signature] Shipment Date 09/28/00

TRANSPORTER II
 h Name _____
 i Address _____
 j Driver Name/Title _____
 k Phone No. _____ l Truck No. _____
 m Vehicle License No./State _____
 Acknowledgment of Receipt of Materials
 n Driver Signature _____ Shipment Date _____

Section III DESTINATION (Generator completes a-c, destination site completes d-f)

a Site Name Oklahoma City Landfill c Phone No. (405) 745-3002
 b Physical Address 7600 SW 15th Street Oklahoma City, OK 73128 d Mailing Address Oklahoma City Landfill 7600 SW 15th Street Oklahoma City, OK 73128
 e Discrepancy Indication Space _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate
 Name of Authorized Agent [Signature] Signature [Signature] Receipt Date 09/28/00

Section IV ASBESTOS (Generator completes a-d, Shipper completes e)

a Shipper's Name _____ b Shipper's Phone No _____
 c Shipper's Address _____
 d Shipper's Special Handling Instructions and additional information _____

CERTIFICATION I hereby declare that the contents of this consignment are fully and accurately described above by 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

e Shipper's Name & Title _____ b Shipper's Phone No _____
 f Name and Address of Responsible Agency _____ Date _____

g Friable; Non-friable; Both _____ % friable _____ % nonfriable
 *Shipper refers to the company which owns, leases, operates, controls or supervises the facility being demolished or renovated, or the demolition or renovation operation, or both.
 WCI006 (Rev. 11/17)
 White - Destination Retain Green - Return to Generator Canary - Return to Operator Pink - Transporter Retain Goldenrod - Generator Retain

ATTACHMENT C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) HAZARDOUS WASTE REPORTING AND RECORDING REGULATIONS (40 CFR 262.27(a) and (b))

E
ELECTRONIC
RECORDING

Order #: 80871
Form Approved, OMB No. 2030-0039

Please print or type. (Form designed for use on effie (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number OKPD410132268 / 00040	2. Page 1 of 1	3. Emergency Response Phone See Section 14	4. Manifest Tracking Number 001925179 GBF
5. Generator Name and Mailing Address ODEC-HOWAR National Guard Armory (Howa County) Oklahoma Dept of Environmental Quality, 707 N. Robinson - P.O. Box 1677 Oklahoma City, OK 73101		Generator's Site Address (if different than mailing address) 716 N Lincoln Street Hobart, OK 73651		
6. Generator's Phone: 405-232-5737 ATTN: Jess Curry		Generator's Phone: 405-232-5737	State ID#: OK	U.S. EPA ID Number OKR000029085
7. Transporter 1 Company Name Basin Environmental		Phone: 405-232-5737	State ID#: OK	U.S. EPA ID Number TXR000051508
7. Transporter 2 Company Name Effective Environmental, Inc.		Phone: 472-329-4280	State ID#: TX-47150029-H-1361	U.S. EPA ID Number TXD089452340
8. Designated Facility Name and Site Address US Ecology Texas 3.5 miles S on Petronia Road Robstown, TX 78380		Facility's Phone: 800-242-3200	State ID#: 50352	U.S. EPA ID Number TXD089452340

10. Carriers	11. Total Quantity	12. Unit Weight	13. Waste Codes
1. RQ. Hazardous waste, solid, n.o.s. (D008, point clips and debris with Lead), RAS077, PG 18, ERG 171,	55	G	CUT83 8H
2.			
3.			
4.			

14. Special Handling Instructions and Additional Information
01: Lead based point clips / Lead contaminated debris (PF-09-007-785) * EMERGENCY RESPONSE PHONE: 214-036-1000 *
ON CALL SUPERVISOR

15. GENERATOR'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 in accordance with the applicable international and national governmental regulations. I accept 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 identification statement identified in 40 CFR 262.27(a) (1) or (2) is a large quantity generator or (b) (1) or (2) is a small quantity generator is true.

16. Generator's Signature: *[Signature]* Date: **9/16/12**

17. Transporter Acknowledgment of Receipt of Materials
 Transporter 1 (Printed Name): *[Signature]* Date: **9/16/12**
 Transporter 2 (Printed Name): *[Signature]* Date: **9/16/12**

18. Discrepancy Indication Space
 Quantity Type Residue Partial Rejection Full Rejection

19. Designated Facility (for Generator)
 Facility's Name: **US Ecology Texas** U.S. EPA ID Number: **TXD089452340**
 Facility's Phone: **800-242-3200**
 Signature of Abandon Facility (or Generator): *[Signature]* Date: **9/16/12**

20. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
 01: **H133**

21. Designated Facility Owner or Operator: Certificate of receipt of hazardous materials covered by the manifest except as noted in item 19b
 Printed Name: *[Signature]* Date: **9/16/12**

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

ATTACHMENT D









09/05/2006











09/05/2006



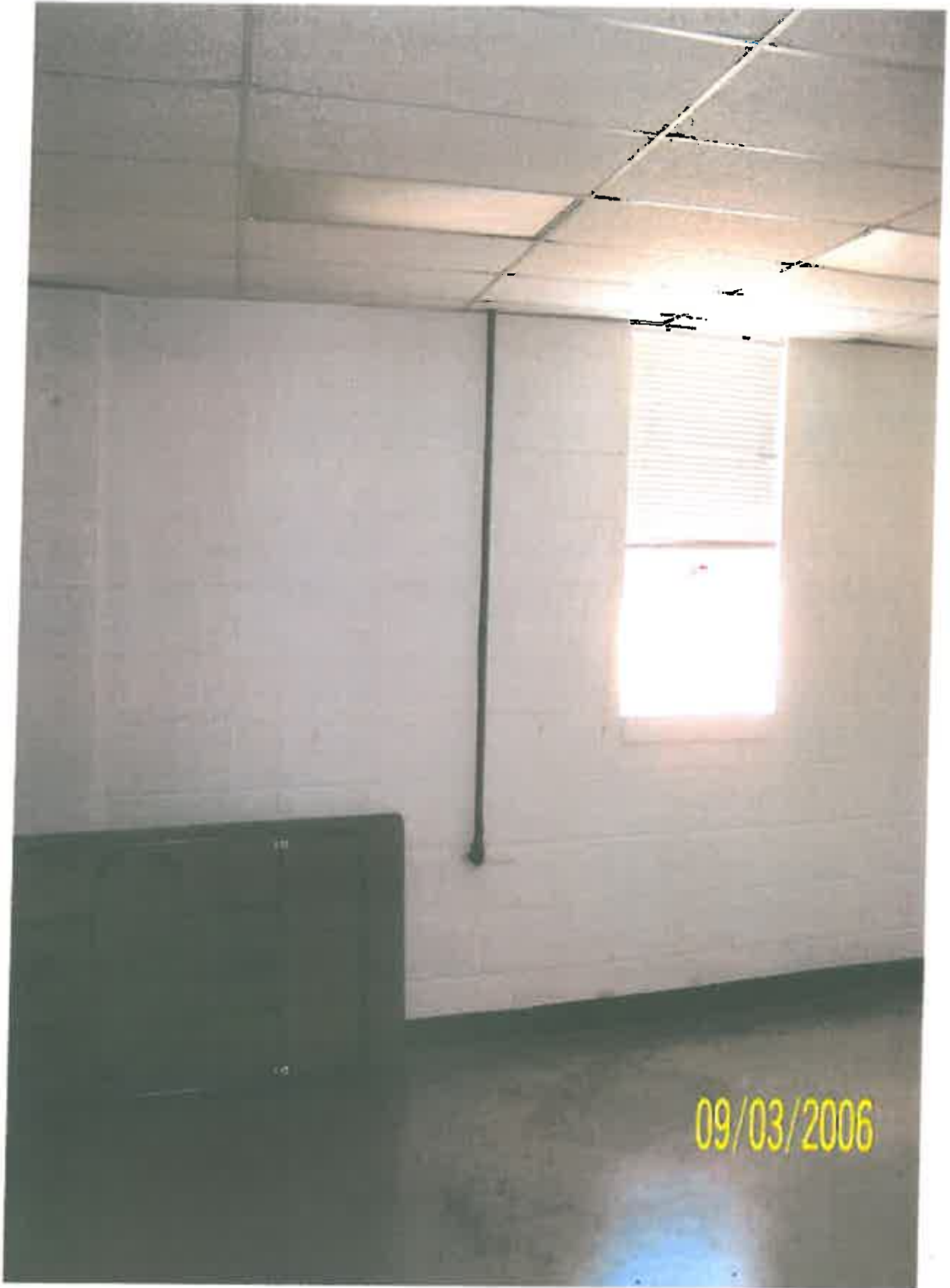


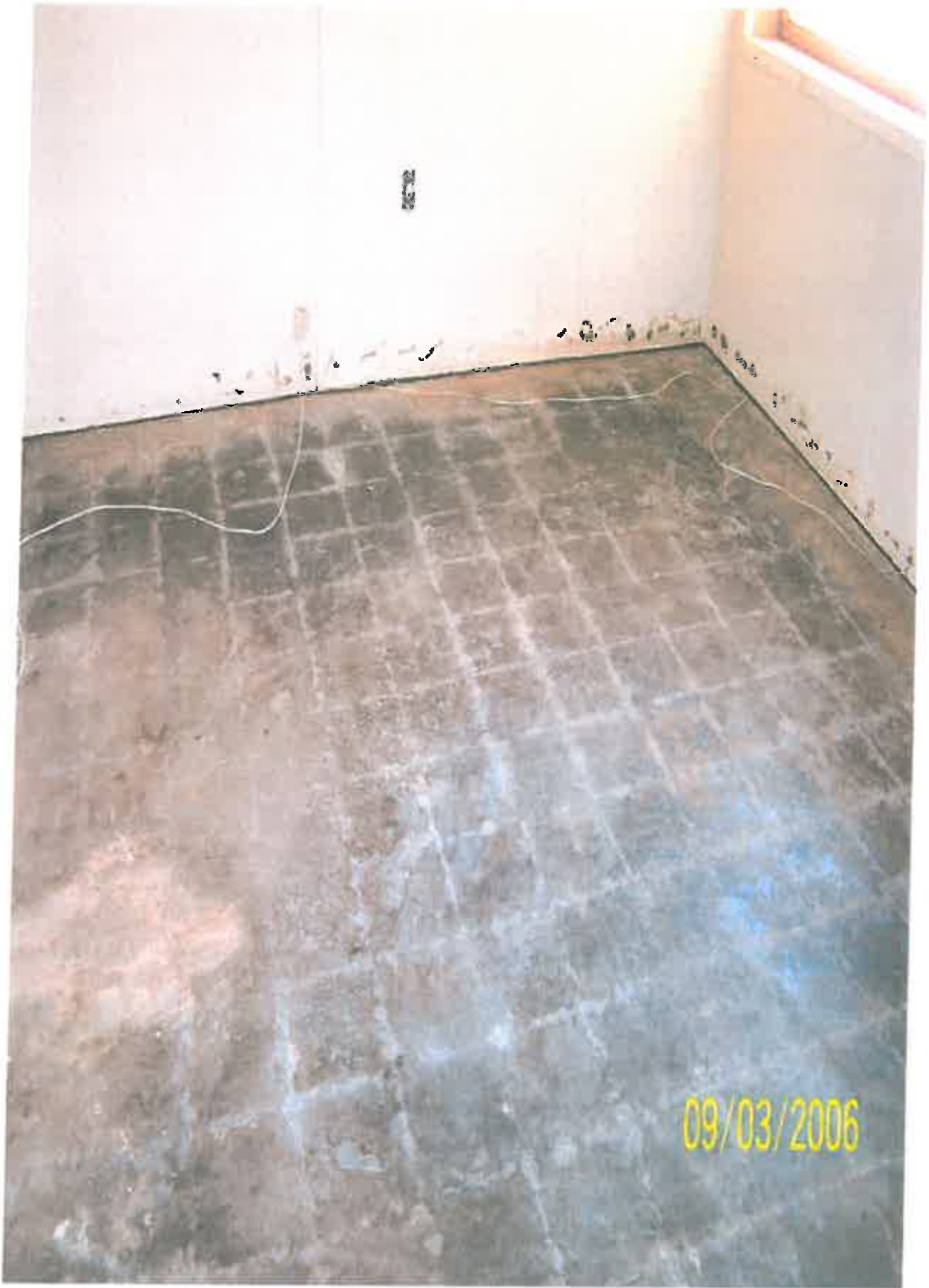
09/03/2006





09/03/2006







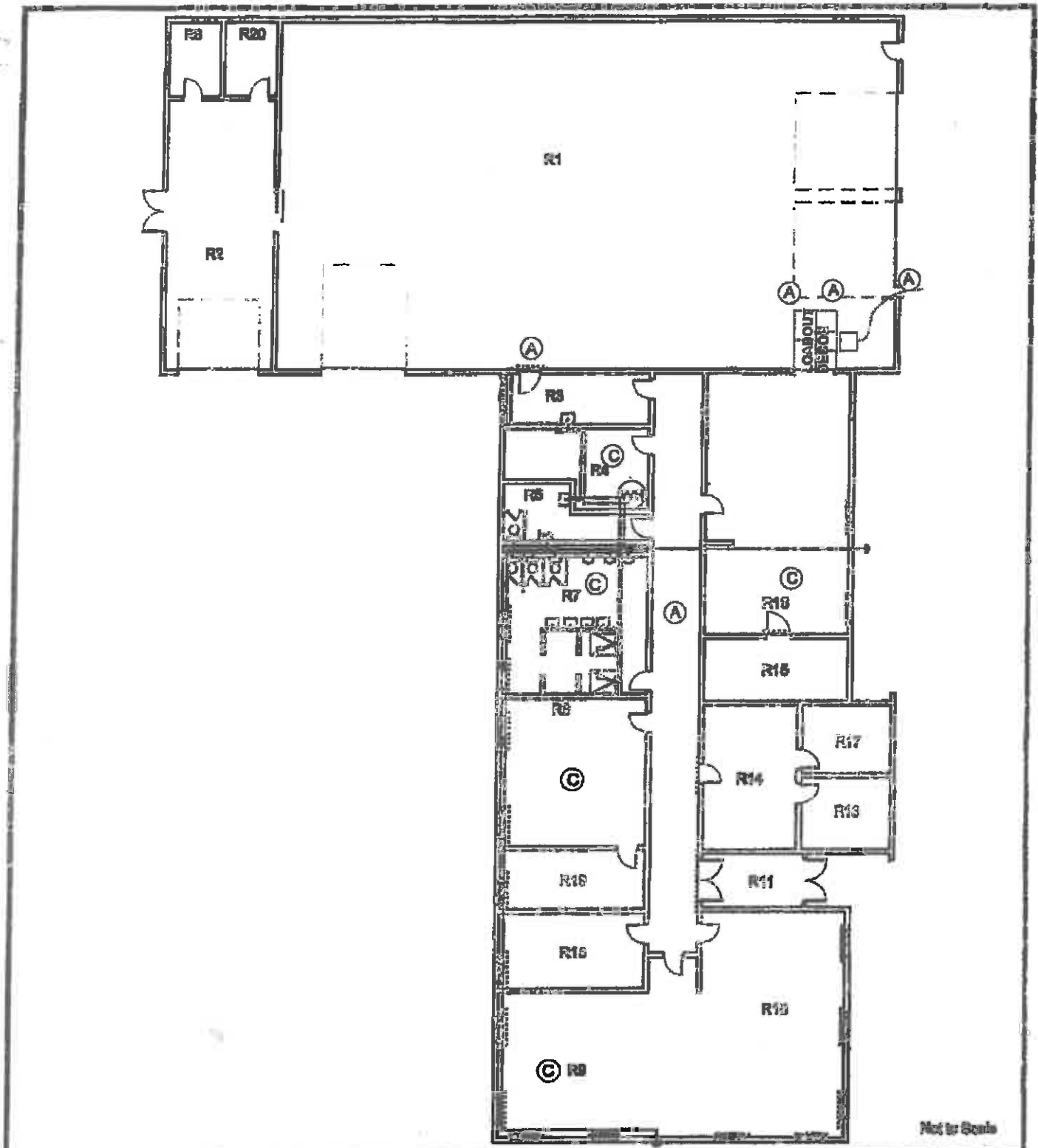








ATTACHMENT E



Hobart Armory
215 N Lincoln Street

Legend:

- Pipe and Flange with asbestos insulation
- Critical barrier
- (A) Area air monitor
- (C) Clearance air sample



Project Design Layout

Project: Hobart Armory-Task 1

Confirmation Sampling

CONFIRMATION SAMPLING RESULTS

The Department of Environmental Quality (DEQ) personnel sampled the Hobart Armory for lead dust to confirm room floors were below the Housing and Urban Development (HUD) standard of 40 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) for child occupied facilities after all lead-based paint and lead dust abatement was complete. Below is a summary of the sample event and results.

On August 29, 2012, DEQ personnel sampled the floors of the building where lead-based paint abatement was completed and where lead dust was elevated before abatement was performed. Below is a summary of the results. Sample results are attached (**Attachment 1**).

- All samples were below 40 $\mu\text{g}/\text{ft}^2$

ATTACHMENT 1

AUGUST 29, 2012 SAMPLE RESULTS



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

Environmental Chemistry Analysis Report

Quantem Set ID: 212067
Date Received: 08/30/12
Received By: Sherrie Leftwich
Date Sampled:
Time Sampled:
Analyst: BM
Date of Report: 8/30/2012

Client: State of Oklahoma
 DEQ Land Protection
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Acct. No.: B486
Project: Hobart Armory
Location: Hobart Armory
Project No.: N/A

AIHA ID: 101352

Quantem ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
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AIHA ID: 101352

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018	18	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
019	19	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
020	20	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
021	21	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
022	22	Wipe	Lead	<16.0	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
023	23	Wipe	Lead	26.9	16	ug/sq. Ft.	08/30/12 14:35	W NIOSH 9100
024	24	Wipe	Lead	26.2	16	ug/sq. Ft.	08/30/12 14:35	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.

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: 10299
Test: Lead

Date: 8/30/2012
Matrix: Wipe

Lab Number: 212067
Approved By: Benton Miller
Date Approved: 8/30/2012

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	5.2	5.5
FCV	4.5	4.8	5.5
ICV	0.9	1	1.1
RLVS	0.256	0.289	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	5.230	4.832	92.4	4.872	93.2	0.8
MS-W1	0.000	5.136	5.528	107.6	5.556	108.2	0.5

Authorized Signature: _____



Benton Miller, Analyst



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For Lab Use Only
Lab No. <u>212067</u>
Accept <input checked="" type="checkbox"/> Reject <input type="checkbox"/>
Report Results (<input checked="" type="checkbox"/> one box)
QuantEM Website
Other

Contact Information		Project Information	
Company: <u>DEQ</u>	Phone: <u>405-702-5115</u>	Project Name: <u>Hobart Armory</u>	
Contact: <u>Dustin Davidson</u>	Cell Phone: <u>317-4292</u>	Project Location: <u>Hobart, OK</u>	
Account #:	E-mail: <u>Dustin.davidson@deq.ok.gov</u>	Project ID:	

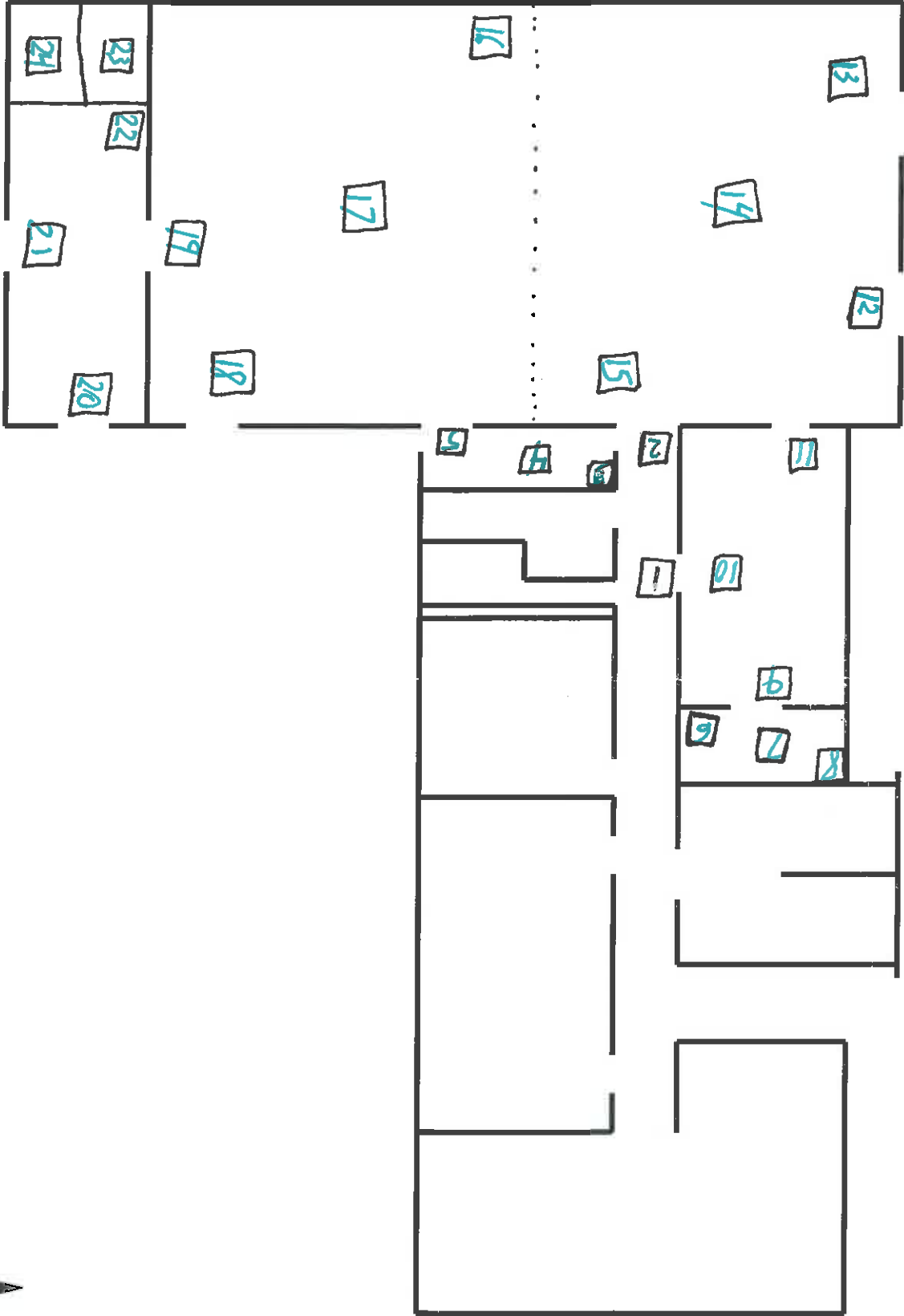
Sampled By: <u>Dustin Davidson</u>	Name: <u>Dustin Davidson</u>	Date: <u>8/29/12</u>
RELINQUISHED BY: <u>Dustin Davidson</u>	DATE & TIME: <u>8/30/12 11:55AM</u>	VIA: <u>J. Muelle</u>
	RECEIVED BY:	DATE & TIME: <u>8/30/12 11:55</u>

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 <small>(see matrix code box)</small>	Analysis					Sample Matrix Codes	
						PPM	mg / l	µg / ft ²	µg / m ³	mg / cm ²		Units (<input checked="" type="checkbox"/> ONE box only)
1	<u>1-24</u>			<u>12" x 12"</u>	<u>C</u>	<u>X</u>						A Soil
2	<u>02</u>											B Paint Chips
3	<u>03</u>											C Surface / Dust Wipes
4	<u>04</u>											D Bulk Miscellaneous
5												E Air Cassette
6												
7												
8												
9												
10												
11												
12												

TURNAROUND TIME	
Same Day	
<u>X</u> 24 - Hour	
3 - Day	
5 - Day	

Hobart Armory - 1949

Floor Plan



Floor plan not drawn to scale