

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING(S):

81, 83, 85, 87, 89, 90, 103, 105, 106, 107



**LEAD-BASED PAINT SURVEY
 REPORTS FOR DRENNEN FAMILY HOUSING UNITS
 FORT McCLELLAN, ALABAMA**

Introduction

1. This is the Lead-Based Paint (LBP) field survey report for the Drennen Family Housing Units located at Fort McClellan, Alabama. This report documents the LBP field results for the ten units surveyed (Quarters No. 81, 83, 85, 87, 89, 90, 103, 105, 106, 107). A map, showing the locations of the units surveyed for LBP, appears as Plate 1.

2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The surveys were performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.

3. The LBP survey results for the ten housing units tested appears in numerical order (by unit no.) in the appendix. A brief summary of the areas testing positive for LBP and a photograph of the buildings are provided. The actual field XRF readings and the unit floorplan, showing the locations where positive XRF readings occurred, also appears in the appendix.

4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

⁽¹⁾ The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

⁽²⁾ **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2

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5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in the field XRF data. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell XRF reading be used for assigning positive determination.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. The Drennen Family Housing units are built of identical construction materials, however, they have two different floorplans (three bedroom and four bedroom plans). They are all one story concrete structures with a full basement. They have wood frame windows, wood upper trim and aluminum storm windows. The interior walls and ceilings are plaster and all trim components are wood. These units were reportedly built in 1930.

8. A total of seven-hundred and eleven (711) XRF measurements were made at the ten Drennen Housing units surveyed. One-hundred and sixty-three (163) of those readings were determined to be positive for lead-based paint. Thirteen (13) of the one-hundred and seventeen (117) exterior readings were positive for LBP. One-hundred and fifty (150) of the five-hundred and ninety-four (594) interior readings were positive. The XRF results are summarized in Table 1. It lists the number of similar surfaces and components tested in separate categories. It also includes the number of positive XRF readings and percentages of positives tests in each category.

Interior Summary

9. The interior construction of the Drennen Housing units is similar. Judging by the XRF measurements, there seems to be two different painting histories in the ten houses surveyed. There is a distinctive difference in the readings obtained in units 81, 83, 85, and 87, as compared to those of 89, 90, 103, 105, 106, and 107. In the appendix, the individual summaries for each unit will clarify this issue. Refer to each unit floorplan for specific locations where positive XRF readings occurred.

Exterior Summary

10. The painted exterior surfaces of the Drennen Housing units also seem to have two different painting histories. Unit Nos. 81, 83, 85, and 87 all had positive levels of leaded paint on the upper trim, siding above the front porch, and some of the door components. No lead-based paint was detected on the exterior surfaces of Units 89, 90, 103, 105, 106, and 107.

Paint Condition

11. The interior paint in the Drennen houses was generally in good condition. Poor leaded paint conditions were noted on the exterior trim and siding of units 81, 83, and 87.

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TABLE 1

COMPONENT SUMMARY CHART FOR DRENNEN HOUSING QUARTERS

COMPONENTS TESTED	NUMBER TESTED	NUMBER POSITIVE	PERCENT POSITIVE
<u>EXTERIOR COMPONENTS:</u>			
EXTERIOR SIDING & WALLS	18	3	17
EXTERIOR TRIM (Facia, Soffits, Cornerboards)	21	4	19
EXTERIOR WINDOWS (Sills, Frames, Casings)	25	2	8
EXTERIOR DOORS (Headers, Casings, Frames)	12	3	25
PORCH (Frame, Trim, Floor)	37	0	
EXTERIOR MISCELLANEOUS	4	1	25
<u>INTERIOR COMPONENTS:</u>			
INTERIOR WINDOWS (Sills, Frames, Casings)	91	18	20
INTERIOR TRIM (Baseboards, Crown & Chair Molding)	90	51	57
INTERIOR DOORS (Headers, Casings Frames)	17 3	48	28
INTERIOR WALLS	86	14	16
INTERIOR CEILINGS	51	3	6
STAIRS (Steps, Stringers, Risers, etc.)	18	5	28
SHELVES and SHELF SUPPORTS	30	6	20
MISCELLANEOUS (Shelves, Fireplace, Cabinets, Stairs)	55	9	16
TOTALS	71 1	150	23

**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 81

Type Quarters: Three Bedrooms, One Story (approx. 2236 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 81 is a three bedroom, one story house with a full basement.
2. Positive levels of lead-based paint were detected throughout the interior of this house on all surfaces and components. With the exception of interior doors, all interior paint should be considered positive for lead. On the exterior surfaces, the doors and door components, window components, upper trim and the lap board siding above the front porch all contain positive levels of LBP.
3. A photograph of Quarters No. 81 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 81, follows the XRF field readings.

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Field XRF Readings for Quarters 81
Ft. McClellan, AL

Date Surveyed: 03 February 1994

Surveyors: JS,LM

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020394125001	1.0	1.2	95	N/A	Calibration Check
7094020394125001	0.7	1.1	95	N/A	Calibration Check
7094020394125001	1.0	1.1	95	N/A	Calibration Check

INTERIOR READINGS

Room 1 (Living Room)

81.1.1	5.8	0.6	23	Good	Creme Wood Door Casing
81.1.2	0.8	0.2	95	Good	Creme Plaster Wall (Inconclusive-See Sample ID# 81.2.5)
81.1.3	7.1	0.7	23	Good	Creme Wood Window Apron
81.1.4	7.5	0.8	23	Good	Creme Wood Baseboard
81.1.5	0.4	0.0	95	Good	White Plaster Ceiling
81.1.6	5.1	0.3	23	Good	Creme Wood Crown Molding
81.1.7	6.4	0.5	23	Good	Creme Wood Door Jamb

Room 2 (Kitchen)

81.2.1	7.5	0.6	23	Good	Creme Wood Door Header
81.2.2	0.3	0.0	23	Good	Creme Wood Door
81.2.3	-0.1	0.1	23	Good	Creme Wood Shelf
81.2.4	10.0	0.8	23	Good	Creme Wood Baseboard
81.2.5	2.2	0.2	23	Good	Creme Plaster Wall
81.2.6	0.2	-0.1	23	Good	Creme Metal Cabinet

81.2.7	-0.5	-0.2	23	Good	Creme Wood Cabinet
81.2.8	4.2	0.2	95	Fair	Creme Plaster Ceiling
81.2.9	5.9	0.2	23	Good	Creme Wood Window Sill

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 81
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 4 (Bedroom)					
81.4.1	9.7	1.2	23	Good	Creme Wood Baseboard
81.4.1	11.1	1.2	23	Good	Duplicate
7094020394141001	0.6	0.6	95	N/A	Calibration Check
81.4.2	8.8	1.2	23	Good	Creme Window Casing
81.4.3	1.2 ⁽¹⁾	0.2	23	Fair	Creme Plaster Wall (Inconclusive - Scrape Sample Taken)
81.4.4	0.1	-0.0	23	Good	Creme Wood Door
81.4.5	0.2	0.0	23	Fair	White Plaster Ceiling
Room 5 (Bedroom)					
81.5.1	6.3	0.5	23	Good	Creme Wood Window Sill
81.5.2	1.2	0.1	95	Good	Creme Plaster Wall (Inconclusive-See Sample ID# 81.2.5)
81.5.3	0.9	0.1	95	Good	Creme Plaster Ceiling (Inconclusive-See Sample ID# 81.2.8)
81.5.4	5.0	0.3	23	Good	Creme Wood Crown Molding
81.5.5	8.0	1.2	23	Good	Creme Wood Baseboard
81.5.6	6.9	0.9	23	Good	Creme Wood Door Casing
81.5.7	0.8	0.0	95	Good	Creme Wood Door

(Inconclusive - See Sample ID# 81.4.4)

(¹) Lab Analysis: negative (Result = 0.11% Lead, Action Level \geq 0.5% Lead)

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 81
Ft. McClellan, AL**

ID#	K-Shell mg/cm²	L-Shell mg/cm²	Time seconds	Condition	Comments
Room 6 (Master Bedroom)					
81.6.1	6.3	0.9	23	Good	Creme Wood Window Apron
81.6.2	8.8	1.2	23	Poor	Creme Wood Baseboard
81.6.3	1.2	0.1	95	Good	Creme Plaster Wall
81.6.4	3.2	0.3	23	Good	(Inconclusive-See Sample ID# 81.2.5) Creme Wood Shelf Support
81.6.5	5.2	0.6	23	Good	Creme Wood Door Casing
Room 7 (Basement)					
81.7.1	2.0	1.9	23	Poor	Stairwell
81.7.2	2.6	2.2	23	Poor	Stair Riser
81.7.3	-0.9	-0.2	23	Poor	Basement Wall
81.7.4	8.3	4.3	95	Fair	Steel Support Beam
81.7.5	5.0	3.3	23	Fair	Back Door

EXTERIOR XRF READINGS

81.1	0.3	-0.1	95	Good	Brown Screen Frame
81.2	-0.9	-0.1	23	Good	Creme Concrete Porch Post
81.3	0.1	0.1	95	Good	Creme Beadboard Ceiling
81.4	-0.0	-0.1	23	Good	White Wood Window Casing
81.5	9.4	1.1	23	Poor	Creme Porch Soffit

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 81
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
EXTERIOR XRF READINGS (Continued)					
81.6	0.3	0.5	95	Good	Brown Wood Soffit
81.7	-1.3	-0.2	23	Fair	Creme Exterior Concrete
81.8	0.8⁽²⁾	-0.0	95	Poor	White Window Apron (Inconclusive-Scrape Sample Taken)
81.9	0.4⁽³⁾	-0.3	23	Poor	Front Porch Siding (Inconclusive-Scrape Sample Taken)
81.10	0.3	0.6	95	Fair	Basement Storm Door
81.11	3.5	1.5	23	Poor	White Wood Rear Door
81.12	10.2	1.7	23	Fair	White Wood Door Jamb
81.13	-0.1	-0.1	23	Good	Brown Beadboard Porch Ceiling
81.14	-1.2	-0.3	23	Poor	Gray Porch Floor

(²) Lab Analysis: **positive** (Result = 0.70% Lead, Action Level \geq 0.5% Lead)

(³) Lab Analysis: **positive** (Result = 4.82% Lead, Action Level \geq 0.5% Lead)

Positive XRF Readings appear in **Bold**.

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**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 83

Type Quarters: Four Bedrooms, One Story (approx. 2655 sq. ft.)

Date Constructed: 1930

Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 83 is a four bedroom, two bathroom unit, with a full basement.

2. In the interior of Quarters No. 83, positive levels of lead-based paint were detected in Rooms Nos. 1, 2, 5, 6, 7, and 8 (see floorplan in appendix). With the exception of the doors, all paint in these rooms tested positive for lead. The portion of the house that makes up Room Nos. 3 and 4 appears to be a newer addition to the unit. No LBP was detected in this area. On the exterior surfaces, the upper porch trim and siding above the front porch tested positive for LBP. All of the remaining exterior paint tested negative for lead.

3. A photograph of Quarters No. 83 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 83 follows the field XRF readings.

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**Field XRF Readings for Quarters 83
Ft. McClellan, AL**

Date Surveyed: 03 February 1994
Surveyors: KB,LM

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020394160002	0.7	0.6	95	N/A	Calibration Check
7094020394160002	1.0	1.2	95	N/A	Calibration Check
7094020394142501	1.3	1.3	81	N/A	Calibration Check

INTERIOR XRF READINGS

Room 1 (Living/Dining Room)

83.1.1	6.6	0.3	20	Good	White Wood Baseboard
83.1.2	1.8	0.1	20	Good	White Wood Wall
83.1.3	4.8	0.2	20	Good	White Wood Door Casing

83.1.4	-0.5	-0.1	20	Good	White Wood Door
83.1.5	5.1	0.2	20	Good	White Wood Window Apron
83.1.6	5.0	0.2	20	Good	White Wood Window Sill
83.1.7	0.0	-0.1	20	Good	White Wood Window Sash
83.1.8	-0.7	-0.1	20	Good	Stained Wood Floor
83.1.9	4.4	0.1	20	Good	White Wood Door Header
83.1.10	4.1	0.1	20	Good	White Wood Door Jamb
83.1.11	1.6	0.1	81	Good	White Wood Wall
83.1.12	0.2	-0.1	20	Good	White Wood Vent Trim
83.1.13	0.3	-0.0	20	Good	White Plaster Ceiling

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 83
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 2 (Bedroom)					
83.2.1	0.4	0.0	81	Good	White Plaster Ceiling
83.2.2	2.9	0.1	20	Good	White Wood Crown Molding
83.2.3	3.7	0.1	20	Good	White Wood Window Casing
83.2.4	-0.2	-0.1	20	Good	White Wood Window Sash
83.2.5	-0.5	-0.1	20	Good	White Wood Door
83.2.6	4.2	0.2	20	Good	White Wood Shelf

	83.2.7	4.0	0.4	20	Good	White Wood Door Jamb
	83.2.7	4.1	0.4	20	Good	Duplicate
7094020394155001		1.1	1.3	81	N/A	Calibration Check
	83.2.8	1.0	0.1	81	Good	White Plaster Wall (Inconclusive-See Sample ID# 83.3.7)
	83.2.9	3.6	0.8	20	Good	White Wood Baseboard
	83.2.10	-0.6	-0.1	20	Good	White Wood Door

Room 3 (Bedroom)

	83.3.1	-0.3	-0.1	20	Good	White Wood Door Casing
	83.3.2	0.0	-0.1	20	Good	White Wood Door Casing
	83.3.3	-0.2	-0.1	20	Good	White Wood Window Casing
	83.3.4	-0.6	-0.1	20	Good	White Wood Window Apron

Positive XRF Readings appear in **Bold**.

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**Field XRF Readings for Quarters 83
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments	
=====						
Room 3 (Continued)						
	83.3.5	0.2	-0.1	20	Good	White Wood Window Casing
	83.3.6	-0.1	-0.1	20	Good	White Wood Window Sash
	83.3.7	-0.1	-0.1	20	Good	White Plaster Wall
	83.3.8	-0.2	-0.1	20	Good	White Plaster Ceiling

83.3.9	0.1	-0.1	20	Good	White Wood Door Jamb
83.3.10	0.1	-0.1	20	Good	White Wood Baseboard

Room 4 (Bedroom)

83.4.1	-0.4	-0.1	20	Good	Stained Wood Floor
83.4.2	-0.3	-0.1	20	Good	White Wood Door Casing
83.4.3	-0.5	-0.1	20	Good	White Wood Window Apron
83.4.4	-2.2	-0.2	20	Poor	White Plaster Wall
83.4.5	-0.3	-0.1	20	Good	White Wood Door Casing

Room 5 (Bedroom)

83.5.1	0.8	0.1	81	Good	White Plaster Wall
				(Inconclusive-See	Sample ID# 83.3.7)
83.5.2	7.0	0.2	20	Good	White Wood Window Sill
83.5.2	6.9	0.2	20	Good	Duplicate
7094020394163001	1.0	1.2	81	N/A	Calibration Check

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 83
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ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

Room 5 (Continued)

83.5.3	-0.1	-0.1	20	Good	White Wood Window Sash
83.5.4	-0.3	0.1	20	Good	White Wood Shelf

83.5.5	9.2	0.5	20	Good	White Wood Door Jamb
83.5.6	0.7	0.0	81	Good	White Plaster Ceiling (Inconclusive-See Sample ID# 83.6.6)
83.5.7	3.1	1.0	20	Good	White Wood Baseboard
83.5.8	-0.5	-0.1	20	Good	White Wood Door

Room 6 (Hallway and Bathroom)

83.6.1	-0.3	-0.1	20	Good	White Wood Shelf
83.6.2	-0.2	-0.1	20	Good	White Wood Door
83.6.3	-0.5	-0.1	20	Good	White Wood Door Casing
83.6.4	-0.2	-0.1	20	Poor	White Plaster Wall
83.6.5	-0.0	-0.0	20	Good	White Wood Door Jamb
83.6.6	0.4	-0.0	81	Good	White Plaster Ceiling
83.6.7	0.2	-0.0	20	Good	White Wood Crown Molding
83.6.8	-0.3	-0.1	20	Good	Tan Wallpapered Wall
83.6.9	-0.3	-0.1	20	Good	White Wood Door
83.6.10	-0.2	-0.1	20	Good	White Wood Baseboard
83.6.11	5.1	0.2	20	Good	White Wood Door Casing
83.6.12	-0.3	-0.1	20	Good	White Wood Door Casing

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 83
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

Room 6 (Continued)

	83.6.13	-0.1	-0.1	20	Good	White Wood Cabinet
	83.6.14	3.2	0.0	20	Good	White Wood Shelf
	83.6.14	3.2	0.0	20	Good	Support Duplicate
7094020394170501		1.2	1.3	81	N/A	Calibration Check
	83.6.15	5.3	0.2	20	Good	White Wood Attic Scuttle
7094020394151501		1.3	1.3	81	N/A	Calibration Check
	1.63	1.2	1.5	81	N/A	NIST Standard
Room 7 (Kitchen)						
	83.7.1	0.0	-0.1	23	Good	Creme Wood Door Casing
	83.7.2	0.1	-0.1	23	Good	Creme Wood Door
	83.7.3	0.1	-0.1	23	Good	Creme Wood Cabinet
	83.7.4	-0.4	-0.1	23	Good	White Wood Shelf
	83.7.5	3.5	0.1	23	Good	White Wood Window Sill
	83.7.6	2.0	0.1	23	Good	White Plaster Wall
	83.7.7	5.2	0.1	23	Good	White Wood Door Jamb
7094020394171001		0.5	0.5	95	N/A	Calibration Check

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 83
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
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 =====
Room 8 (Basement)

83.8.1	0.1	-0.1	23	Poor	Basement Step
83.8.2	-0.9	-0.2	23	Fair	Basement Wall
83.8.3	-1.3	-0.1	23	Good	Gray Concrete Wall
83.8.4	7.0	2.2	95	Poor	Steel Support Post
83.8.5	5.3	2.5	23	Fair	Cross Beam Support
83.8.6	-0.2	0.0	23	Fair	White Plaster Ceiling
83.8.7	4.8	2.0	23	Fair	Gray Creme Door
83.8.8	-0.2	-0.2	23	Good	White Concrete Stairwell
83.8.9	-0.9	-0.0	23	Poor	White Back Door
83.8.10	0.1	-0.1	23	Good	Creme Wood Window Casing
83.8.11	0.6	1.0	95	Fair	Black Stair Rail
83.8.12	0.1	-0.1	95	Good	Back Porch Ceiling

EXTERIOR XRF READINGS

83.1	0.2	0.1	95	Good	Brown Wood Soffit
83.2	-1.8	-0.3	23	Good	Creme Concrete Porch Post
83.3	0.1	-0.1	95	Poor	White Window Frame
83.4	-0.3	-0.1	23	Fair	Creme Coal Shoot Cover
83.5	-0.2	-0.2	23	Good	Concrete Wall
83.6	-0.1	0.0	23	Poor	Brown Soffit
83.7	0.3	-0.1	23	Good	Creme Wood Beadboard Ceiling
83.8	-0.2	-0.1	23	Good	Brown Screen Frame
83.9	-1.9	-0.3	23	Poor	Gray Porch Floor
83.10	4.9	0.5	23	Fair	Upper Porch Trim

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

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**Drennen Family Housing Area, Fort McClellan, Alabama
 Lead-Based Paint Survey**

Quarters No. 85

Type Quarters: Four Bedroom, One Story (approx. 2655 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim.

Survey Summary:

1. Quarters No. 85 is a four bedroom, two bathroom unit with a full basement.
2. In the interior of Quarters No. 85, positive levels of lead-based paint were detected in Room Nos. 1, 2, 3, 6, 7, and 8 (see floorplan in appendix). The baseboards, crown molding, window and door components, and shelf supports all tested positive for LBP. Walls, ceilings and doors tested negative. The portion of the house that makes up Room Nos. 4 and 5 appears to be a newer addition to the unit. No LBP was detected in this area. On the exterior surfaces, the upper porch trim and siding above the front porch tested positive for LBP. All of the remaining exterior paint tested negative for lead.
3. A photograph of Quarters No. 85 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 85 follows the field XRF readings.

Ft. McClellan, AL

Date Surveyed: 04 February 1994

Surveyors: LM

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020494073002	0.4	0.7	95	N/A	Calibration Check
7094020494073002	0.6	0.6	95	N/A	Calibration Check
7094020494073002	0.5	0.7	95	N/A	Calibration Check
7094020494073002	0.4	0.6	95	N/A	Calibration Check
7094020494073002	0.5	0.6	95	N/A	Calibration Check
0000	0.1	-0.1	95	N/A	Blank
1.02	0.9	1.1	95	N/A	NIST Standard

Room 1 (Living Room)

85.1.1	3.5	0.2	23	Good	Creme Wood Baseboard
85.1.2	0.9 ⁽¹⁾	0.1	95	Good	Creme Plaster Wall (Inconclusive-Scrape Sample Taken)
85.1.3	3.8	0.3	23	Good	Creme Wood Door Header
85.1.4	0.1	-0.1	23	Good	Creme Wood Door
85.1.5	5.2	0.3	23	Good	Creme Wood Door Casing
85.1.6	0.9	0.1	95	Good	White Plaster Ceiling (Inconclusive-See Sample ID# 85.5.3)
85.1.7	2.3	0.1	23	Good	White Wood Crown Molding
85.1.8	4.6	0.2	23	Good	Creme Wood Window Sill
85.1.9	0.2	-0.1	23	Good	Creme Wood Window Frame
85.1.10	-0.0	-0.0	23	Good	Creme Wood Window Ledge
85.1.10	0.2	-0.1	23	Good	Duplicate

⁽¹⁾ Lab Analysis: **negative** (Result = 0.06% Lead, Action Level ≥ 0.5% Lead)

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

Field XRF Readings for Quarters 85
Ft. McClellan, AL

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
70940204090002	0.6	0.6	95	N/A	Calibration Check
Room 2 (Kitchen)					
85.2.1	-0.7	-0.2	23	Good	Creme Wood Cabinet
85.2.2	3.7	0.1	23	Good	Creme Wood Window Sill
85.2.3	-0.2	-0.1	23	Good	Creme Wood Window Frame
85.2.4	0.2	-0.2	23	Good	Creme Wood Window Trim
85.2.5	2.9	0.1	23	Good	Creme Wood Door Casing
85.2.6	7.9	0.8	23	Good	Creme Wood Door Jamb
85.2.7	-0.0	-0.1	23	Good	Creme Wood Shelf
85.2.8	-0.2	-0.1	23	Good	Creme Wood Door
Room 3 (Bedroom)					
85.3.1	3.8	0.6	23	Good	Creme Wood Baseboard
85.3.2	3.9	0.1	23	Good	Creme Wood Window Apron
85.3.3	3.5	0.1	23	Good	Creme Wood Window Sill
85.3.4	0.1	-0.1	23	Good	Creme Wood Window Frame
85.3.5	6.0	0.4	23	Good	Creme Wood Shelf Support
85.3.6	-0.4	-0.1	23	Good	Creme Wood Door

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as

per HUD guidelines.

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Field XRF Readings for Quarters 85
Ft. McClellan, AL

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 4 (Bedroom)					
85.4.1	0.2	-0.1	23	Good	Creme Wood Sliding Door
85.4.2	-0.3	-0.2	23	Good	Creme Wood Shelf
85.4.3	0.1	-0.1	23	Good	Creme Sheetrock Wall
85.4.4	0.3	-0.1	23	Good	Creme Wood Window Apron
85.4.5	0.2	-0.1	23	Good	Creme Wood Baseboard
Room 5 (Bedroom)					
85.5.1	-0.1	-0.1	23	Good	Creme Wood Door Frame
85.5.2	-0.6	-0.1	23	Good	Creme Wood Window Casing
85.5.3	-0.0	-0.1	23	Good	White Plaster Ceiling
Room 6 (Bedroom)					
85.6.1	0.5	0.1	23	Good	White Plaster Ceiling (Inconclusive-See Sample ID# 85.5.3)
85.6.2	3.8	0.1	23	Good	Creme Wood Window Sill
85.6.3	0.1	-0.1	23	Good	Creme Wood Window Frame
85.6.4	6.7	0.6	23	Good	White Wood Crown Molding
Room 7 (Hallway)					
85.7.1	0.1	-0.0	23	Good	Creme Wood Baseboard
85.7.1	0.3	-0.3	23	Good	Duplicate
7094020494095502	0.5	0.6	95	N/A	Calibration Check
85.7.2	-0.2	-0.1	23	Good	Creme Wood Door

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings per HUD guidelines.

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**Field XRF Readings for Quarters 85
Ft. McClellan, AL**

ID#	K-Shell mg/cm²	L-Shell mg/cm²	Time seconds	Condition	Comments
Room 8 (Basement)					
85.8.1	-1.6	-0.1	23	Good	White Concrete Wall
85.8.2	4.7	1.9	23	Good	White Steel Support Beam
85.8.3	4.3	2.8	23	Good	Brown Steel Cross Beam
85.8.4	1.4	0.9	95	Good	Creme Wood Door Casing
EXTERIOR XRF READINGS					
85.1	-0.2	-0.1	23	Good	Brown Wood Screen Frame
85.2	0.1	-0.1	23	Good	Creme Concrete Window Apron
85.3	0.4	-0.0	95	Good	White Wood Window Casing
85.4	-1.1	-0.3	23	Good	Gray Concrete Floor
85.5	-0.2	-0.0	23	Good	Creme Beadboard Ceiling
85.6	3.2	0.6	23	Good	Creme Wood Porch Trim
85.7	-0.4	-0.3	23	Good	Brown Wood Eave
85.8	0.3	-0.0	23	Good	Brown Wood Facia
85.9	8.9	0.9	23	Fair	Creme Wood Siding
85.10	-0.6	-0.0	23	Fair	White Wood Window Apron
85.11	-2.0	-0.2	23	Good	Creme Stucco Wall

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 Octoberr 1994

**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 87

Type Quarters: Four Bedroom, One Story (approx. 2655 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 87 is a four bedroom, two bathroom unit with a full basement.
2. Positive levels of lead-based paint were detected in the interior of Quarters No. 87. Based on the XRF readings, it is reasonable to assume that the door components, trim (baseboards, crown molding, etc.), older window components, shelves and shelf supports all contain positive levels of lead-based paint. Walls, ceilings and doors tested negative for LBP. On the exterior surfaces, the upper porch trim, lap-board siding above the front porch and door components tested positive for LBP.
3. A photograph of Quarters No. 87 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 87 follows the field XRF readings.

**Field XRF Readings for Quarters 87
Ft. McClellan, AL**

Date Surveyed: 04 February 1994
Surveyors: JS,BS

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020494101501	0.4	0.5	95	N/A	Calibration Check

INTERIOR XRF READINGS

Room 1 (Living Room)

87.1.1	0.3	-0.1	95	Good	White Wood Door
87.1.2	3.8	0.1	23	Good	White Wood Door Header
87.1.3	-0.0	-0.1	23	Good	White Wood Baseboard
87.1.4	2.9	0.1	23	Good	White Wood Window Sill
87.1.5	3.8	0.1	23	Good	White Wood Window Casing
87.1.6	0.2	-0.0	95	Good	White Plaster Wall
87.1.7	0.6	0.0	23	Good	White Plaster Ceiling
87.1.8	3.4	0.1	23	Good	(Inconclusive-See Sample ID# 87.4.1) White Wood Door Jamb
87.1.9	-0.4	-0.1	23	Good	White Wood Baseboard
87.1.10	0.0	-0.0	23	Good	White Wood Crown Molding

Room 2 (Kitchen)

87.2.1	0.0	-0.1	23	Good	White Wood Cabinet
87.2.2	0.1	-0.1	23	Good	White Wood Window Frame
87.2.3	0.2	-0.1	23	Good	White Wood Door
87.2.4	-0.5	-0.2	23	Good	White Wood Shelf

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 87
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 2 (Continued)					
87.2.5	-0.2	-0.1	23	Good	White Wood Shelf Support
87.2.6	-0.7	-0.2	23	Good	White Wood Door Casing
87.2.7	0.1	-0.1	95	Good	White Wood Window Sill
87.2.8	3.8	0.1	23	Good	White Wood Door Casing
Room 3 (Bedroom)					
87.3.1	3.5	0.1	23	Good	White Wood Door Header
87.3.2	3.1	0.2	23	Good	White Wood Shelf Support
87.3.3	3.6	1.1	23	Good	White Wood Baseboard
87.3.4	4.3	0.2	23	Good	White Wood Baseboard
87.3.5	0.7	0.1	95	Good	White Plaster Wall (Inconclusive-See Sample ID# 87.1.6)
Room 4 (Bedroom)					
87.4.1	0.1	-0.1	23	Good	White Plaster Ceiling
87.4.2	0.9	0.0	95	Good	White Wood Crown Molding (Inconclusive-See Sample ID#

87.7.7)

87.4.3	0.1	-0.1	23	Good	White Wood Door
87.4.4	-0.1	-0.1	23	Good	White Sheetrock Wal
87.4.5	-0.4	-0.1	23	Good	White Wood Window Casing
87.4.6	-0.2	-0.1	23	Good	White Wood Baseboard

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 87
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 5 (Bedroom)					
87.5.1	0.1	-0.1	23	Good	White Wood Door Frame
87.5.2	-0.0	-0.1	23	Good	White Wood Window Casing
87.5.3	-0.0	-0.1	23	Good	White Wood Shelf
87.5.4	-0.2	-0.1	23	Good	White Wood Baseboard
Room 6 (Bedroom)					
87.6.1	3.9	0.2	23	Good	White Wood Baseboard
87.6.2	3.4	0.1	23	Good	White Wood Door Header
87.6.3	-0.3	-0.1	23	Good	White Wood Shelf
87.6.4	3.2	0.1	23	Good	White Wood Window Apron
87.6.5	0.8 ⁽¹⁾	0.1	95	Good	White Plaster Wall (Inconclusive-Scrape Sample Taken)
Room 7 (Hallway, Bathroom, and Closet)					
87.7.1	0.2	-0.1	23	Good	White Wood Door
87.7.2	0.2	0.1	326	Good	White Sheetrock Wal'
87.7.3	0.4	-0.1	23	Good	White Wood Door

87.7.4	-0.2	-0.1	23	Good	Casing
87.7.5	0.2	0.0	23	Good	White Wood Baseboard
87.7.6	0.0	-0.1	23	Good	White Plaster Ceiling
87.7.7	-0.2	0.0	23	Good	White Wood Door Jamb
					White Wood Crown Molding

(¹) Lab Analysis: **negative** (Results = 0.04% Lead, Action Level ≥ 0.5%)

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 87
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 8 (Basement)					
87.8.1	0.2	-0.1	20	Good	White Concrete Wall
87.8.2	7.0	6.4	20	Good	Brown Beam
87.8.3	-0.1	-0.1	20	Good	White Wood Shelf Support
87.8.4	-1.8	-0.2	20	Good	Brown Concrete Wall
87.8.5	-0.9	-0.2	20	Good	White Soapstone Sink
87.8.6	1.7	1.0	81	Good	White Wood Wall Partition
87.8.7	5.7	1.0	20	Good	White Wood Screen Door
87.8.8	3.1	0.8	20	Good	White Wood Door Jamb
87.8.9	-0.1	-0.2	20	Good	White Concrete Wall
87.8.10	0.0	-0.1	20	Good	White Wood Window Sill
87.8.11	-0.0	-0.0	20	Good	White Wood Window Casing
87.8.12	-0.0	-0.1	20	Good	White Wood Window Sash
87.8.13	-0.1	-0.1	20	Good	White Wood Crown Molding

87.8.14	0.3	-0.0	20	Good	White Plaster Ceiling
87.8.15	-0.2	0.0	81	Good	Black Metal Handra
87.8.16	-1.0	-0.2	20	Good	White Concrete Wal
87.8.17	0.3	0.0	20	Good	White Wood Door Casing
87.8.18	-0.1	-0.1	20	Good	White Wood Door
7094020494115501	1.1	1.4	81	N/A	Calibration Check
7094040294101102	1.2	1.2	81	N/A	Calibration Check

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 87
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
EXTERIOR XRF READINGS					
87.1	-0.9	-0.1	20	Good	White Porch Column
87.2	-3.2	-0.0	20	Good	White Concrete Window Sill
87.3	-0.2	0.0	20	Good	White Wood Window Casing
87.4	-1.0	-0.2	20	Good	White Concrete Foundation
87.5	0.0	0.1	81	Fair	White Wood Window Casing
87.6	0.1	0.0	20	Good	Brown Wood Soffit
87.7	-0.2	-0.0	20	Good	White Wood Door
87.8	-0.2	-0.1	20	Good	Brown Upper Trim
87.9	0.2	-0.0	20	Poor	White Wood Window Casing
87.10	-0.0	-0.2	20	Good	White Stucco Wall
87.11	-1.7	-0.0	20	Good	White Concrete Window Sill
87.12	0.3	0.1	81	Good	Brown Wood Soffit

	87.13	12.5	0.9	20	Good	White Porch Facia
	87.14	-1.3	-0.1	20	Good	White Concrete Column
	87.15	-0.4	-0.2	20	Good	Brown Porch Door
	87.16	-1.4	-0.1	20	Fair	White Concrete Porch Bar
	87.17	-0.9	-0.1	20	Good	White Concrete Window Sill
	87.18	-0.3	0.0	20	Good	White Wood Ceiling
	87.19	-0.0	-0.1	20	Good	Gray Concrete Threshold
	87.20	7.4	0.7	20	Good	White Wood Door Jamb
7094020494110501		1.2	1.3	81	N/A	Calibration Check
	87.21	3.7	0.7	20	Good	White Wood Door Jamb

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 October 1994

**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 89

Type Quarters: Three Bedroom, One Story (approx. 2236 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim.

Survey Summary:

1. Quarters No. 89 is a three bedroom, one bathroom unit with a full basement.
2. Based on the XRF readings, it is reasonable to assume that all doors, door components, baseboards, and crown molding in the interior of Quarters No. 89 all contain positive levels of lead-based paint. No positive LBP was detected on the exterior of this house.
3. A photograph of Quarters No. 89 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 89 follows the field XRF readings.

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11 October 1994

**Field XRF Readings for Quarters 89
Ft. McClellan, AL**

Date Surveyed: 04 February 1994
Surveyors: LM,BS

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020494120001	0.3	0.5	95	N/A	Calibration Check
7094020494125502	0.4	0.6	95	N/A	Calibration Check
7094020494125502	0.4	0.6	95	N/A	Calibration Check
7094020494125502	0.8	1.0	95	N/A	Calibration Check

INTERIOR XRF READINGS

Room 1 (Living Room)

89.1.1	2.7	0.3	23	Good	Creame Wood Baseboard
89.1.2	0.4	0.1	95	Good	Creame Plaster Wall
89.1.3	5.7	0.1	23	Good	White Wood Crown Molding
89.1.4	-0.1	-0.0	23	Good	White Plaster Ceiling

89.1.5	3.0	0.3	23	Good	Creme Wood Door Casing
89.1.6	2.1	0.4	23	Good	Creme Wood Door
89.1.7	3.5	0.5	23	Good	Creme Wood Door Jamb
89.1.8	-1.1	-0.1	23	Good	Creme Wood Window Sill
89.1.9	3.1	0.3	23	Good	Creme Wood Door
89.1.10	2.1	0.3	23	Good	Creme Wood Shelf
89.1.11	4.3	0.3	23	Good	Creme Wood Door Casing

Room 2 (Kitchen)

89.2.1	-0.0	-0.1	23	Good	Creme Wood Cabinet
89.2.2	0.2	-0.1	23	Good	Creme Plaster Wall
89.2.3	-0.4	-0.1	23	Good	Creme Wood Window Sill
89.2.4	3.2	0.2	23	Good	Creme Wood Door Casing

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 89
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 2 (Continued)					
89.2.5	0.2	-0.1	23	Good	Creme Wood Window Frame
89.2.5	0.2	-0.1	23	Good	Duplicate
7094020494143002	0.5	0.7	95	N/A	Calibration Check
89.2.6	2.9	0.2	23	Good	Creme Wood Door

Room 3 (Bedroom)

89.3.1	-1.1	-0.1	23	Good	Creme Wood Window Sill
89.3.2	-0.3	-0.1	23	Good	Creme Wood Window Frame
89.3.3	0.3	0.0	23	Good	Creme Plaster Wall
89.3.4	4.5	0.5	23	Good	Creme Wood Baseboard

Room 4 (Bedroom)

89.4.1	6.7	0.2	23	Good	White Wood Crown Molding
89.4.2	-0.2	-0.1	23	Good	White Plaster Ceiling
89.4.3	-0.9	-0.2	23	Good	Creme Wood Window Sill
89.4.4	0.3	-0.1	23	Good	Creme Wood Window Frame
89.4.5	-0.4	-0.3	23	Good	Creme Wood Baseboard
89.4.6	3.3	0.4	23	Good	Creme Wood Door
89.4.7	-0.4	0.1	23	Good	Creme Wood Shelf Support

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 October 1994

**Field XRF Readings for Quarters 89
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

Room 5 (Bedroom)

89.5.1	0.4	0.1	95	Good	Creme Plaster Wall
89.5.2	-0.1	-0.1	23	Good	Creme Wood Window Sill
89.5.3	4.4	0.5	23	Good	Creme Wood Baseboard
89.5.4	2.2	0.2	23	Good	Creme Wood Door

Room 6 (Basement)

89.6.1	-0.9	-0.3	23	Good	White Concrete Wall
89.6.2	-0.5	-0.2	23	Fair	Creme Wood Door Jamb
89.6.3	-1.1	-0.2	23	Good	Beige Concrete Wall
89.6.4	0.2	0.2	23	Good	Gray Wood Stair Rail

EXTERIOR XRF READINGS

89.1	-1.3	-0.3	23	Good	Creme Concrete Wall
89.2	-1.6	-0.2	23	Fair	Gray Concrete Step
89.3	0.0	-0.0	23	Poor	White Wood Window Apron
89.4	-0.1	-0.1	23	Good	Creme Wood Door
89.5	1.2	0.4	23	Good	Brown Wood Eave
89.6	0.1	-0.0	23	Good	(Inconclusive-See Sample ID# 89.8) Brown Wood Screen Frame
89.7	-1.5	-0.3	23	Good	Creme Concrete Wall
7094020494133501	1.1	1.2	81	N/A	Calibration Check
89.8	0.5	0.3	81	Good	Brown Wood Eave
89.9	0.6	0.3	81	Good	Brown Wood Rafter

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 90

Type Quarters: Three Bedroom, One Story (approx. 2236 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 90 is a three bedroom, one bathroom unit with a full basement.
2. With the exception of the crown molding trim, no lead-based paint was detected in the interior of Quarters No. 90. No lead-based paint was detected on the exterior of Quarters No. 90.
3. A photograph of Quarters No. 90 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 90 follows the field XRF readings.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 90
Ft. McClellan, AL**

Date Surveyed: 04 February 1994
Surveyors: JS,KB

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020494151501	0.5	0.6	95	N/A	Calibration Check

INTERIOR XRF READINGS

Room 1 (Bedroom)

	90.1.1	-0.3	0.0	20	Good	White Plaster Wall
	90.1.2	0.8	0.1	382	Good	White Wood Baseboard
	90.1.3	0.2	-0.1	20	Good	White Wood Window Sill
	90.1.4	-1.1	-0.1	20	Good	White Wood Window Casing
	90.1.5	-0.3	-0.1	20	Good	White Wood Window Sash
	90.1.6	1.1	0.1	81	Good	White Wood Crown Molding
						(Inconclusive-See Sample ID#
90.2.2)	90.1.7	0.3	-0.1	20	Good	White Plaster Ceiling
	90.1.8	0.7 ⁽¹⁾	0.0	23	Good	White Wood Door
						(Inconclusive-Scrape Sample Taken)
	90.1.9	-1.2	-0.2	20	Good	Stained Wood Floor
	90.1.10	0.5	0.1	81	Good	White Wood Door Jamb
	90.1.11	0.6	0.1	81	Good	White Wood Door

(¹) Lab Analysis: **negative** (Results = 0.45% Lead, Action Level 0.5% Lead)

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 90
Ft. McClellan, AL**

ID#	K-Shell	L-Shell	Time	Condition	Comments
	mg/cm ²	mg/cm ²	seconds		
=====	=====	=====	=====	=====	=====

Room 2 (Bedroom)

90.2.1	0.6	0.1	95	Good	White Wood Shelf Support
90.2.2	1.3	0.1	326	Good	White Wood Crown Molding
90.2.3	0.1	0.0	95	Good	White Plaster Wall
90.2.4	0.3	0.1	95	Good	White Wood Door
90.2.5	0.4	0.1	95	Good	White Wood Door Casing
90.2.6	-0.4	-0.1	20	Good	White Wood Window Sill
90.2.7	-0.3	-0.1	20	Good	White Wood Window Sash
90.2.8	-0.7	-0.1	20	Good	White Wood Window Apron
90.2.9	1.1 ⁽²⁾	0.2	95	Good	White Wood Baseboard (Inconclusive-Scrape Sample Taken)
90.2.10	-0.1	-0.0	20	Good	White Plaster Ceiling

Room 3 (Bedroom)

90.3.1	0.3	0.1	81	Good	White Wood Shelf Support
90.3.2	0.1	-0.0	95	Good	White Plaster Wall
90.3.3	0.9	0.1	81	Good	White Wood Baseboard (Inconclusive-See Sample ID# 90.1.2)
90.3.4	-0.7	-0.2	23	Good	White Wood Window Sill
90.3.5	0.1	-0.1	23	Good	White Wood Window Frame

⁽²⁾ Lab Analysis: **negative** (Results = 0.18% Lead, Action Level 0.5% Lead)

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 90
Ft. McClellan, AL**

ID#	K-Shell	L-Shell	Time	Condition	Comments
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mg/cm² mg/cm² seconds

=====

Room 3 (Continued)

90.3.6	0.1	-0.0	95	Good	White Plaster Ceiling
90.3.7	0.3	0.1	20	Good	White Wood Door
90.3.8	0.4	0.1	81	Good	White Wood Door Header
90.3.9	-0.6	-0.1	23	Good	Wood Floor Tile
90.3.9	-1.6	-0.1	23	Good	Duplicate
7094020494165501	0.3	0.5	95	N/A	Calibration Check

Room 4 (Hallway and Bathroom)

90.4.1	0.2	-0.2	23	Good	White Plaster Ceiling
90.4.2	0.3	0.1	81	Good	White Wood Door Jamb
90.4.3	0.0	-0.0	95	Good	White Plaster Wall
90.4.4	0.5	0.2	95	Good	White Wood Door Casing
90.4.5	0.5	0.1	95	Good	White Wood Door
90.4.6	0.1	0.1	81	Good	White Wood Shelf
90.4.7	0.3	0.0	95	Good	White Wood Attic Scuttle
90.4.8	0.2	-0.1	20	Good	Stained Wood Floor

Room 5 (Basement)

90.5.1	-2.1	-0.3	23	Good	White Concrete Wall
90.5.2	0.1	0.2	23	Good	Green Hole in Wall
90.5.3	3.0	1.7	23	Fair	Gray Stair Rail
90.5.4	3.5	1.4	23	Fair	Gray Stair Stringer

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 October 1994

Field XRF Readings for Quarters 90

Ft. McClellan, AL

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 6 (Kitchen)					
90.6.1	0.3	-0.1	23	Good	White Metal Cabinet
90.6.2	0.0	-0.1	95	Good	White Wood Window Sill
90.6.3	0.1	-0.1	23	Good	White Wood Cabinet
90.6.4	-0.1	0.1	95	Good	White Plaster Wall
90.6.5	0.4	0.1	95	Good	White Wood Door Jamb
Room 7 (Living Room)					
90.7.1	-0.1	-0.1	20	Good	White Wood Window Sill
90.7.2	-0.5	-0.1	20	Good	White Wood Window Casing
90.7.3	-0.6	-0.1	20	Good	White Plaster Wall
90.7.4	-0.3	-0.1	20	Good	White Wood Baseboard
90.7.5	-1.0	-0.1	20	Good	Stained Wood Floor
90.7.6	-0.2	-0.0	20	Good	White Plaster Ceiling
90.7.7	-0.0	-0.1	20	Good	White Wood Attic Ve
90.7.8	0.3	0.1	20	Good	White Wood Door
90.7.9	0.3	0.1	20	Good	White Wood Door Casing
90.7.10	5.2	0.7	95	Good	White Wood Door
7094020494174501	0.3	0.6	95	N/A	Calibration Check
7094020494174501	1.1	1.2	81	N/A	Calibration Check
1.63	1.5	1.5	81	N/A	NIST Standard

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

**Field XRF Readings for Quarters 90
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Exterior XRF Readings					
7094020494151501	0.5	0.6	95	N/A	Calibration Check
90.1	-1.7	-0.3	23	Poor	Creme Concrete Post
90.2	-0.1	-0.0	23	Poor	White Wood Window Apron
90.3	-0.1	-0.1	23	Good	Creme Wood Door Jamb
90.4	-0.3	-0.1	23	Good	Creme Wood Door
90.5	-0.1	0.8	23	Poor	Brown Metal Storm Door
90.6	-1.1	-0.3	23	Poor	Gray Porch Floor
90.7	0.2	-0.1	23	Poor	Brown Wood Screen Frame
90.8	-0.5	-0.3	23	Fair	Creme Concrete Window Ledge
90.9	-0.9	-0.3	23	Fair	Creme Concrete Screen Ledge
90.10	0.6	-0.0	95	Fair	Brown Wood Eave

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 103

Type Quarters: Three Bedroom, One Story (approx. 2236 sq. ft.)

Date Constructed: 1930

Type Construction: Concrete with wood Trim

Survey Summary:

1. Quarters No. 103 is a three bedroom, one bathroom unit with a full basement.
2. With the exception of the crown molding trim, the door jamb in Room No. 4 (see floorplan) and the stair railing in the basement, no lead-based paint was detected in the interior of Quarters No. 103. No lead-based paint was detected on the exterior of Quarters No. 103.
3. A photograph of Quarters No. 103 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 103 follows the field XRF readings.

Field XRF Readings for Quarters 103
Ft. McClellan, AL

Date Surveyed: 05 February 1994
Surveyors: BS

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020594071501	0.3	0.6	95	N/A	Calibration Check
7094020594071501	0.4	0.6	95	N/A	Calibration Check
7094020594071501	0.3	0.6	95	N/A	Calibration Check
7094020594071501	0.5	0.6	95	N/A	Calibration Check
7094020594071501	0.6	0.6	95	N/A	Calibration Check
0000	0.0	-0.1	95	N/A	Blank
1.02	1.0	1.1	95	N/A	NIST Standard

INTERIOR XRF READINGS

Room 1 (Living Room)

103.1.1	0.6	0.0	95	Good	Creme Wood Door
103.1.2	1.0	0.1	95	Good	Creme Door Casing
103.2.6) Baseboard	103.1.3	0.4	0.1	95	Good Creme Wood
103.1.4	0.5	0.1	95	Good	Creme Plaster Wall
103.1.5	0.5	0.0	95	Good	White Plaster Ceiling
103.1.6	0.9	0.1	95	Good	White Wood Crown Molding
103.1.7	-0.4	-0.1	23	Good	(Inconclusive-See Sample ID# 103.3.1) Creme Wood Window Sill
103.1.8	-0.2	-0.1	23	Good	Creme Wood Window Casing
103.1.9	-0.3	-0.1	23	Good	Stained Wood Floor

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is

total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings per HUD guidelines.

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11 October 1994

**Field XRF Readings for Quarters 103
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 2 (Bedroom)					
103.2.1	0.7	0.2	95	Good	Creme Wood Baseboard (Inconclusive-See Sample ID# 103.1.3)
103.2.2	0.6	0.1	95	Good	Creme Plaster Wall
103.2.3	-0.3	-0.1	23	Good	Creme Wood Window Frame
103.2.4	0.1	0.1	95	Good	Creme Wood Shelf Support
103.2.5	0.6	0.2	95	Good	Creme Wood Door Jamb
103.2.6	0.8 ⁽¹⁾	0.1	95	Good	Creme Wood Door Casing (Inconclusive -Scrape Sample
Taken) Crown	103.2.7	1.4	0.1	95	Good White Wood Molding
Room 3 (Bedroom)					
103.3.1	1.6	0.1	95	Good	White Wood Crown Molding
103.3.2	0.5	-0.0	95	Good	White Plaster Ceiling
103.3.3	0.3	0.0	95	Good	Creme Plaster Wall
103.3.4	0.7	0.1	95	Good	Creme Wood Baseboard (Inconclusive-See Sample ID# 103.1.3)
103.3.5	0.0	0.2	95	Good	Creme Wood Shelf

⁽¹⁾ Lab Analysis: **negative** (Result = 0.25% Lead, Action Level ≥ 0.5% Lead)

Positive XRF Readings (if any) appear in Bold.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 October 1994

**Field XRF Readings for Quarters 103
Ft. McClellan, AL**

ID#	K-Shell mg/cm²	L-Shell mg/cm²	Time seconds	Condition	Comments
Room 3 (Continued)					
103.3.6	0.0	-0.1	23	Good	Creme Wood Window Sash
103.3.6	0.2	-0.1	23	Good	Duplicate
7094050294092002	0.4	0.5	95	N/A	Calibration Check
103.3.7	0.3	0.0	95	Good	Creme Wood Door
103.3.8	0.3	0.1	23	Good	Creme Wood Door Header
Room 4 (Bedroom)					
103.4.1	0.9 ⁽²⁾	0.2	95	Good	Creme Wood Baseboard
				(Inconclusive -	Scrape Sample Taken)
103.4.2	-0.1	-0.1	23	Good	Creme Wood Window Apron
103.4.3	0.3	0.0	95	Good	Creme Plaster Wall
103.4.4	0.2	-0.1	95	Good	White Plaster Ceiling
103.4.5	5.5	0.2	95	Good	Creme Wood Door Jamb
Room 5 (Rear Foyer)					
103.5.1	-1.2	-0.3	23	Good	Black Concrete Step
103.5.2	-1.6	-0.3	23	Good	White Plaster Wall
103.5.3	-0.2	-0.1	23	Good	White Wood Door

(2) Lab Analysis: **negative**(Result = 0.11% Lead, Action Level \geq 0.5% Lead)

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 103
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 6 (Kitchen/Dining Area)					
103.6.1	0.3	-0.1	23	Good	White Metal Cabine'
103.6.2	-0.7	0.0	23	Good	White Sheetrock Ceiling
103.6.3	-0.5	-0.1	23	Good	White Sheetrock Wall
103.6.4	0.2	-0.1	23	Good	White Wood Window Casing
103.6.5	-0.3	-0.1	23	Good	White Wood Cabinet
103.6.6	-0.2	-0.1	23	Good	White Wood Vent Trim
Room 7 (Basement)					
103.7.1	-0.8	-0.2	23	Good	White Concrete Wall
103.7.2	3.1	1.0	23	Good	Gray Wood Stair Rail
103.7.3	-0.1	-0.3	23	Good	Gray Concrete Floor
103.7.4	0.1	-0.2	23	Good	White Wood Wall Partition
103.7.5	0.6	0.9	95	Good	White Wood Door Casing
EXTERIOR XRF READINGS					
103.1	-1.7	-0.3	23	Good	Creme Concrete Porch Apron
103.2	0.1	-0.2	23	Poor	Gray Concrete Floor
103.3	-1.2	-0.2	23	Good	Creme Concrete Porch Ceiling

103.4	-0.5	-0.1	23	Good	Brown Wood Screen Frame
103.5	-0.2	-0.1	23	Good	White Wood Window Apron
103.6	-0.8	-0.2	23	Good	Creme Concrete Wall

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 103
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

EXTERIOR XRF READINGS (Continued)

103.7	0.0	-0.1	23	Good	White Wood Window Apron
103.8	0.2	-0.1	95	Good	Brown Wood Eave
7094050294103402	0.6	0.6	95	N/A	Calibration Check

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 105

Type Quarters: Three Bedroom, One Story (approx. 2236 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 105 is a three bedroom, one bathroom unit with a full basement.
2. In the interior of Quarters No. 105, positive levels of lead-based paint were detected on the crown molding trim, baseboards, attic scuttle, and various door frame components (see floorplan). All walls, ceilings, and doors tested negative for LBP. No lead-based paint was detected on the exterior surfaces of Quarters No. 105.
3. A photograph of Quarters No. 105 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 105 follows the XRF field readings.

CESAD-EN-FL

11 October 1994

Field XRF Readings for Quarters 105
Ft. McClellan, AL

Date Surveyed: 05 February 1994

Surveyors: JS,BS

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094050294103402	0.7	0.6	95	N/A	Calibration Check

INTERIOR XRF READINGS

Room 1 (Living Room)

105.1.1	0.9 ⁽¹⁾	0.5	95	Good	White Wood Door Casing (Inconclusive-Scrape Sample Taken)
105.1.2	0.4	0.0	95	Good	White Plaster Wall
105.1.3	1.1 ⁽²⁾	0.2	95	Good	White Wood Baseboard (Inconclusive - Scrape Sample Taken)
105.1.4	-1.1	-0.3	95	Good	White Plaster Ceiling
105.1.5	1.4	0.2	95	Good	White Wood Crown Molding
105.1.6	0.5	0.1	95	Good	White Wood Window Sill
105.1.7	-0.4	-0.1	23	Good	White Wood Window Casing
105.1.8	0.8 ⁽³⁾	0.2	95	Good	White Wood Door

			(Inconclusive -See Scrape ID# Sample 105.1.1)			
105.2.12	1.1	0.1	23	Good	Duplicate	
7094020594114001	0.5	0.6	95	N/A	Calibration Check	

Room 3 (Rear Foyer)

105.3.1	-0.6	-0.0	23	Good	White Wood Door
105.3.2	0.3	0.0	23	Good	White Wood Door Casing

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 105
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 3 (Continued)					
105.3.3	-0.7	-0.2	23	Good	White Plaster Wall
105.3.4	-0.2	-0.2	23	Good	Black Concrete Step
105.3.5	-0.2	-0.2	23	Good	White Plaster Ceiling
Room 4 (Bedroom)					
105.4.1	-1.1	-0.2	95	Good	White Plaster Ceiling
105.4.2	1.5	0.1	95	Good	White Wood Crown Molding
105.4.3	0.1	0.0	95	Good	White Plaster Wall
105.4.4	0.3	-0.1	23	Good	White Wood Window Sash
105.4.5	-0.4	-0.1	23	Good	White Wood Window Sill
105.4.6	1.7	0.5	23	Good	White Wood Baseboard

105.4.7	0.8	0.2	95	Good	White Wood Door Jamb
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(Inconclusive-See Sample ID# 105.5.2)

Room 5 (Bedroom)

105.5.1	0.6	0.2	95	Good	White Wood Shelf Support
105.5.2	0.6	0.2	95	Good	White Wood Door Jamb
105.5.3	-0.7	-0.1	23	Good	White Wood Window Apron
105.5.4	1.4	0.2	95	Good	White Wood Crown Molding
105.5.5	0.5	0.1	95	Good	White Wood Door

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 105
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 6 (Bedroom)					
105.6.1	0.0	0.2	23	Good	White Wood Baseboard
105.6.2	1.8	0.5	23	Good	White Wood Door Casing
105.6.3	0.3	0.0	95	Good	White Plaster Wall
105.6.4	-0.2	-0.1	23	Good	White Wood Window Casing
Room 7 (Hall/Bath)					
105.7.1	0.1	-0.1	95	Good	White Plaster Ceiling
105.7.2	1.5	0.2	95	Good	White Wood Attic

Scuttle

Room 8 (Basement)

105.8.1	4.6	1.9	23	Good	Gray Step
105.8.1	5.5	2.5	23	Good	Duplicate
7094020594124001	0.3	0.6	95	N/A	Calibration Check
105.8.2	-1.7	-0.3	23	Good	White Concrete Wall
105.8.3	1.0 ⁽⁴⁾	1.0	95	Good	Green Wood Door Casing (Inconclusive-Scrape Sample Taken)
105.8.4	-0.6	-0.2	23	Good	White Wood Wall Partition
105.8.5	0.4	0.3	95	Good	Gray Wood Porch Hatch

(⁴) Lab Analysis: **positive** (Result = 6.34% Lead, Action Level ≥ 0.5% Lead)

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

Field XRF Readings for Quarters 105
Ft. McClellan, AL

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

EXTERIOR XRF READINGS

105.1	0.2	-0.1	23	Good	Brown Wood Screen Frame
105.2	-0.1	-0.0	23	Good	White Wood Window Apron
105.3	-1.5	-0.2	23	Good	White Concrete Porch Wall
105.4	-1.5	-0.2	23	Good	White Concrete Porch

	105.5	-0.9	-0.3	23	Good	Ceiling Gray Concrete Porch Floor
	105.6	-0.1	-0.1	95	Good	Brown Wood Eave
	105.7	0.0	-0.0	23	Good	White Wood Window Apron
	105.8	-1.2	-0.3	23	Good	White Concrete Wall
7094020594131501	0.4		0.6	95	N/A	Calibration Check
7094020594131501	0.6		0.6	95	N/A	Calibration Check
7094050294142502	0.4		0.6	95	N/A	Calibration Check
	1.02	1.1	1.1	95	N/A	NIST Standard

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

CESAD-EN-FL

11 October 1994

**Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 106

Type Quarters: Three Bedroom, One Story (approx. 2236 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 106 is a three bedroom, one bathroom unit with a full basement.

2. In the interior of Quarters No. 106, positive levels of lead-based paint were detected on the crown molding trim, various baseboards (see floorplan), attic scuttle, and some door frame components (see floorplan). All walls, ceilings, and doors tested negative for LBP. No lead-based paint was detected on the exterior surfaces of Quarters No. 105.

3. A photograph of Quarters No. 106 appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 106 follows the field XRF readings.

CESAD-EN-FL

11 October 1994

**Field XRF Readings for Quarters 106
Ft. McClellan, AL**

Date Surveyed: 07 February 1994
Surveyors: BS

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
70940207071501	0.5	0.6	95	N/A	Calibration Check
70940207071501	0.4	0.6	95	N/A	Calibration Check
70940207071501	0.6	0.6	95	N/A	Calibration Check
70940207071501	0.6	0.6	95	N/A	Calibration Check
70940207071501	0.4	0.6	95	N/A	Calibration Check

0000	-0.2	-0.1	95	N/A	Blank
1.02	0.8	1.1	95	N/A	NIST Standard

Room 1 (Living Room)

106.1.1	6.7	1.1	23	Good	White Wood Door Header
106.1.2	0.3	0.1	23	Good	Creme Wood Door Casing
106.1.3	0.8	0.1	95	Good	Creme Wood Door
				(Inconclusive-See Sample ID# 106.2.2)	
106.1.4	0.8	0.1	95	Good	Creme Wood Baseboard
				(Inconclusive-See Sample ID# 106.2.1)	
106.1.5	0.4	0.0	95	Good	Creme Plaster Wall
106.1.6	0.1	-0.1	23	Good	Creme Wood Window Sill
106.1.7	-0.3	-0.1	23	Good	Creme Wood Window Casing
106.1.8	-0.4	-0.0	23	Good	White Plaster Ceiling
106.1.9	2.9	0.1	95	Good	Creme Wood Crown Molding
106.1.10	0.4	-0.3	95	Good	Creme Wood Door Jamb

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 106
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

Room 2 (Kitchen/Dining Area)

106.2.1	0.2	-0.1	95	Good	Creme Wood Baseboard
106.2.2	0.6	0.1	95	Good	Creme Wood Door
106.2.3	0.4	-0.3	95	Good	White Wood Shelf

106.2.4	-0.4	-0.2	23	Good	Stained Wood Floor
106.2.5	0.2	-0.1	23	Good	White Wood Heat Vent
106.2.6	0.3	-0.0	23	Good	Creme Sheetrock Ceiling
106.2.7	1.3	0.1	95	Good	Creme Wood Door Jamb
				(Inconclusive-See	Sample ID# 106.1.10)
106.2.8	-0.0	-0.2	23	Good	Creme Wood Cabinet
106.2.9	0.3	-0.1	23	Good	Cream Metal Cabinet
106.2.10	0.2	-0.1	23	Good	Creme Wood Window Sash
106.2.10	-0.0	-0.1	23	Good	Duplicate
7094070294085002	0.4	0.5	95	N/A	Calibration Check

Room 3 (Rear Foyer)

106.3.1	-0.8	-0.2	23	Good	White Wood Door
106.3.2	-0.6	-0.2	23	Good	White Wood Door Casing
106.3.3	-2.2	-0.2	23	Good	White Plaster Wall
106.3.4	-1.0	-0.2	23	Fair	Gray Concrete Step
106.3.5	-0.7	-0.2	23	Good	White Plaster Ceiling

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 106
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

Room 4 (Bedroom)

106.4.1	0.1	-0.1	23	Good	White Plaster Ceil'
106.4.2	1.9	0.1	95	Good	Creme Wood Crown Molding
106.4.3	-0.7	0.0	23	Good	Creme Plaster Wall
106.4.4	0.2	-0.1	23	Good	Creme Wood Window Apron
106.4.5	2.5	0.2	95	Good	Creme Wood Door Jamb

Room 5 (Bedroom)

106.5.1	3.5	0.4	95	Good	Creme Wood Baseboard
106.5.2	0.2	0.0	95	Good	White Wood Shelf Support
106.5.3	-0.4	-0.2	23	Good	Stained Wood Floor
106.5.4	-0.5	-0.1	23	Good	Creme Plaster Wall
106.5.5	2.7	0.1	95	Good	Creme Wood Door Casing

Room 6 (Bedroom)

106.6.1	-0.4	-0.1	23	Good	Creme Wood Window Sill
106.6.2	0.2	-0.0	23	Good	White Wood Shelf
106.6.3	1.3 ⁽¹⁾	0.2	95	Good	Creme Wood Door (Inconclusive-Scrape Sample Taken)
106.6.4	0.3	0.0	95	Good	Creme Plaster Wall
106.6.5	0.1	-0.2	23	Good	Stained Wood Floor

⁽¹⁾ Lab Analysis: **negative** (Result = 0.21% Lead, Action Level \geq 0.5% Lead)

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 106
Ft. McClellan, AL**

ID#	K-Shell	L-Shell	Time	Condition	Comments
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mg/cm² mg/cm² seconds

=====

Room 7 (Bathroom and Hallway)

106.7.1	-0.0	-0.1	23	Good	White Plaster Ceiling
106.7.2	1.6	0.0	95	Good	White Wood Attic Scuttle
106.7.3	1.3	0.1	95	Good	Creme Wood Door

(Inconclusive-See results for scrape Sample ID#

106.6.3)

Room 8 (Basement)

106.8.1	0.3	0.3	95	Good	Green Wood Porch Hatch
106.8.2	-0.7	-0.2	23	Good	White Concrete Wall
106.8.2	-2.3	-0.3	23	Good	Duplicate
7094070294095202	0.5	0.6	95	N/A	Calibration Check
106.8.3	-0.6	0.2	23	Fair	Gray Wood Step
106.8.4	1.7	1.7	95	Good	Green Wood Door Casing

EXTERIOR XRF READINGS

106.1	-0.1	-0.2	23	Good	Creme Concrete Window Apron
106.2	-0.2	-0.2	23	Good	Brown Wood Screen Frame
106.3	-1.1	-0.3	23	Good	Gray Concrete Porch Floor
106.4	0.1	0.0	95	Good	White Wood Window Apron
106.5	-1.4	-0.2	23	Good	Creme Concrete Porch Wall

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

Field XRF Readings for Quarters 106
Ft. McClellan, AL

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
EXTERIOR XRF READINGS (Continued)					
106.6	-1.0	-0.2	23	Good	Creme Concrete Porch Ceiling
106.7	0.6	0.5	95	Good	Brown Wood Roof Rafter
106.8	-0.6	-0.2	23	Good	Creme Concrete Wall
106.9	-0.4	-0.0	23	Good	White Wood Window Apron
7094070294102002	0.5	0.5	95	N/A	Calibration Check

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

Drennen Family Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey

Quarters No. 107

Type Quarters: Three Bedroom, One Story (approx. 2236 sq. ft.)
Date Constructed: 1930
Type Construction: Concrete with wood trim

Survey Summary:

1. Quarters No. 107 is a three bedroom, one bathroom unit with a full basement.
2. In the interior of Quarters No. 107, positive levels of lead-based paint were detected on the crown molding trim, baseboards, and various door frame components (see floorplan). All other interior surfaces tested negative for LBP. No lead-based was detected on the exterior surfaces.
3. A photograph of Quarters No. 25B appears below. The actual field XRF readings appear on the following pages. A generalized floorplan showing the specific locations in which positive readings occurred at Quarters No. 107 follows the field XRF readings.

**Field XRF Readings for Quarters 107
Ft. McClellan, AL**

Date Surveyed: 07 February 1994
Surveyors: JS,BS

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094070294102002	0.2	0.5	95	N/A	Calibration Check
INTERIOR XRF READINGS					
Room 1 (Living Room)					
107.1.1	0.5	-0.0	95	Good	White Plaster Ceiling
107.1.2	0.6	0.1	81	Good	White Plaster Wall
107.1.3	1.7	0.1	95	Good	White Wood Crown Molding
107.1.4	0.0	-0.1	20	Good	White Wood Window Casing
107.1.5	0.1	-0.1	20	Good	White Wood Window Sill
107.1.6	0.0	-0.1	20	Good	White Wood Window Sash
107.1.7	1.4	0.2	81	Good	White Wood Baseboard
107.1.8	0.5	0.1	95	Good	White Wood Door Casing
107.1.9	0.7	0.0	95	Good	White Wood Door
107.2.2)	(Inconclusive-See results for scrape Sample ID#				
107.1.10	0.4	0.0	81	Good	White Wood Door Jamb

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is

total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 107
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 2 (Dining Room/Kitchen)					
107.2.1	0.5	0.0	95	Good	White Wood Cabinet
107.2.2	0.3 ⁽¹⁾	-0.1	81	Good	White Wood Door (Inconclusive -Scrape Sample Taken)
107.2.3	0.2	0.0	95	Good	White Wood Shelf
107.2.4	-0.0	-0.1	20	Good	White Wood Window Sill
107.2.5	-0.1	-0.1	20	Good	White Wood Window Casing
107.2.6	-0.1	-0.1	20	Good	White Wood Window Sash
107.2.7	1.3	0.1	81	Good	White Plaster Wall
107.2.8	-0.0	-0.1	95	Good	White Wood Baseboard
107.2.9	-1.2	-0.2	23	Good	Stained Wood Floor
107.2.10	1.1 ⁽²⁾	0.1	81	Good	White Wood Door (Inconclusive-Scrape Sample Taken)
107.2.11	1.0	0.0	95	Good	White Plaster Ceiling (Inconclusive-See Sample ID# 107.4.3)
107.2.12	1.2	0.1	81	Good	White Wood Door Casing (Inconclusive-See Sample ID# 107.1.4)
Room 3 (Basement)					
107.3.1	-0.3	-0.1	81	Good	White Wood Door
107.3.2	-0.8	-0.2	20	Good	White Concrete Wall
107.3.3	0.3	0.2	95	Good	Green Access Hatch

⁽¹⁾ Lab Analysis: **negative** (Result = 0.16% Lead, Action Level ≥ 0.5% Lead)

⁽²⁾ Lab Analysis: **negative** (Result = 0.13% Lead, Action Level ≥ 0.5% Lead)

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 107
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 3 (Continued)					
107.3.4	0.3	0.3	20	Poor	Gray Step
107.3.5	-0.7	-0.1	20	Good	White Wood Wall
107.3.6	0.3	0.3	95	Good	Gray Stair Stringer
107.3.7	0.8	0.6	81	Good	White Wood Door Jamb
(Inconclusive-See Sample ID# 104.4.4)					
Room 4 (Rear Foyer)					
107.4.1	-1.0	-0.2	23	Good	White Plaster Wall
107.4.2	-2.0	-0.2	23	Fair	Gray Concrete Step
107.4.3	-2.1	-0.3	23	Good	White Plaster Ceiling
107.4.4	5.0	0.8	23	Good	White Wood Door Jamb
Room 5 (Bedroom)					
107.5.1	0.6	0.1	81	Good	White Plaster Wall
107.5.2	0.8	0.1	81	Good	White Wood Baseboard
(Inconclusive-See Sample ID# 107.1.7)					
107.5.3	-0.2	-0.1	23	Good	White Wood Window Sill
107.5.4	1.6	0.1	81	Good	White Wood Crown Molding
107.5.5	0.1	-0.0	23	Good	White Wood Window Frame
107.5.6	-0.3	-0.2	23	Good	White Wood Window Apron
107.5.7	-0.2	-0.0	95	Good	White Plaster Ceiling
107.5.8	0.4	0.0	81	Good	White Wood Door

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 October 1994

**Field XRF Readings for Quarters 107
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 6 (Bedroom)					
107.6.1	0.7	0.1	95	Good	White Plaster Wall (Inconclusive-See Sample ID# 107.5.1)
107.6.2	-1.7	-0.1	20	Good	Stained Wood Floor
107.6.2	-1.2	-0.1	20	Good	Duplicate
7094020794114501	0.9	1.2	81	N/A	Calibration Check
107.6.3	0.3	-0.1	23	Good	White Wood Window Casing
107.6.3	-0.0	-0.1	23	Good	Duplicate
7094020794114501	0.3	0.6	95	Good	Calibration Check
107.6.4	0.5	0.0	81	Poor	White Wood Closet Shelf Support
107.6.5	0.7 ⁽³⁾	0.1	81	Good	White Wood Door Header (Inconclusive-Scrape Sample Taken)
107.6.6	0.8	0.1	95	Good	White Wood Baseboard (Inconclusive-See Sample ID# 107.1.7)
107.6.7	1.7	0.1	326	Good	White Wood Crown Molding
107.6.8	0.4	0.0	95	Good	White Plaster
Ceiling					
Room 7 (Bedroom)					
107.7.1	0.2	-0.1	23	Good	White Wood Window Sash

(³) Lab Analysis: **negative** (Result = 0.12% Lead, Action Level ≥ 0.5% Lead)

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 October 1994

**Field XRF Readings for Quarters 107
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 7 (Continued)					
107.7.2	-0.2	-0.1	23	Good	White Wood Window Casing
107.7.3	0.6	0.1	95	Good	White Wood Shelf Support
107.7.4	1.8	0.1	81	Good	White Wood Crown Molding
107.7.5	0.7	0.0	81	Good	White Wood Baseboard
107.7.6	0.8	0.1	95	Good	(Inconclusive-See Sample ID# 107.1.7) White Plaster Wall
107.7.7	0.2	-0.1	95	Good	(Inconclusive-See Sample ID# 107.5.1) White Plaster Ceiling
107.7.8	0.4	0.0	81	Good	White Wood Door
Room 8 (Bathroom and Hallway)					
107.8.1	0.0	0.0	95	Good	White Wood Attic Scuttle
107.8.2	0.1	0.1	81	Good	White Plaster Wall
107.8.3	0.3	0.0	95	Good	White Wood Door
107.8.4	0.6	0.0	81	Good	White Wood Door Casing
7094020794123502	1.1	1.3	81	N/A	Calibration Check

EXTERIOR XRF READINGS

107.1	-0.4	-0.1	23	Good	Brown Wood Screen Frame
107.2	0.2	-0.0	23	Good	White Wood Window Apron
107.3	-0.2	-0.3	23	Good	Gray Concrete Floor

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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11 October 1994

**Field XRF Readings for Quarters 107
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

EXTERIOR XRF READINGS (Continued)

107.4	-1.0	-0.2	23	Good	White Concrete Wall
107.5	-1.2	-0.2	23	Good	White Plaster Ceiling
107.6	0.6	0.1	95	Good	Brown Wood Eave
107.7	-0.8	-0.2	23	Good	White Concrete Wall
107.8	0.1	-0.0	23	Poor	White Wood Window Apron
107.9	0.2	0.8	95	Poor	Brown Basement Hatch
107.10	0.6	0.3	95	Good	Brown Wood Eave
7094020794123501	0.4	0.4	95	N/A	Calibration Check

K-shell and L-shell columns are lead concentrations in mg/cm^2 . K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 128



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING NO. 128
 FAMILY FITNESS CENTER
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building No. 128 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm^2 . Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building 128 (Family Fitness Center) is a one story structure originally built in 1967 (see figures). This building was formerly a roller skating rink, but has been converted to a fitness center. The walls are constructed of brick with metal upper trim and flashing. The doors and door components (e.g., casings, jambs, headers, etc.) are metal with concrete and metal overhangs. No windows are present.

8. The interior of this building consists of concrete, block and sheetrock walls. There are wood and metal doors and door components. The floors are covered with carpet and tile. Dropped tile ceilings are standard. The skating rink has been divided into two sections by a sheetrock wall. Other rooms appear to have been renovated.

9. A total of forty three (43) XRF readings were made on the interior of this building. None were positive for LBP. Twelve (12) exterior XRF readings were taken. One XRF reading and three lab analysis of scrape samples taken on the exterior of the building were positive for LBP (see Table 1).

Interior Summary

10. No positive levels of lead-based paint were detected on the interior of this building.

Exterior Summary

11. Based on the survey results, metal doors, door components (e.g., casings, headers, jambs, etc.) and painted metal awnings above the doors should be considered positive for LBP. The fire hydrant at the rear of the building tested positive. Yellow paint is visible beneath the beige paint on the fire hydrant. This type yellow paint typically contains lead.

Paint Condition

12. Overall, the paint on the interior of this building is in good condition. The paint on the exterior is in fair condition.

Prepared By: Keith Bates
Keith Bates
Geologist

Reviewed By: Ray Willingham
Ray Willingham
Geologist

encls

Date Surveyed: 07 February 1994
 Surveyors: KB, NK

Table 1
Ft. McClellan Building No. 128
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020794071501	1.3	1.3	81	N/A	Calibration Check
7094020794071501	1.2	1.3	81	N/A	Calibration Check
7094020794071501	1.2	1.3	81	N/A	Calibration Check
7094020794071501	1.3	1.3	81	N/A	Calibration Check
7094020794071501	1.2	1.3	81	N/A	Calibration Check
0000	0.2	-0.1	81	N/A	Blank
1.63	1.3	1.5	81	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Women's Shower, Restroom and Sauna)

128.1.1	-0.7	-0.2	20	Good	White Concrete Block Wall
128.1.2	-0.8	-0.2	20	Good	White Concrete Column
128.1.3	0.4	-0.0	81	Good	White Metal Stall
128.1.4	0.1	-0.1	20	Good	White Wood Trim
128.1.5	0.2	-0.1	20	Good	Grey Wood Door
128.1.6	-0.0	-0.2	81	Good	Grey Metal Door Jamb
128.1.7	-0.4	-0.1	20	Good	Stained Wood Cabinet
128.1.8	0.4	-0.1	81	Good	Grey Metal Door

Room 2 (Men's Shower, Restroom and Sauna)

128.2.1	-1.8	-0.2	20	Good	White Concrete Block Wall
128.2.2	-0.8	-0.1	20	Good	Stained Wood Cabinet
128.2.3	0.2	-0.1	20	Good	White Wood Trim
128.2.4	0.5	-0.1	81	Good	Grey Metal Door
128.2.5	0.0	-0.2	81	Good	Grey Metal Door Jamb
128.2.6	-0.6	-0.2	20	Good	Cream Concrete Block Wall
128.2.7	-1.7	0.1	20	Good	Cream Concrete Pad
128.2.8	-0.5	-0.1	20	Good	Grey Wood Door

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per guidelines.

Table 1 (continued)
Ft. McClellan Building No. 128
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 3 (Main Weight Room)					
128.3.1	-0.7	-0.1	20	Good	Red Wood Baseboard
128.3.2	-1.9	-0.2	20	Good	White Concrete Block Wall
128.3.3	-2.7	-0.2	20	Good	Blue Concrete Floor
128.3.4	0.4	-0.1	81	Good	Grey Metal Door
128.3.5	-0.1	-0.1	81	Good	Grey Metal Door Jamb
128.3.6	-1.2	-0.2	20	Fair	Beige Concrete Block Wall
128.3.7	-0.1	-0.1	20	Good	Grey Wood Trim
128.3.8	-2.0	-0.1	20	Good	White Concrete Ceiling
128.3.9	-0.3	-0.1	20	Good	Beige Wood Wall
128.3.9	0.0	-0.1	20	Good	Duplicate
7094020794092502	1.1	1.2	81	N/A	Calibration Check
128.3.10	0.3	0.3	20	Good	Dark Grey Metal Door
128.3.11	-0.1	-0.1	20	Good	Grey Wood Mirror Casing
128.3.12	-0.9	-0.2	20	Good	Red Concrete Block Wall
128.3.13	-1.0	-0.2	20	Good	White Concrete Block Wall
128.3.14	-0.3	-0.1	20	Good	White Concrete Block Wall
Room 4 (Large Aerobics Room)					
128.4.1	0.1	-0.1	20	Good	White Sheetrock Wall
128.4.2	-0.1	-0.1	20	Good	Grey Wood Chair Rail
128.4.3	-0.5	-0.1	20	Good	Red Wood Baseboard
128.4.4	-1.3	-0.2	20	Good	White Concrete Block Wall
128.4.5	0.4	-0.1	81	Good	Grey Metal Door
128.4.6	0.0	-0.1	20	Good	Grey Wood Mirror Casing

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 128
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 5 (Small Aerobics Room)					
128.5.1	-1.4	-0.1	20	Good	White Concrete Wall
128.5.2	0.6	0.2	81	Good	Grey Metal Door
128.5.3	0.4	0.2	81	Good	Grey Metal Door Jamb
Room 6 (Office Area)					
128.6.1	-0.3	-0.2	20	Good	White Concrete Block Wall
128.6.2	0.0	0.1	20	Good	Grey Metal Door Casing
128.6.3	0.5	-0.1	81	Good	Grey Metal Door
128.6.4	0.0	0.0	20	Good	Red Wood Cabinet
128.6.4	0.2	0.0	20	Good	Duplicate
7094020794102502	0.5	0.5	81	N/A	Calibration Check
EXTERIOR XRF READINGS					
7094020794132001	1.2	1.3	81	N/A	Calibration Check
7094020794132001	1.0	1.2	81	N/A	Calibration Check
7094020794132001	1.2	1.2	81	N/A	Calibration Check
128.1	-0.8	-0.1	20	Fair	Beige Concrete column
128.2	0.8 ⁽¹⁾	0.3	81	Fair	Brown Metal Door (Inconclusive - Scrape Sample Taken)
128.3	0.3	0.9	81	Good	Brown Metal Awning
128.4	-1.3	-0.1	81	Good	Brown Concrete Soffit
128.5	11.1	0.3	20	Fair	Beige Metal Fire Hydrant (Yellow Paint Beneath)

(1) Lab analysis positive. (Result = 4.42% Lead, Action level = 0.5% Lead)

Positive XRF readings (if any) are in Bold.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per guidelines.



Figure 1. Front view of Building 128.



Figure 2. Rear view of Building 128.

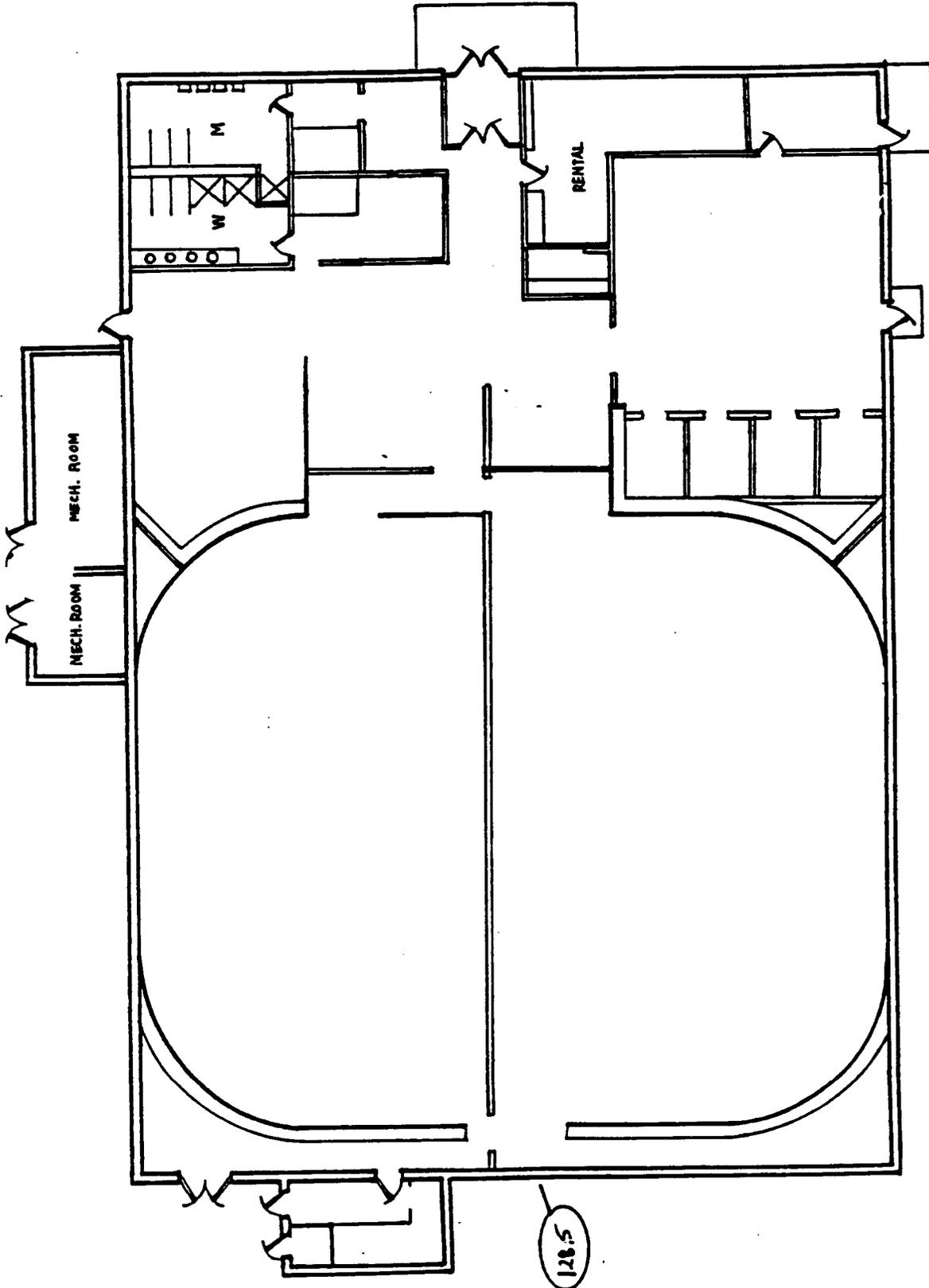
Table 1 (continued)
 Ft. McClellan Building No. 128
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
EXTERIOR XRF READINGS (continued)					
128.6	-2.5	-0.1	20	Fair	Beige Concrete Column
128.7	1.3 ⁽²⁾	0.8	81	Fair	Brown Metal Door
128.8	1.1 ⁽³⁾	0.8	81	Good	Brown Metal Door Jamb
128.9	-1.6	-0.1	20	Good	Beige Concrete Overhang
128.10	-1.3	0.0	20	Good	Beige Concrete Beam
128.11	-1.9	-0.1	20	Good	Beige Concrete Block
128.12	-0.1	0	81	Fair	Brown Metal Door
7094020794141002	1.1	1.3	81	N/A	Calibration Check
7094020794170501	1.1	1.2	81	N/A	Calibration Check
1.63	1.5	1.6	81	N/A	NIST Std. = 1.63

(2) Lab analysis positive. (Result = 3.91% Lead, Action level = 0.5% Lead)

(3) Lab analysis positive. (Result = 2.21% Lead, Action level = 0.5% Lead)

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD guidelines.



Generalized Floorplan - Not to Scale
 Only Locations of Positive XRF Readings (if any) Are Shown

Unit No. 128 ;
 Plate No. 1

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 129



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 129
 WORKSHOP
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 129 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. A photograph of the unit appears as Figure 1. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

09 August 1994

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building 129 (Workshop) is a one story concrete structure with wood trim, metal windows and a terra cotta tile roof.

8. The interior of this building has concrete walls and ceilings, wood doors and door components (some metal), and metal windows. The paint on the interior of this building is in poor condition.

9. A total of twenty six (26) XRF readings were made on the interior of this building. Thirteen (13) were positive for LBP. Seven (7) exterior XRF readings were taken. Four (4) were positive for LBP (see Table 1).

Interior Summary

10. Based on the results of the survey, it is reasonable to assume that the concrete walls, metal windows, wood doors and the wood and metal door components (e.g., jambs, casings, headers, etc.) contain positive levels of lead-based paint.

Exterior Summary

11. All exterior wood components (e.g., doors, door components, upper trim, soffits, etc.) and the metal windows should be considered positive for LBP.

Paint Condition

12. Overall, the paint on the interior and exterior of this building is in fair to poor condition.

Prepared By:


Keith Bates
Geologist

Reviewed By:


Ray Willingham
Geologist

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Date Surveyed: 08 February 1994
 Surveyors: KB, NK

Table 1
 Ft. McClellan Building No. 129
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020894071001	1.3	1.3	81	N/A	Calibration Check
7094020894071001	1.1	1.3	81	N/A	Calibration Check
7094020894071001	1.3	1.3	81	N/A	Calibration Check
7094020894071001	1.2	1.3	81	N/A	Calibration Check
7094020894071001	1.2	1.3	81	N/A	Calibration Check
0000	0.2	-0.1	81	N/A	Blank
1.63	1.4	1.6	81	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Main Workshop Area)

129.1.1	0.1	-0.0	20	Poor	White Lower Concrete Wall
129.1.2	0.6	0.2	326	Poor	White Metal Window Frame
129.1.3	2.4	0.1	20	Fair	Beige Upper Concrete Wall
129.1.4	0.1	0.0	20	Good	Beige Concrete Ceiling
129.1.5	-1.2	-0.0	20	Fair	Beige Concrete Window Sill
129.1.6	1.8	0.1	81	Poor	Beige Upper Concrete Wall
129.1.7	0.6	0.1	81	Fair	Beige Metal Window Frame
129.1.8	0.3	0.0	81	Good	Beige Concrete Ceiling
129.1.9	8.2	1.7	81	Fair	Beige Metal Door Jamb
129.1.10	5.0	0.9	20	Fair	Beige Wood Door Casing
129.1.11	5.0	1.9	20	Fair	Brown Wood Door Jamb
129.1.12	5.6	1.0	20	Fair	Beige Wood Door

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 129
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 2 (Storage Room)					
129.2.1	2.8	0.2	81	Fair	Beige Metal Window Frame
129.2.2	0.3	0.0	20	Good	Beige Concrete Ceiling
129.2.3	-0.2	-0.0	20	Poor	Beige Concrete Wall
Room 3 (Bathroom)					
129.3.1	-0.6	-0.1	20	Poor	Beige Concrete Wall
129.3.2	8.3	1.1	20	Fair	Beige Wood Door
129.3.3	5.9	1.3	81	Fair	Beige Metal Door Jamb
Room 4 (Storage Room)					
129.4.1	2.3	0.1	20	Poor	Beige Concrete Wall
129.4.2	0.5	-0.0	81	Poor	Beige Metal Window Frame
129.4.3	0.1	0.0	81	Good	Beige Concrete Ceiling
Room 5 (Storage Room)					
129.5.1	2.2	0.1	20	Poor	Beige Concrete Wall
129.5.2	0.6	-0.0	81	Poor	Beige Metal Window Frame
129.5.3	0.1	0.0	20	Good	Beige Concrete Ceiling
129.5.4	13.5	1.1	20	Fair	Beige Wood Door
Room 6 (Exterior Mechanical Room)					
129.6.1	2.5	2.4	20	Poor	Brown Wood Door

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per EPA Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 129
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
EXTERIOR XRF READINGS					
129.1	6.4	1.8	20	Poor	Brown Wood Door
129.2	-2.1	-0.2	20	Fair	White Concrete Wall
129.3	10.8	3.4	81	Fair	Brown Metal Window Frame
129.4	-1.3	-0.2	20	Good	Brown Concrete Window Sill
129.5	-0.5	-0.2	20	Good	White Concrete Door Casing
129.6	8.0	2.7	20	Good	Brown Wood Eave
129.7	5.7	1.8	20	Fair	Brown Screened Door
129.7	5.7	1.7	20	Fair	Duplicate
7094020894093502	1.1	1.3	81	N/A	Calibration Check

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

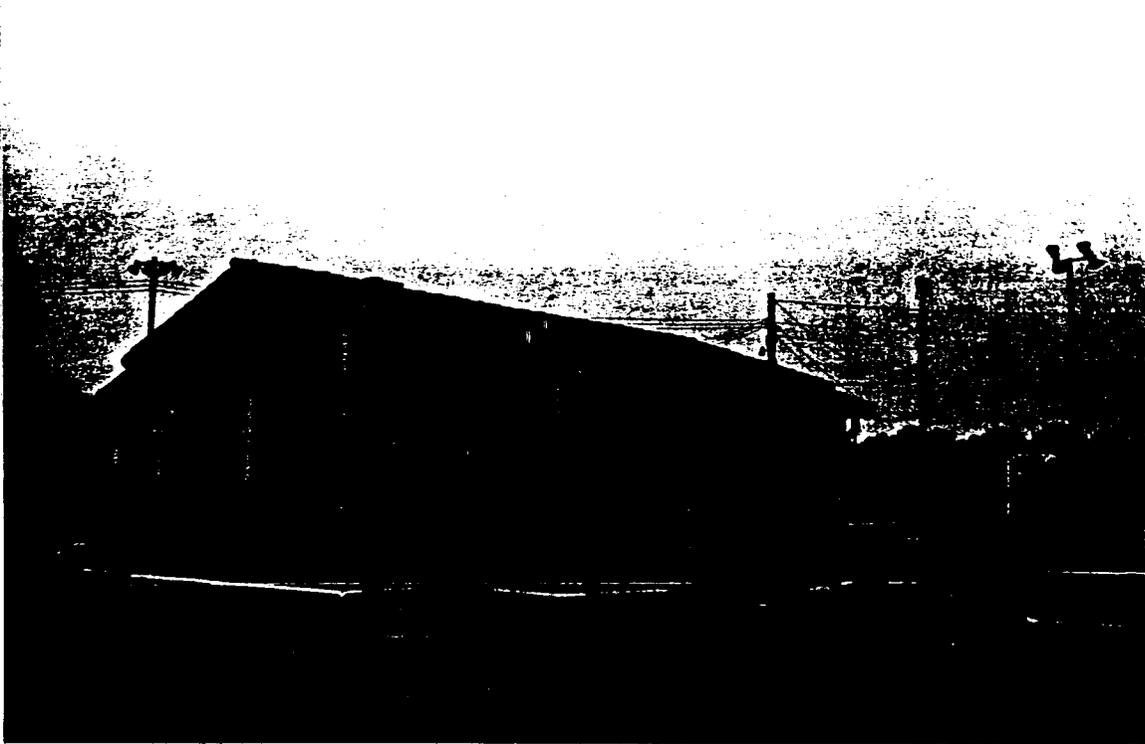
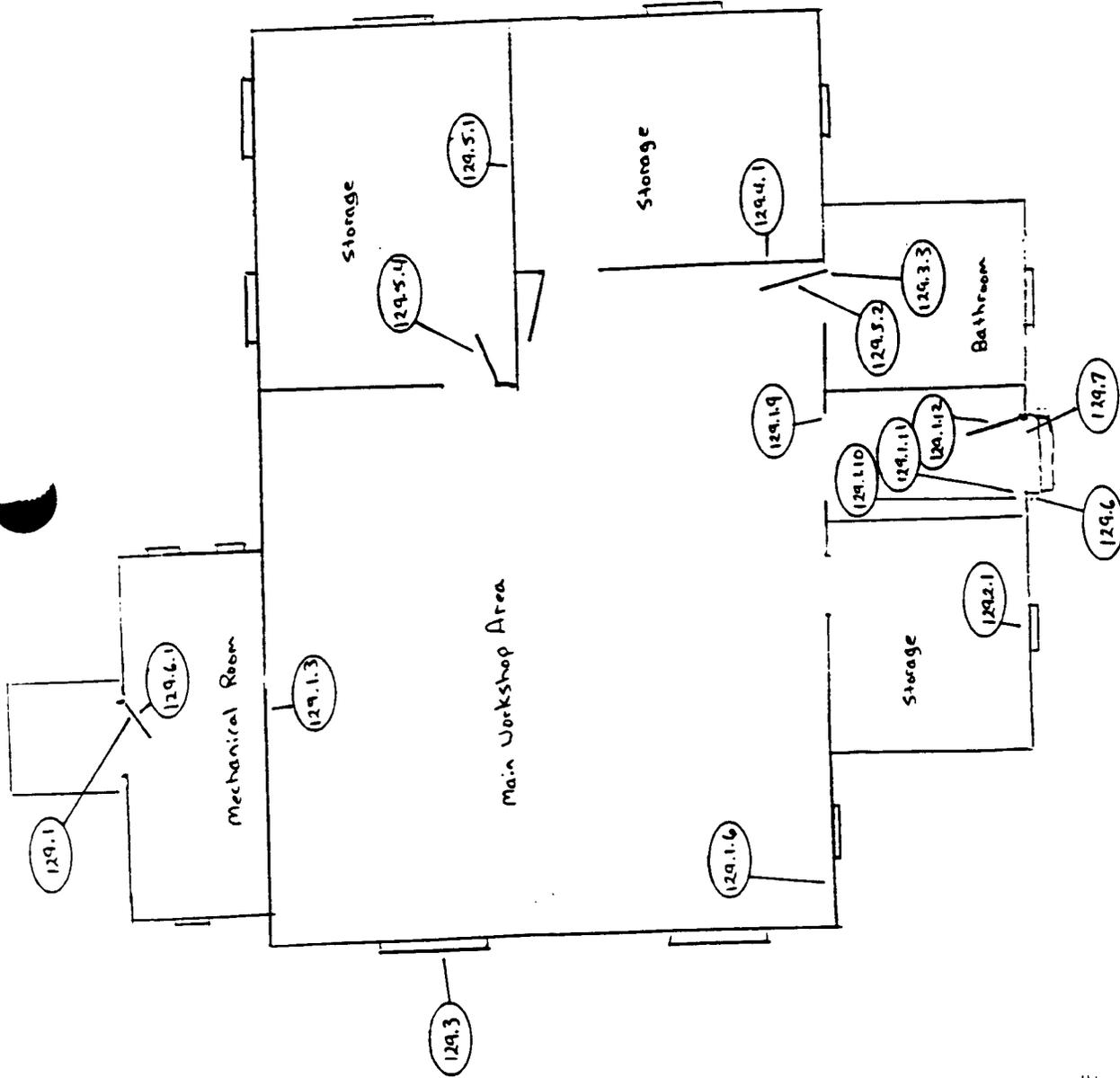


Figure 1. Front view of Building 129.



Generalized Floorplan - Not to Scale

Only Locations of Positive XRF Readings (if any) Are Shown

Unit No. 129
 Plate No. 1

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 130



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 130
 MILLER GYM
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 130 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

09 August 1994

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm^2 . Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building 130 (Miller Gym) was built in 1941. It is a one story brick and metal structure with metal doors and trim.

8. The interior of this building is divided into basketball courts, changing rooms, storage rooms and exercise rooms. Most of the interior components are wood. Various other components are composed of metal.

9. A total of forty four (44) XRF readings were made on the interior of this building. No positive results for LBP were detected. Nine (9) exterior XRF readings were taken. One was positive for LBP (see Table 1).

Interior Summary

10. No positive XRF readings were obtained on the interior of this building.

Exterior Summary

11. Except for the positive yellow paint beneath the brown paint on the telephone guide wire covers, no positive levels of lead-based paint were detected on the exterior of this building.

Paint Condition

12. Overall, the paint on the interior and exterior of this building is in good condition.

Prepared By:

Keith Bates
Keith Bates
Geologist

Reviewed By:

Ray Willingham
Ray Willingham
Geologist

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Date Surveyed: 04 February 1994
 Surveyors: KB, BS

Table 1
Ft. McClellan Building No. 130
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020494073001	1.3	1.4	81	N/A	Calibration Check
7094020494073001	1.2	1.3	81	N/A	Calibration Check
7094020494073001	1.3	1.3	81	N/A	Calibration Check
7094020494073001	1.2	1.4	81	N/A	Calibration Check
7094020494073001	1.4	1.3	81	N/A	Calibration Check
	1.63	1.4	81	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Women's Restroom)

130.1.1	-0.8	-0.2	20	Good	Green Concrete Wall
130.1.2	-0.3	-0.2	20	Good	Stained Wood Window Sill
130.1.3	-0.1	-0.1	20	Poor	White Glass Window Pane
130.1.4	0.6	0.3	81	Good	Yellow Metal Stall
130.1.5	0.0	-0.1	20	Good	Stained Wood Door Jamb
130.1.6	-0.4	-0.1	20	Good	Stained Wood Door
130.1.7	0.1	-0.1	20	Good	Stained Wood Door Casing
130.1.8	0.1	-0.1	20	Good	Stained Wood Paneled Wall
130.1.9	0.5	-0.1	81	Good	Brown Metal Door Jamb

Room 2 (Closet)

130.2.1	-1.2	-0.0	20	Good	Brown Concrete Wall
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K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 130
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 3 (Men's Restroom)					
130.3.1	-0.9	-0.2	20	Good	Green Concrete Wall
130.3.2	-1.0	-0.2	20	Good	Stained Wood Window Casing
130.3.3	0.4	0.4	81	Good	Green Metal Stall
130.3.4	0.0	-0.1	20	Good	Stained Wood Door Header
130.3.5	-0.3	-0.1	20	Good	Stained Wood Door
Room 4 (Entry Area)					
130.4.1	0.6	-0.1	81	Good	Red Metal Door
130.4.2	-0.1	-0.1	20	Good	Stained Wood Paneled Wall
130.4.3	0.4	-0.1	81	Good	Black Metal Door Casing
130.4.4	-0.1	-0.1	20	Good	Stained Wood Door
Room 5 (Storage)					
130.5.1	-0.1	-0.1	20	Good	Stained Wood Paneled Wall
Room 6 (Boxing Room)					
130.6.1	-0.1	-0.1	20	Good	Stained Wood Window Casing
130.6.2	-0.6	-0.1	20	Good	Stained Wood Door
130.6.2	-0.2	-0.1	20	Good	Duplicate
7094020494091501	1.2	1.3	81	N/A	Calibration Check
Room 7 (Entry Area)					
130.7.1	0.4	-0.1	81	Good	Red Metal Door Jamb

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 130
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments

Room 8 (Men's Dressing and Shower Area)					
130.8.1	-0.1	-0.2	20	Good	Blue Concrete Wall
130.8.2	0.5	0.2	81	Good	Blue Metal Stall
130.8.3	-0.2	-0.1	20	Good	Stained Wood Door Jamb
130.8.4	-0.6	-0.2	20	Good	Blue Concrete Block Wall
Room 9 (Women's Dressing and Shower Area)					
130.9.1	-1.2	-0.2	20	Good	White Concrete Wall
130.9.2	-0.2	-0.1	20	Good	Stained Wood Window Apron
130.9.3	0.5	0.1	81	Good	Yellow Metal Stall
130.9.4	-1.1	-0.2	20	Good	Stained Wood Paneled Wall
Room 10 (Office)					
130.10.1	0.4	-0.1	81	Good	Brown Metal Door Jamb
Room 11 (Equipment Room)					
130.11.1	-0.5	-0.1	20	Good	Stained Wood Door
Room 12 (Main Gym Area)					
130.12.1	0.8	0.3	326	Good	White Wood Rafter
130.12.2	-0.3	-0.2	20	Good	White Wood Wall
130.12.3	0.6	0.2	81	Good	White Wood Rafter
130.12.4	-1.5	-0.1	20	Good	White Concrete Support
130.12.5	-0.0	-0.0	81	Good	White Wood Ceiling
130.12.6	-0.4	-0.1	20	Good	Stained Wood Trim
130.12.7	0.3	-0.0	81	Good	Brown Metal Door

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 130
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments

Room 12 (Main Gym Area - continued)					
130.12.8	-1.1	-0.1	20	Good	Yellow Paint on Stained Wood Floor
130.12.9	-0.6	-0.1	20	Good	Stained Wood Bleacher
130.12.10	-0.6	-0.1	20	Good	Stained Wood Floor
130.12.11	-0.1	-0.1	20	Good	White Wood Wall
130.12.11	-0.1	-0.1	20	Good	Duplicate
7094040294101102	1.3	1.2	81	N/A	Calibration Check
EXTERIOR XRF READINGS					
7094020494125302	1.2	1.4	81	N/A	Calibration Check
7094020494125302	1.3	1.4	81	N/A	Calibration Check
7094020494125302	1.2	1.4	81	N/A	Calibration Check
130.1	0.6	1.3	81	Good	Green Metal Upper Trim
130.2	-1.9	-0.1	20	Good	White Concrete Upper Trim
130.3	-0.7	-0.1	20	Good	White Concrete Overhang
130.4	0.2	-0.1	81	Good	Brown Metal Door
130.5	0.5	1.1	81	Good	Green Metal Downspout
130.6	0.3	1.0	20	Good	Brown Concrete Chimney Support
130.7	0.0	0	81	Fair	Silver Metal Chimney
130.8	0.5	-0.1	81	Good	Brown Metal Door
130.9	2.3	1.3	20	Good	Brown Metal Guide Wire Cover (Yellow paint beneath)
7094020494133501	1.1	1.2	81	N/A	Calibration Check

Positive XRF readings (if any) are in **Bold**.

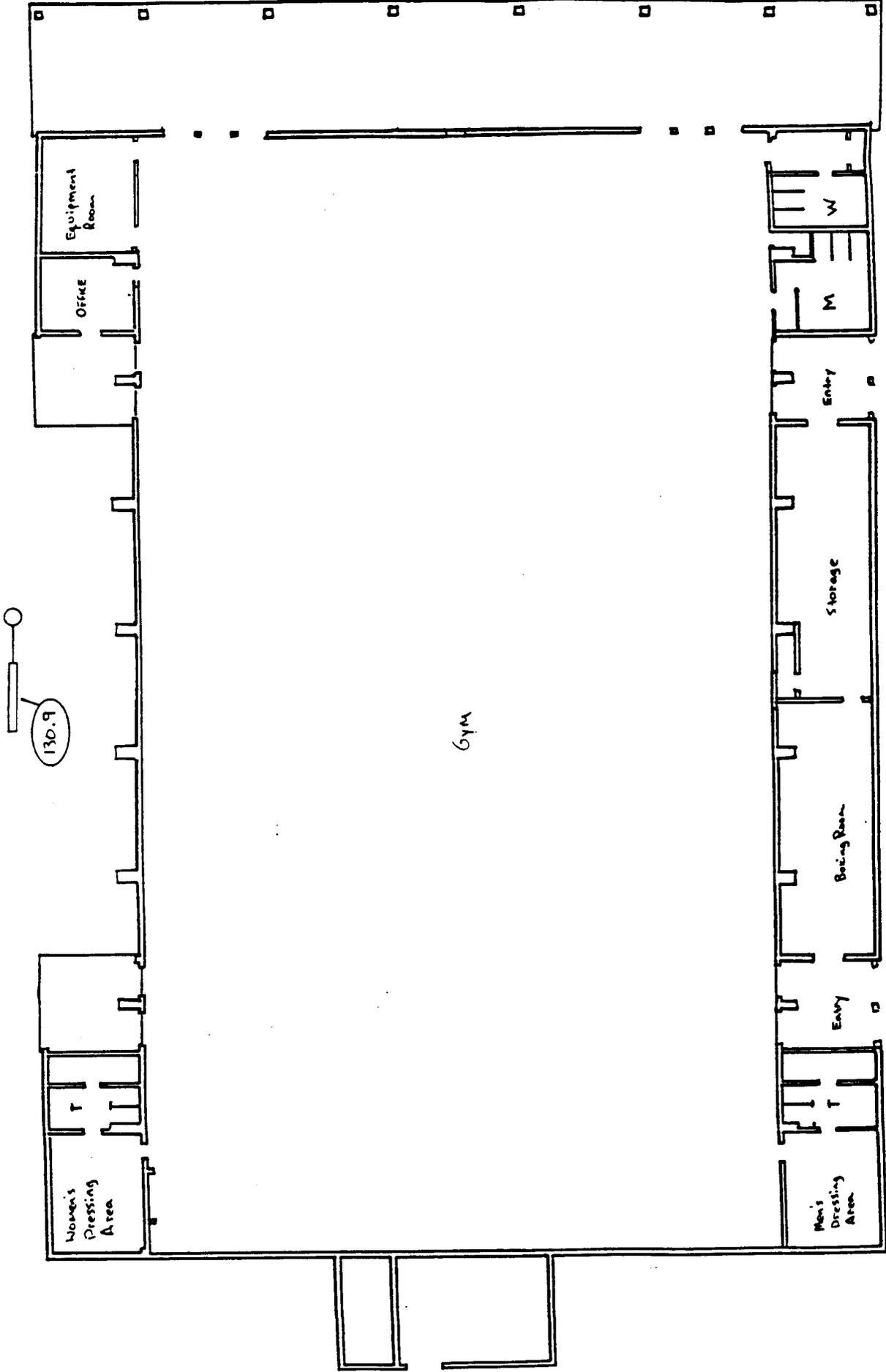
K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface lead in paint films. The survey results are based on K-shell readings as per EPA Guidelines.



Figure 1. Front view of Building 130.



Figure 2. Side view of Building 130.



Unit No. 130

Plate No. 1

Generalized Floorplan - Not to Scale

Locations of Positive XRF Readings (if any) Ar own

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 292



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING NO. 292, HOSPITAL
 FORT McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building No. 292 (Hospital) located at Fort McClellan, Alabama. This report documents the LBP field results for this building. The survey of this building was limited to areas selected by Preventative Medicine personnel.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1.
 1. A photograph of the unit appears as Figure 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test" ⁽¹⁾ mode is normally used for routine readings. Readings testing "positive" ⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm²), whereas, "negative" refers to readings of 0.7 mg/cm² or less. According to the HUD guidelines, positive readings for this instrument are greater than 1.3 mg/cm². "Inconclusive" readings are those that fall between 0.7 mg/cm² and 1.3 mg/cm².

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm ²
Test	0.7 - 1.3	mg/cm ²
Confirm	0.85 - 1.15	mg/cm ²

17 August 1994

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building No. 292 is a brick structure with concrete trim and metal frame windows. What appears to be the original portion of this building has two stories with a basement and was reportedly built in 1962. One story wings appear to have been added in later years. A photo of Building No. 292 appears in this report as Figure 1.

8. In talking with Preventative Medicine personnel, it was learned that the majority of the interior of this building has undergone various stages of remodeling and modernization.

9. The areas of the hospital that were tested for lead-based paint were selected by Preventative Medicine personnel. Only areas where small children are directly exposed to painted surfaces and components were tested (e.g., pediatric areas and waiting rooms).

10. A total of eighteen (18) XRF readings were taken in selected interior areas of Building No. 292. No lead-based paint was detected. Refer to Table 1 for all XRF readings.

Interior Summary

11. In the areas of Building No. 292 that were surveyed, no lead-based paint detected.

Exterior Summary

12. The exterior of Building No. 292 was not tested.

Prepared By:


Larry Martin - C.E.T.

Reviewed By:


Ray Willingham - Geologist

encl:

Date Surveyed: 16 February 1994
 Surveyed By: NAM, LM

TABLE 1
Building No. 292, Hospital, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094021694125501	1.2	1.3	83	N/A	Calibration Check
7094021694125501	1.3	1.3	83	N/A	Calibration Check
7094021694125501	1.1	1.3	83	N/A	Calibration Check

INTERIOR XRF READINGS

Room 1 (Outpatient Waiting Room)

292.1.1	-0.5	-0.2	20	Good	Yellow Sheetrock Wall
292.1.2	0.3	-0.1	20	Good	Yellow Vinyl Curtain Well

Room 2 (Pediatric Area)

292.2.1	-0.0	-0.1	20	Good	Yellow Sheetrock Wall
292.2.2	-0.7	-0.1	20	Good	Yellow Sheetrock Corner
292.2.3	0.4	-0.1	83	Good	Brown Metal Door Jamb
292.2.4	0.3	-0.1	20	Good	Brown Metal Door Jamb
292.2.5	0.4	-0.1	83	Good	Brown Metal Door Jamb
292.2.6	0.5	-0.1	83	Good	Brown Metal Door Jamb
292.2.7	0.1	-0.1	20	Good	Yellow Vinyl Wall Covering
292.2.8	0.1	-0.1	83	Good	Yellow Wood Curtain Well
292.2.9	-0.0	-0.1	20	Good	Yellow Sheetrock Wall
292.2.10	-0.7	-0.1	20	Good	Yellow Sheetrock Corner
292.2.11	0.4	-0.1	83	Good	Brown Metal Door Jamb
292.2.12	0.3	-0.1	20	Good	Brown Metal Door Jamb
292.2.13	0.4	-0.1	83	Good	Brown Metal Door Jamb

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
 Building No. 292, Hospital, Fort McClellan, Alabama
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 3 (Orthopedic Waiting Room)					
292.3.1	-1.2	-0.1	20	Good	Pink Concrete Wall
292.3.2	0.5	0.0	83	Good	Pink Metal HVAC unit
292.3.3	-1.2	-0.1	20	Good	Pink Concrete
7094021694164502	1.1	1.3	83	N/A	Calibration Check

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

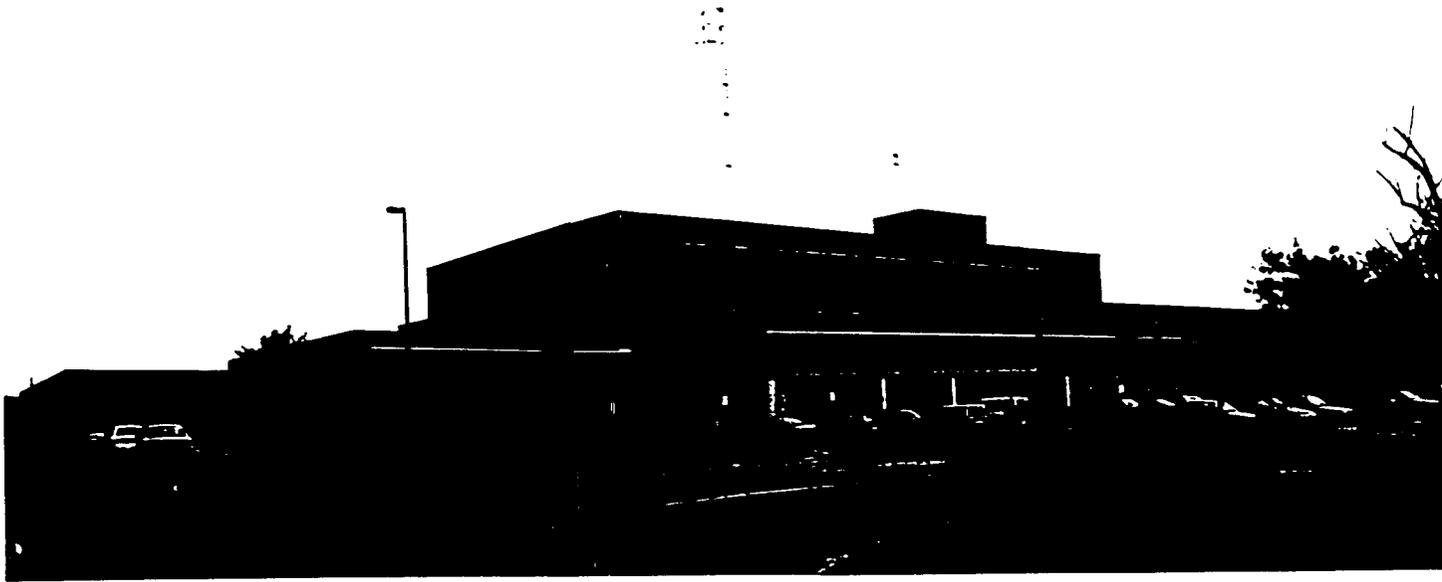


figure 1. Front view of Building No. 292 (Fort McClellan Hospital)

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 893



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 893 (Exterior Only)
 CHAPEL
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 893 located at Ft. McClellan, Alabama. This report documents the LBP field results for the exterior of this building, as requested.

2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.

3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.

4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

12 August 1994

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building 893 (Chapel), built in 1942, is a wood framed one story structure with wood exterior components (e.g., siding, soffits, trim, doors, windows, etc.).

8. As directed by Base personnel, no interior XRF readings were required.

9. A total of ten (10) exterior XRF readings were taken. Seven (7) were positive for LBP (see Table 1).

Exterior Summary

10. Based on the survey results, it is reasonable to assume that all exterior paint is positive for LBP.

Paint Condition

11. Overall, the paint on the exterior of this building is in poor condition.

Prepared By:



Keith Bates
Geologist

Reviewed By:



Ray Willingham
Geologist

encls

Date Surveyed: 02 February 1994
 Surveyors: KB, BS

Table 1
Ft. McClellan Building No. 893
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020294143102	1.2	1.2	81	N/A	Calibration Check
EXTERIOR XRF READINGS					
893.1	20.9	0.6	20	Poor	White Wood Clapboard
893.2	3.0	1.1	20	Poor	Green Concrete Foundation
893.3	17.5	1.0	20	Poor	White Wood Window Sill
893.4	15.2	0.7	20	Poor	White Wood Cornerboard
893.5	8.9	0.7	20	Poor	White Wood Door
893.6	0.3	0.4	81	Poor	Green Wood Stair Tread
893.7	7.9	1.2	20	Poor	White Wood Window Sash
893.8	-0.7	-0.1	20	Poor	White Wood Column
893.9	6.0	0.6	20	Fair	White Wood Door
893.10	0.1	0.0	20	Fair	Green Wood Cross Above Porch
893.10	0.1	0.0	20	Fair	Duplicate
7094020294152502	1.1	1.3	81	N/A	Calibration Check

Positive XRF readings (if any) are in Bold.

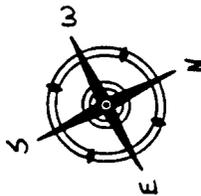
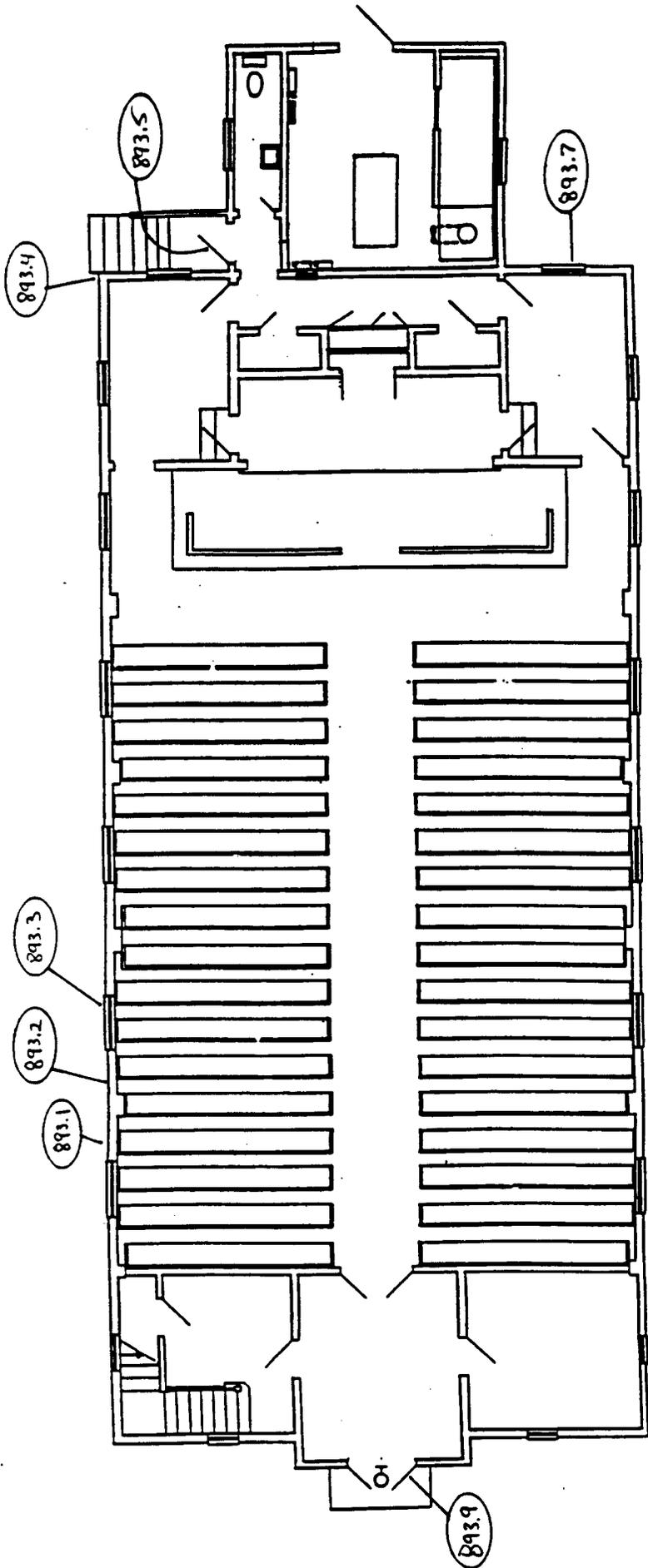
K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.



Figure 1. Front view of Building 893.



Figure 2. Rear view of Building 893.



Generalized Floorplan - Not to Scale

Only Locations of Positive XRF Readings (if any) Are Shown

Unit No. 893

Plate No. 1

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 992



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 992 (Exterior Only)
 RECREATION CENTER
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 992 located at Ft. McClellan, Alabama. This report documents the LBP field results for the exterior of this building, as requested.

2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.

3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.

4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

12 August 1994

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building 992 (Recreation Center), built in 1941, is a wood framed one story structure with vinyl siding, metal upper trim and wood windows and doors (see Figures).

8. As directed by Base personnel, no interior XRF readings were required.

9. A total of twelve (12) exterior XRF readings were taken. Two (2) were positive for LBP (see Table 1).

Exterior Summary

10. Based on the survey results, it is reasonable to assume that all white painted wood porch components (e.g., ceiling and trim around ceiling) on the south side of the building should be considered positive for lead-based paint (see Plate 1). All other XRF readings were negative.

Paint Condition

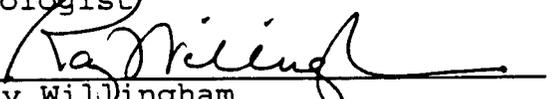
12. The paint on the exterior of this building that tested positive for LBP is in poor condition. The non-lead paint is, overall, in good condition.

Prepared By:



Keith Bates
Geologist

Reviewed By:



Ray WilDingham
Geologist

encls

Date Surveyed: 25 February 1994
 Surveyors: KB, NK

Table 1
 Ft. McClellan Building No. 992
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094022594124001	1.1	1.2	85	N/A	Calibration Check
7094022594124001	1.1	1.2	85	N/A	Calibration Check
7094022594124001	1.3	1.3	85	N/A	Calibration Check
EXTERIOR XRF READINGS					
992.1	-0.0	-0.1	21	Fair	White Wood Porch Soffit
992.2	-0.4	0.1	21	Good	Brown Wood Support Column
992.3	-0.3	-0.1	21	Good	Brown Wood Door
992.4	0.1	-0.1	21	Good	Brown Wood Door Header
992.5	-0.3	-0.1	21	Poor	Brown Wood Window Sill
992.6	-0.5	-0.1	21	Good	Brown Wood Door
992.7	0.1	-0.1	21	Good	Tan Vinyl Siding
992.8	-0.2	0.1	21	Poor	Brown Wood Porch Apron
992.9	20.3	1.3	21	Fair	White Wood Porch Ceiling
992.10	21.7⁽¹⁾	1.5	21	Poor	White Wood Upper Porch Trim (Scrape Sample Taken)
992.11	-0.2	-0.1	21	Good	Brown Wood Door
992.12	-0.1	-0.1	21	Good	Brown Wood Window Sash
992.12	-0.4	-0.1	21	Good	Duplicate
7094022594143502	1.3	1.3	85	N/A	Calibration Check

(1) Lab Analysis Positive (Result = 12.5% Lead, Action Level \geq 0.5% Lead).

Positive XRF readings (if any) are in Bold.

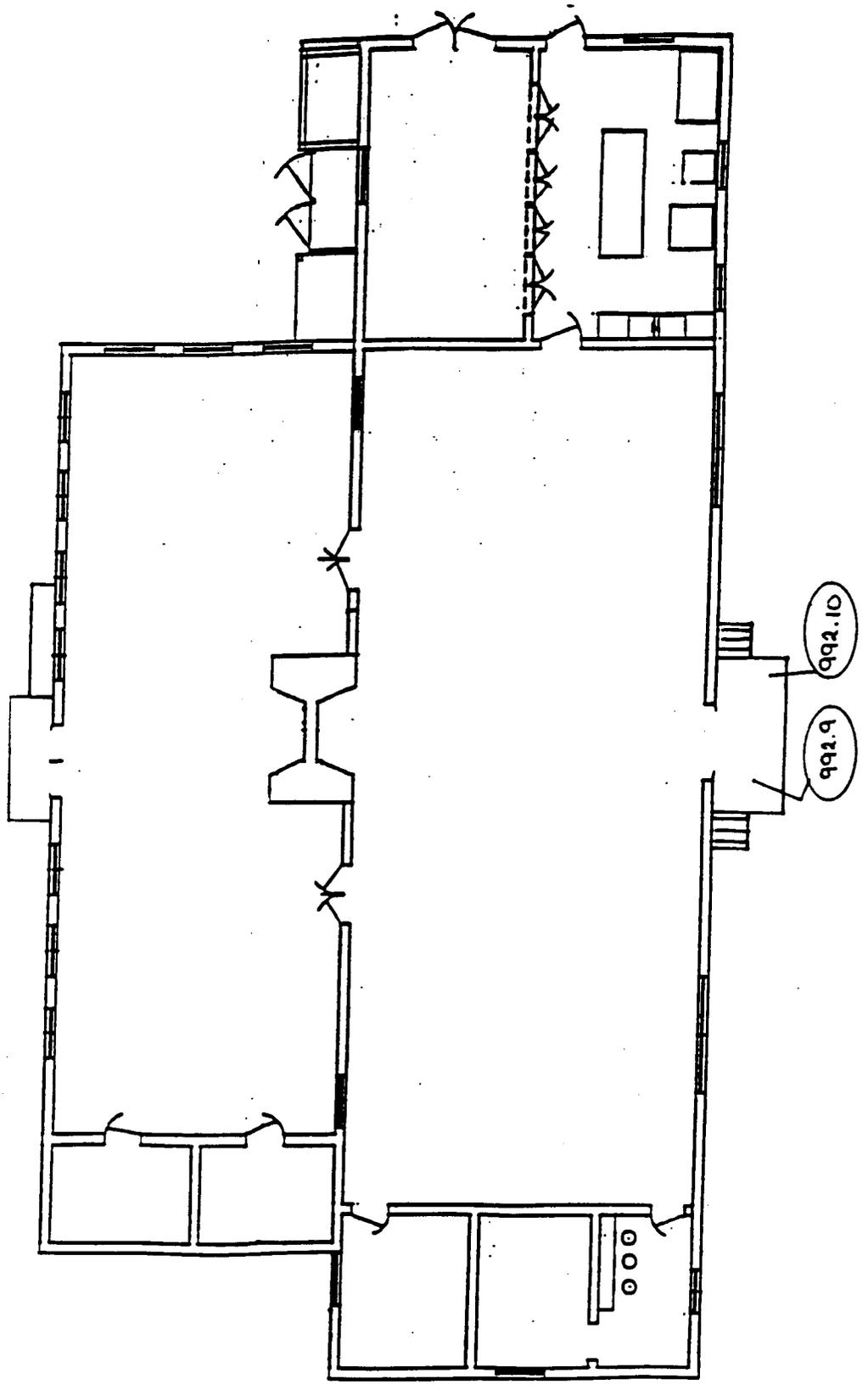
K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.



Figure 1. Front view of Building 992. Note, this is the porch with positive components.



Figure 2. Rear view of Building 992.



Unit No. 992
Plate No. 1

Generalized Floorplan - Not to Scale
Only Locations of Positive XRF Readings (if any) Are Shown

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 1012



**LEAD-BASED PAINT SURVEY
REPORT FOR BUILDING NO. 1012, FORT McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building No. 1012, the Truman Gymnasium, located at Fort McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test" ⁽¹⁾ mode is normally used for routine readings. Readings testing "positive" ⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

⁽¹⁾ The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

⁽²⁾ **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

9 August 1994

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building No. 1012, the Truman Gymnasium, is a stucco covered concrete and masonry block structure that was reportedly built in 1977. The building is equipped with factory painted, metal frame windows. There is very little paint on the exterior surfaces of this building. Photographs of building No. 1012 appear in this report as Figures 1 and 2.

Interior Summary

8. With the exception of orange metal doors in the steam and men's locker room and the lockers in the woman's locker room, all XRF measurements in the gymnasium were negative. (See Plate 1)

Exterior Summary

9. There was very little paint on the exterior of this structure. No lead-based paint was detected.

Paint Condition

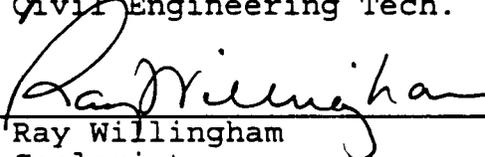
10. The orange door in the steam room was in fair condition. All other positive paint was in good condition.

Prepared by:



Larry Martin
Civil Engineering Tech.

Reviewed by:



Ray Willingham
Geologist

encl:
Table 1 (XRF readings)
Plate 1 (floorplan)
Figures 1 and 2 (photos)

Date Surveyed: 14 February 1993
 Surveyed By: LM, NAM

TABLE 1
Building No. 1012, Truman Gymnasium, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
0794021494070501	1.3	1.3	83	N/A	Calibration Check
0794021494070501	1.4	1.4	83	N/A	Calibration Check
0794021494070501	1.3	1.3	83	N/A	Calibration Check
0794021494070501	1.3	1.3	83	N/A	Calibration Check
0794021494070501	1.2	1.3	83	N/A	Calibration Check
0000	0.2	-0.1	83	N/A	Calibration Blank
	1.63	1.5	83	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Storage)

1012.1.1	-0.8	-0.1	20	Good	White Plaster Wall
1012.1.2	-0.2	-0.2	20	Good	White Wood Shelf Support
1012.1.3	0.1	-0.1	20	Good	White Wood Shelf
1012.1.4	0.1	-0.1	83	Good	Brown Metal Door Jamb
1012.1.5	0.7	-0.0	334	Good	Orange Metal Door
1012.1.6	-0.1	-0.1	20	Good	White Wood Shelf
1012.1.7	-0.6	-0.1	20	Good	White Wood Shelf Support
1012.1.8	0.5	-0.1	83	Fair	Orange Metal Door

Room 2 (Steam/Sauna Room)

1012.2.1	-0.8	-0.2	20	Poor	Crepe plaster ceiling
1012.2.2	-0.3	-0.2	20	Good	Crepe plaster ceiling
1012.2.3	-1.8	-0.2	20	Good	Crepe plaster ceiling
1012.2.4	0.2	-0.1	20	Good	Stained Wood Bench
1012.2.5	3.4	1.9	83	Fair	Orange Metal Door
1012.2.6	0.5	-0.1	83	Fair	Brown Metal Door Casing

Values in bold type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
 Building No. 1012, Truman Gymnasium, Fort McClellan, Alabama
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 3 (Storage)					
1012.3.1	0.0	-0.1	20	Good	White Sheetrock Wall
1012.3.2	0.4	-0.1	83	Poor	Orange Metal Door
Room 4 (Weight Room)					
1012.4.1	-0.6	-0.1	20	Good	Stained Wood Wall
1012.4.2	0.4	0.9	83	Good	Orange Metal Door
1012.4.3	0.6	-0.1	83	Good	Brown Metal Door Jamb
Room 5 (Racquetball Court)					
1012.5.1	0.4	-0.1	83	Fair	Orange Metal Door
1012.5.1	0.4	-0.1	83	Fair	Duplicate
1012.5.2	0.3	-0.1	83	Good	Brown Metal Door Jamb
1012.5.3	-0.9	-0.1	20	Good	Stained Wood Floor
1012.5.4	-1.5	-0.2	20	Good	White Concrete Wall
1012.5.5	-0.2	-0.1	20	Good	Sheetrock Ceiling
1012.5.6	-1.8	-0.1	20	Good	Grey Concrete Floor
7094021494093002	1.2	1.2	83	N/A	NIST Std. = 1.63
1012.5.7	0.5	-0.1	83	Poor	Brown Metal Hand Rail
1012.5.8	0.6	-0.0	83	Fair	Orange Metal Door
Room 6 (Women's Locker Room)					
1012.6.1	0.5	-0.0	83	Good	Orange Metal Door
1012.6.2	0.3	-0.1	83	Good	Brown Metal Door Jamb
1012.6.3	-1.3	-0.2	20	Good	Crete Plaster Wall
1012.6.4	-1.9	-0.1	83	Good	Plastic Stall Door
1012.6.5	-1.6	-0.2	20	Good	Wood Blinder Stall
1012.6.6	0.6	0.2	83	Fair	Black Bulletin Board
1012.6.7	2.1	1.1	83	Good	Blue Metal Locker
1012.6.8	1.1	0.0	83	Good	Blue Metal Locker
*Inconclusive - Scrape Sample Taken					

* After laboratory analysis by atomic absorption sample ID# 1012.6.8 was determined to be positive for lead. (Sample ID# 1012.6.8 = 4.28% lead by weight)

Values in bold type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
Building No. 1012, Truman Gymnasium, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 7 (Men's Locker Room)					
1012.7.1	0.2	-0.1	83	Good	Brown Metal Door Jamb
1012.7.2	2.6	1.7	83	Good	Orange Metal Door
1012.7.3	-1.2	-0.1	20	Good	Blue Wood Blinder Door
1012.7.4	-0.3	-0.2	20	Good	Yellow Plaster Ceiling
1012.7.5	0.3	-0.1	83	Good	Blue Metal Locker
1012.7.6	0.4	-0.1	83	Poor	Orange Metal Door
1012.7.6	0.5	-0.1	83	Poor	Duplicate
7094021494103502	1.4	1.6	83	N/A	Calibration Check
Room 8 (Front Desk)					
1012.8.1	0.5	-0.1	83	Fair	Orange Metal Door
1012.8.2	0.5	-0.1	83	Good	Orange Metal Door
1012.8.3	0.3	-0.1	83	Good	Brown Metal Door Jamb
1012.8.4	0.1	-0.1	20	Good	White Wood Shelf
1012.8.5	-1.5	-0.1	20	Poor	Grey Concrete Floor
1012.8.6	-0.2	-0.2	20	Fair	White Wood Shelf
1012.8.7	0.3	-0.1	20	Good	Brown Wood Door
1012.8.8	0.4	-0.1	83	Good	Orange Metal Door
1012.8.9	0.6	-0.0	83	Good	Orange Metal Door
1012.8.10	-0.6	-0.2	20	Good	White Plaster Wall
Room 9 (Main Entrance/Restrooms)					
1012.9.1	0.4	-0.1	83	Good	Orange Metal Door
1012.9.2	0.5	-0.1	83	Good	Brown Door Header
1012.9.3	-0.1	-0.2	20	Good	Creme Plaster Wall
Room 10 (Basketball Gym)					
1012.10.1	-1.7	-0.1	20	Good	White Concrete Wall
1012.10.2	0.1	-0.1	20	Good	White Plywood Wall
1012.10.3	-0.7	-0.1	20	Good	Brown Wood Door Jamb

Values in bold type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
 Building No. 1012, Truman Gymnasium, Fort McClellan, Alabama
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 10 (Basketball Gym) Cont.					
1012.10.4	0.3	-0.1	20	Good	White Concrete Ceiling
1012.10.5	-1.5	-0.2	20	Good	White Concrete Wall
1012.10.6	-1.1	-0.1	20	Good	Tan Concrete Floor
1012.10.6	-1.7	-0.1	20	Good	Duplicate
7094021494112502	1.5	1.4	83	N/A	Calibration Check
1012.10.7	-0.2	-0.1	20	Good	Stained Wood Bleacher Seat
1012.10.8	-0.8	-0.0	20	Good	Brown Concrete Floor
Room 11 (Swimming Pool Area)					
1012.11.1	0.4	-0.0	83	Good	Orange Metal Door
1012.11.2	0.3	-0.1	20	Good	Brown Metal Handra
1012.11.3	-1.3	-0.3	20	Good	Yellow Concrete Wall
1012.11.4	0.4	-0.0	83	Good	Orange Metal Door
1012.11.5	-0.1	-0.1	83	Good	Yellow Metal Vent Duct
1012.11.6	-2.0	-0.2	20	Good	White Plaster Window Divider Column
1012.11.7	0.1	0.0	83	Good	Brown Steel Support Beam
1012.11.8	-0.5	-0.1	20	Good	Yellow Concrete Wall
1012.11.9	0.2	-0.1	83	Good	White Diving Board Frame
1012.11.10	-0.5	-0.1	20	Good	Brown Window Panel
1012.11.11	0.3	-0.1	20	Good	Brown Metal Window Frame
1012.11.12	-1.3	-0.1	20	Good	White Plaster Wall
1012.11.13	0.5	-0.0	83	Good	Orange Metal Door
1012.11.14	0.4	0.0	83	Good	Brown Metal Door Jamb

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
Building No. 1012, Truman Gymnasium, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 11 (Swimming Pool Area) Cont.					
1012.11.15	0.6	-0.0	83	Good	Orange Metal Door
1012.11.16	0.2	0.0	83	Good	White Concrete Wall
1012.11.17	-0.2	0.0	83	Good	Blue Metal Locker
7094021494133502	1.2	1.3	83	N/A	Calibration Check
7094021494133502	1.1	1.3	83	N/A	Calibration Check
7094021494133502	1.0	1.3	83	N/A	Calibration Check
1012.11.18	0.3	0.0	83	Good	Grey Metal Door
1012.11.19	0.5	-0.1	83	Fair	Grey Metal Door Jamb
Room 12 (Manager's Office)					
1012.12.1	0.1	-0.1	20	Good	Orange Wood Door
1012.12.2	-0.2	-0.1	20	Good	White Wood Door Header
1012.12.3	0.6	-0.1	83	Good	Brown Metal Door Jamb
1012.12.4	-0.4	-0.1	20	Good	White Sheetrock Wall
1012.12.5	0.4	-0.1	20	Good	Orange Wood Door
1012.12.6	0.4	-0.1	83	Good	Brown Metal Door Casing
Room 13 (Upstairs Entry)					
1012.13.1	-0.6	-0.1	20	Good	White Concrete Wall
1012.13.2	-0.0	-0.1	20	Good	Orange Wood Door
Room 14 (Nautilus Room)					
1012.14.1	-0.4	-0.1	20	Good	Orange Wood Door
1012.14.2	-1.2	-0.2	20	Good	White Sheetrock Wall
1012.14.3	-0.1	-0.1	20	Good	White Sheetrock Wall
1012.14.4	-0.2	-0.1	20	Good	White Sheetrock Wall
1012.14.5	-0.2	-0.1	20	Good	Orange Wood Door
1012.14.6	0.0	-0.1	44	Good	White Sheetrock Ceiling
1012.14.7	-1.5	-0.1	83	Fair	White Window Sill

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
 Building No. 1012, Truman Gymnasium, Fort McClellan, Alabama
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
EXTERIOR XRF READINGS					
1012.1	-0.2	-0.0	20	Good	Creme Stucco Wall
1012.2	0.2	0.6	83	Good	White Concrete Entry Way Roof
1012.3	0.5	-0.1	83	Good	Creme Stucco Wall
1012.4	0.3	-0.1	83	Good	Creme Metal Vent Cover
7094021494150502	1.1	1.3	83	N/A	Calibration Check

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

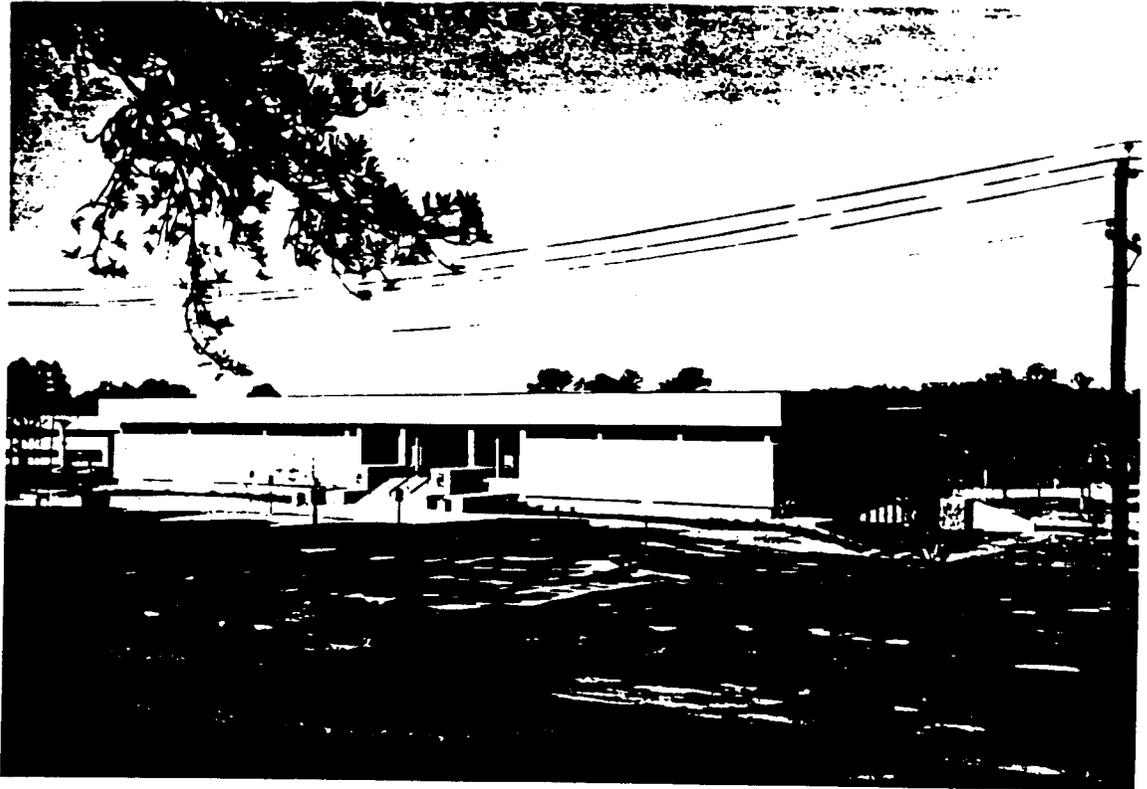


Figure 1. Front view of the Truman Gymnasium (Bldg. 1012) at Fort McClellan, Alabama.

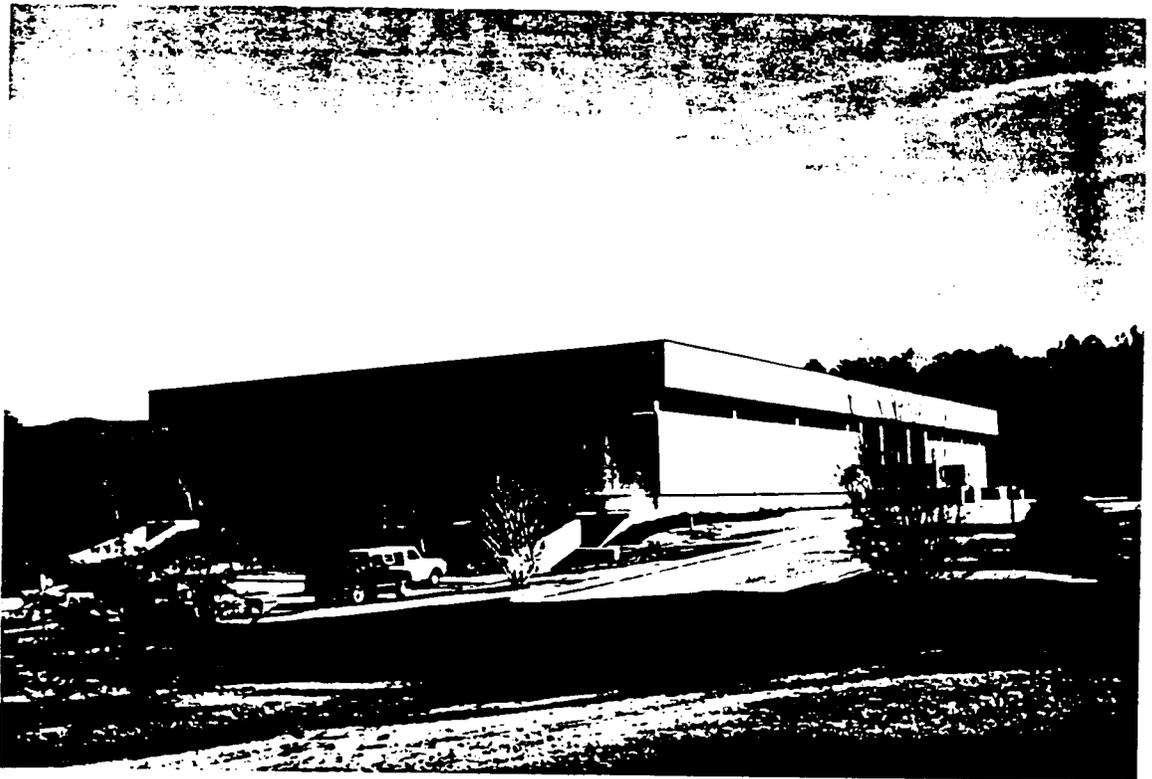
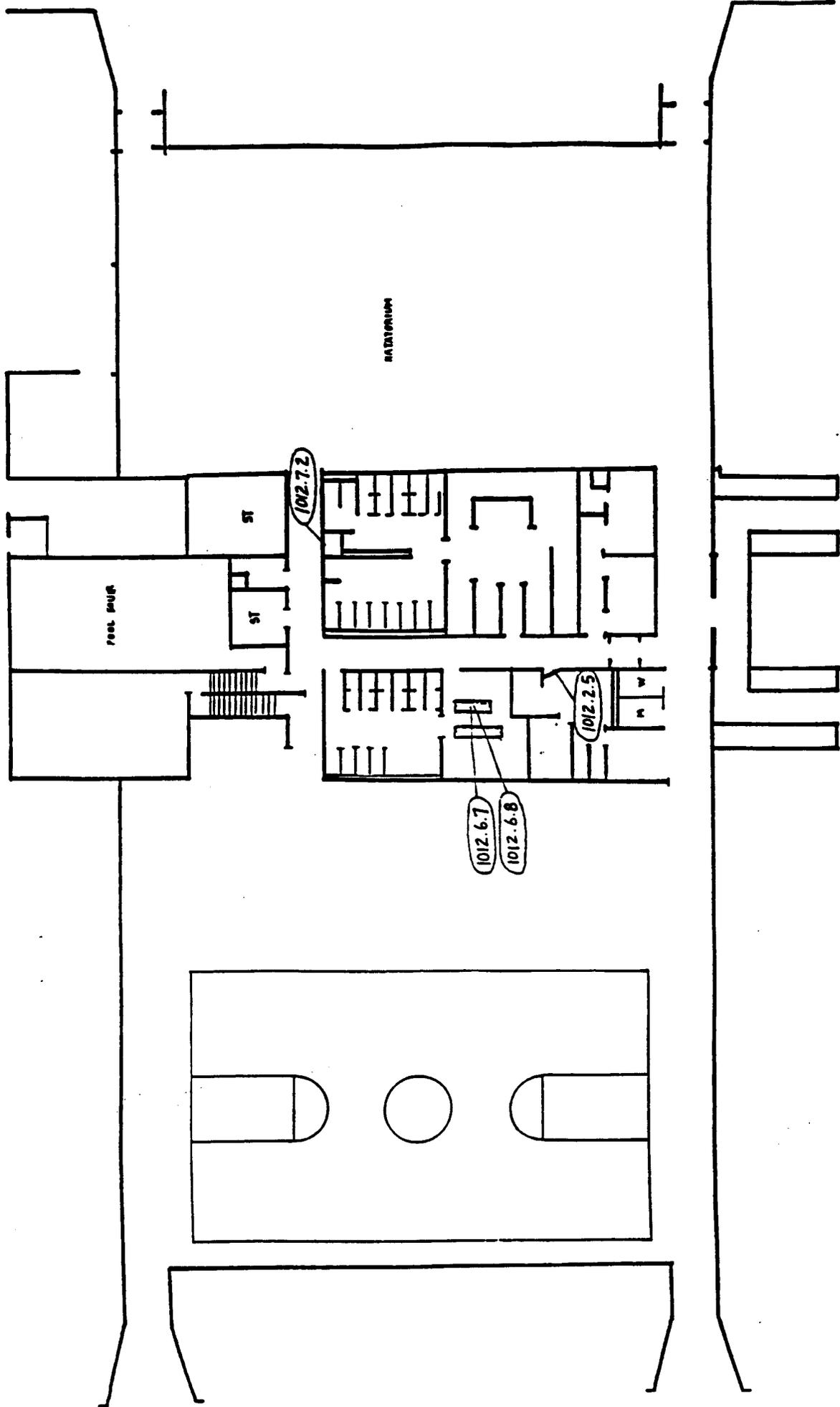


Figure 2. Front and side view of Bldg. 1012



No Scale Implied

Only Locations of XRF Readings testing Positive Are Sh



FORT MCCLELLAN, ALABAMA PLATE / BUILDING NUMBER 1012 LOCATION: 5 th AVENUE
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**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 1077

Date Surveyed: 16 February 1993
 Surveyed By: NAM, LM

TABLE 1
Building No. 1077, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094021694070001	1.4	1.4	83	N/A	Calibration Check
7094021694070001	1.4	1.3	83	N/A	Calibration Check
7094021694070001	1.2	1.3	83	N/A	Calibration Check
7094021694070001	1.3	1.3	83	N/A	Calibration Check
7094021694070001	1.2	1.3	83	N/A	Calibration Check
7094021694070001	1.3	1.6	83	N/A	Calibration Check
1.63	1.4	1.5	83	N/A	NIST Std. = 1.63
0000	0.1	-0.1	83	N/A	Blank

INTERIOR XRF READINGS

Room 1 (Foyer)

1077.1.1	-1.0	-0.2	20	Good	White Block Wall
1077.1.2	-0.7	-0.1	20	Good	Tan Wood Window Sill
1077.1.3	0.0	-0.1	20	Good	Red Wood Door
1077.1.4	0.1	-0.1	83	Good	Brown Metal Door Header
1077.1.5	-0.4	-0.1	20	Good	White Concrete Ceiling
1077.1.6	-0.1	-0.1	20	Good	Red Sheetrock Ceiling Structure

Room 2 (Exhibit Hall)

1077.2.1	-1.1	-0.2	20	Good	White Block Wall
1077.2.2	-1.1	-0.2	20	Good	Tan Block Wall
1077.2.3	-1.5	0.0	20	Good	White Wood Mirror Stand
1077.2.4	-1.2	-0.2	20	Good	Tan Block Wall
1077.2.5	0.3	-0.1	20	Good	Brown Metal Door Jamb
1077.2.6	0.1	-0.1	20	Good	Tan Wood Partition Wall

Room 3 (Theater)

1077.3.1	-1.7	-0.2	20	Good	Tan Block Wall
1077.3.2	0.3	-0.1	83	Good	Brown Metal Door Jamb
1077.3.3	-0.9	-0.1	20	Good	Brown Stained Wood Door

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
 Building No. 1077, Fort McClellan, Alabama
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 4 (Men's Room)					
1077.4.1	-1.8	-0.2	20	Good	Tan Block Wall
1077.4.2	0.3	-0.1	83	Good	Brown Metal Door Header
1077.4.3	-0.8	-0.2	20	Good	Brown Wood Window Sill Trim
1077.4.4	-0.8	-0.2	20	Good	Tan Block Wall
Room 5 (Research Room)					
1077.5.1	-1.4	-0.2	20	Good	Tan Block Wall
1077.5.2	0.5	-0.1	83	Good	Brown Metal Door Jamb
1077.5.2	0.0	-0.1	83	Good	Duplicate
7094021694100002	1.5	1.4	83	N/A	Calibration Check
Room 6 (Hallway)					
1077.6.1	-0.7	-0.2	20	Good	Tan Block Door Header
1077.6.2	-1.1	-0.2	20	Good	Tan Block Wall
1077.6.3	-0.9	-0.1	20	Good	Red Wood Door
1077.6.4	0.4	-0.1	83	Good	Brown Metal Door Jamb
1077.6.5	0.5	-0.0	83	Good	Brown Metal Door
Room 7 (Workroom)					
1077.7.1	-0.9	-0.2	20	Good	Tan Block Wall
1077.7.2	-0.5	-0.1	20	Good	Brown Metal Door
1077.7.3	-0.5	-0.1	20	Good	White Wood Door Frame
1077.7.4	-0.3	-0.1	20	Good	Brown Wood Siding
1077.7.5	0.4	-0.0	83	Good	Brown Metal Door
1077.7.6	0.1	-0.1	20	Good	Tan Wood Shelf Bracket
1077.7.7	-0.5	-0.2	20	Good	Tan Block Wall
Room 8 (Curator's Office)					
1077.8.1	-0.7	-0.1	20	Good	Tan Block Wall
1077.8.2	-0.0	-0.1	83	Good	Brown Door Header

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.



**LEAD-BASED PAINT SURVEY
REPORT FOR BUILDING NO. 1077, WOMEN'S ARMY CORPS MUSEUM,
FORT McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building No. 1077 located at Fort McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures 1 and 2. The building floorplans, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

12 August 1994

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm^2 . Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building No. 1077 (Women's Army Corps Museum) is a one story, brick structure reportedly built in 1976. All exterior trim, window frames, doors and related components are factory painted metal. The interior walls are painted masonry block. Photos of Building No. 1077 appear as Figures 1 and 2.

8. A total of forty-five (45) XRF readings were taken on representative surfaces and components throughout the entire interior and exterior of Building No. 1077. No positive levels of lead-based paint was detected.

Interior Summary

9. No Lead-based paint was detected in the interior of Building No. 1077.

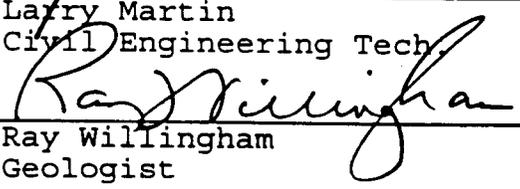
Exterior Summary

10. No lead-based paint was detected on exterior surfaces or components at Building No. 1077.

Prepared By: _____


Larry Martin
Civil Engineering Tech.

Reviewed By: _____


Ray Willingham
Geologist

encl: Table 1 (XRF readings)
Plate 1 (floorplan)
Figures 1 and 2 (photos)

TABLE 1 Cont.
Building No. 1077, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments

Room 9 (Museum Aide's Office)					
1077.9.1	-0.5	-0.1	20	Good	Red Block Wall
EXTERIOR READINGS					
1077.1	0.2	-0.1	20	Good	White Plaster Entryway Ceiling
1077.2	0.1	-0.1	83	Good	White Metal Entryway Ceiling Panel Bracket
1077.3	-0.2	0.0	20	Good	Red Wood Sidewalk Border
1077.4	-0.2	-0.1	20	Good	Black Flashing Cement
1077.5	0.4	-0.0	83	Fair	Brown Metal Door
1077.6	0.4	-0.1	20	Good	White Entryway Ceiling
1077.7	0.4	-0.0	83	Good	Brown Metal Door
1077.8	0.5	0.1	83	Good	Tan Metal Utility Box
1077.9	-0.4	-0.1	20	Good	Tan Storage Shed Door Casing
1077.9	0.2	-0.1	20	Good	Duplicate
7094021694112002	1.1	1.2	83	N/A	Calibration Check

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

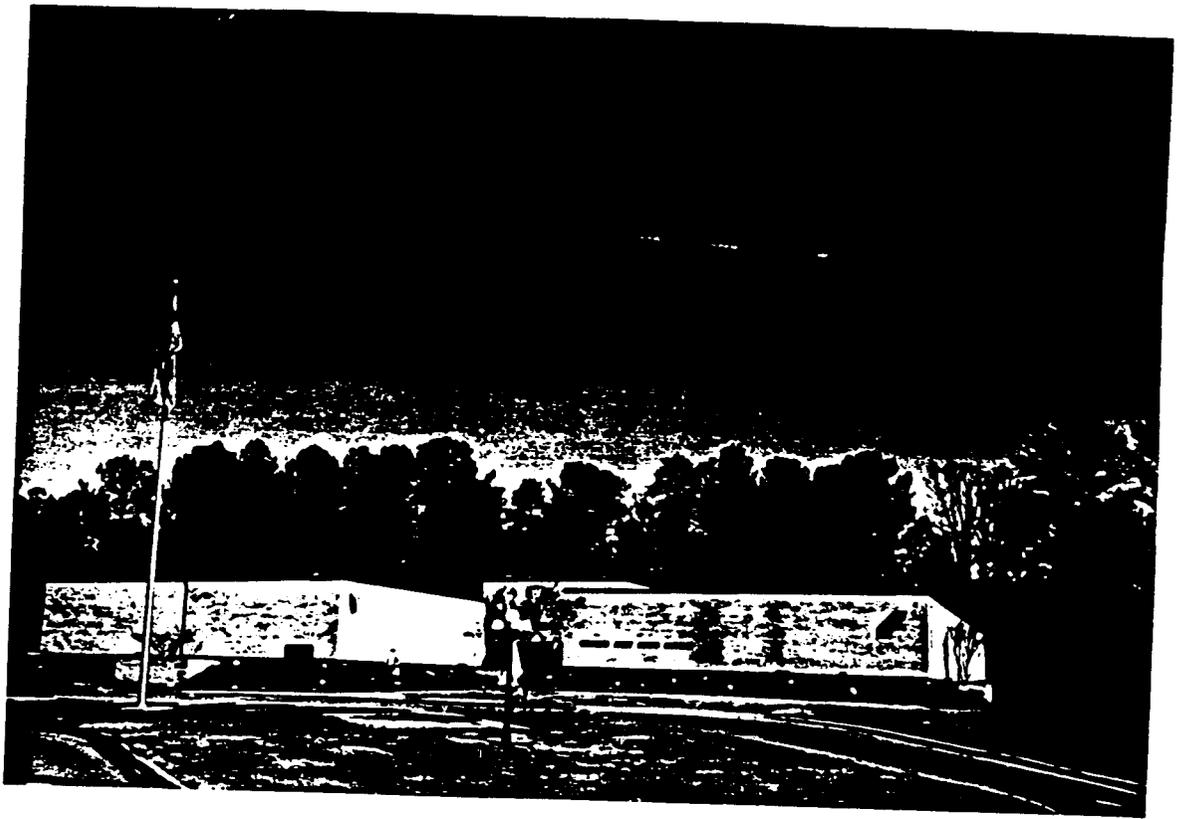


Figure 1. Front view of the Women's Army Corps Museum, Building No. 1077 at Fort McClellan.



Figure 2. Side view of Building No. 1077 and courtyard.

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 1740



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 1740
 SOLDIER'S CHAPEL
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 1740 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

⁽¹⁾ The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

⁽²⁾ **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

Paint Condition

12. The paint testing positive for lead on the interior of this building is in poor to fair condition. The remaining non-lead paint on the interior is in fair to good condition. The paint on the exterior is in poor to good condition.

Prepared By: Keith Bates
Keith Bates
Geologist

Reviewed By: _____
Ray Willingham
Geologist

encls

Table 1 (continued)
 Ft. McClellan Building No. 1740
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 2 (Storage - continued)					
1740.2.5	0.3	0.1	21	Fair	White Brick Wall
1740.2.5	0.1	-0.0	21	Fair	Duplicate
7094022594161501	1.2	1.3	85	N/A	Calibration Check
1740.2.6	4.3	0.8	21	Poor	White Metal Window Sash
Room 3 (Storage)					
1740.3.1	0.3	-0.1	21	Fair	Blue Sheetrock Wall
1740.3.2	2.5	0.4	21	Fair	Tan Concrete Wall
1740.3.3	-0.1	-0.1	21	Good	Stained Wood Door Jamb
Room 4 (Men's Restroom)					
1740.4.1	-0.1	0.0	21	Good	White Sheetrock Wall
1740.4.2	-0.0	0.3	21	Good	White Wood Stall
1740.4.3	0.2	0.3	85	Good	White Wood Door Header
1740.4.4	1.1 ⁽²⁾	0.3	85	Good	White Wood Door (Inconclusive - scrape sample taken)
Room 5 (Hallway)					
1740.5.1	0.0	0.0	21	Good	White Sheetrock Wall
1740.5.2	-0.1	0.5	21	Fair	Brown Wood Baseboard
1740.5.3	0.1	-0.1	85	Good	White Wood Door Jamb

(2) Lab analysis positive. (Result = 0.95% Lead, Action level = 0.5% Lead)

Positive XRF readings (if any) are in Bold.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.



Figure 1. Front view of Building 1740.



Figure 2. Rear view of Building 1740.

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 1928



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING NO. 1928, BOWLING ALLEY
 FORT McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building No. 1928 located at Cape Hatteras, Hatteras, NC. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 2. Photographs of the unit appear as Figures. The building floorplans, showing the locations of the XRF readings testing positive, appear as Plates.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test" ⁽¹⁾ mode is normally used for routine readings. Readings testing "positive" ⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

Date Surveyed: 15 February 1993
 Surveyed By: NAM, LM

TABLE 1
Building No. 1928, Bowling Alley, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094021594064501	1.1	1.3	83	N/A	Calibration Check
7094021594064501	1.5	1.3	83	N/A	Calibration Check
7094021594064501	1.2	1.3	83	N/A	Calibration Check
7094021594064501	1.3	1.3	83	N/A	Calibration Check
7094021594064501	1.3	1.3	83	N/A	Calibration Check
0000	0.2	-0.1	83	N/A	Blank
1.63	1.4	1.6	83	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Women's Restroom)

1928.1.1	-0.6	0.0	20	Good	Beige Block Wall
1928.1.2	0.2	-0.2	83	Good	Beige Metal Door Jamb

Room 2 (Janitor's Closet)

1928.2.1	-1.6	-0.2	20	Fair	Light Green Concrete Block Wall
1928.2.2	-0.1	-0.2	20	Fair	Light Green Metal Baseboard
1928.2.3	-0.5	-0.1	20	Poor	White Wood Shelf
1928.2.4	0.3	-0.1	20	Fair	Blue Wood Equipment Rack

Room 3 (Men's Restroom)

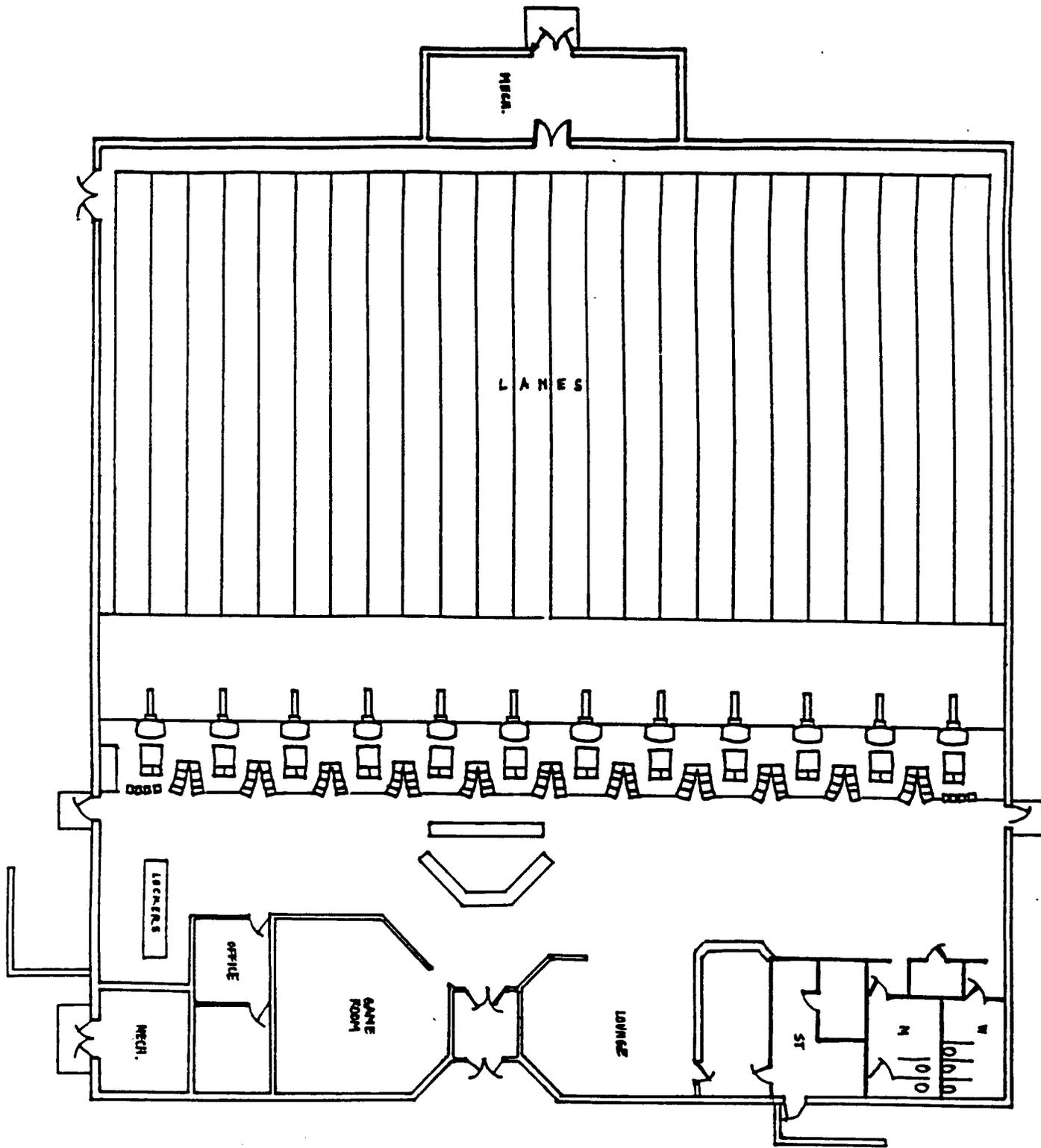
1928.3.1	-0.3	0.2	20	Good	Beige Concrete Block Wall
1928.3.2	-0.0	-0.2	83	Good	Brown Metal Door Header

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
Building No. 1928, Bowling Alley, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 7 (Main Room)					
1928.7.1	-0.6	-0.2	20	Good	White Concrete Block Door Jamb
1928.7.2	-0.4	-0.2	83	Good	White Metal Door
1928.7.3	0.2	-0.1	20	Good	Beige Metal Support Beam
1928.7.4	-0.6	-0.2	83	Fair	Blue Wood Bowling Alley Gutter
1928.7.5	-0.4	-0.1	20	Good	White Wood Lane Siding
1928.7.6	-2.5	-0.1	20	Good	Grey Concrete Floor
1928.7.7	-1.6	-0.2	20	Good	White Block Wall
1928.7.8	-1.5	-0.2	20	Good	Blue Block Wall
1928.7.9	-0.0	-0.1	20	Good	White Metal Door Jamb
1928.7.10	-0.4	-0.1	20	Good	White Plaster Support Column
1928.7.11	-0.3	-0.2	83	Good	Black Wood Stair Riser
EXTERIOR XRF READINGS					
1928.1	-1.9	-0.2	20	Good	White Block Wall
1928.2	0.5	0.3	83	Fair	Tan Metal Door
1928.3	0.3	-0.1	20	Fair	White Wood Door
1928.4	0.3	0.4	20	Good	Tan Metal Door
1928.5	0.2	0.6	20	Fair	Tan Metal Rain Gutter
1928.6	0.5	-0.1	83	Fair	White Metal Door
1928.6	0.5	-0.1	83	Fair	Duplicate
7094021594100501	1.1	1.3	83	N/A	Calibration Check

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.



NOTE: NO POSITIVE XRF READINGS



FORT McCLELLAN, ALABAMA	
PLATE	<u>1</u>
BUILDING NUMBER	<u>1928</u>
LOCATION:	<u>21st Street</u>

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 1929



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 1929
 DENTAL CLINIC
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 1929 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. A floorplan of the building appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

⁽¹⁾ The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

⁽²⁾ **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

Date Surveyed: 24 February 1994
 Surveyors: KB, NK

Table 1
Ft. McClellan Building No. 1929
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094022494070801	1.2	1.3	85	N/A	Calibration Check
7094022494070801	1.2	1.3	85	N/A	Calibration Check
7094022494070801	1.1	1.3	85	N/A	Calibration Check
7094022494070801	1.3	1.3	85	N/A	Calibration Check
7094022494070801	1.3	1.3	85	N/A	Calibration Check
0000	0.0	-0.1	85	N/A	Blank
1.63	1.4	1.5	85	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Waiting Room)

1929.1.1	-0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.1.2	0.2	-0.1	21	Good	Tan Sheetrock Support Column
1929.1.3	-1.3	-0.2	21	Good	Tan Sheetrock Ceiling Beam

Room 2 (Waiting Room)

1929.2.1	0.1	-0.1	21	Good	Tan Sheetrock Support Column
1929.2.2	-0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.2.3	-0.3	-0.1	21	Good	Brown Wood Board
1929.2.4	-0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.2.5	0.1	-0.1	21	Good	Tan Sheetrock Ceiling
1929.2.6	0.3	0.0	21	Good	Tan Metal Door Casing

Room 3 (Reception / Record Room)

1929.3.1	-0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.3.2	-0.2	-0.1	21	Good	Tan Sheetrock Light Box
1929.3.3	0.1	0.2	21	Good	Tan Metal Door Casing
1929.3.4	-0.4	-0.1	21	Good	Stained Wood Door

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
Ft. McClellan Building No. 1929
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 10 (Exam Room)					
1929.10.1	15.2*	0.1	21	Fair	Tan Sheetrock Wall (Lead-lined wall for x-ray)
1929.10.2	25.7*	0.3	21	Good	Stained Wood Door (Lead-lined door for x-ray)
Room 11 (Exam Room)					
1929.11.1	-0.1	-0.1	21	Good	Tan Sheetrock Wall
Room 12 (Exam Room)					
1929.12.1	0.1	-0.1	21	Good	Stained Wood Door
1929.12.2	0.1	-0.1	21	Good	Tan Sheetrock Wall
Room 13 (Restroom)					
1929.13.1	0.4	0.5	85	Good	Tan Metal Door Casing
1929.13.2	-0.2	-0.1	21	Good	Tan Sheetrock Wall
Room 14 (Recovery Room)					
1929.14.1	-0.8	-0.1	21	Good	Stained Wood Door
1929.14.2	0.1	-0.1	21	Good	Tan Sheetrock Wall
Room 15 (Sterilization Room)					
1929.15.1	0.3	-0.1	21	Good	Tan Sheetrock Wall
1929.15.2	0.4	0.3	85	Fair	Tan Metal Door Casing
Room 16 (Office)					
1929.16.1	-0.0	-0.1	21	Good	Tan Sheetrock Wall

* Lead detected is from the lead lining, not lead-based paint.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 1929
 Lead-Based Paint Field Survey Results

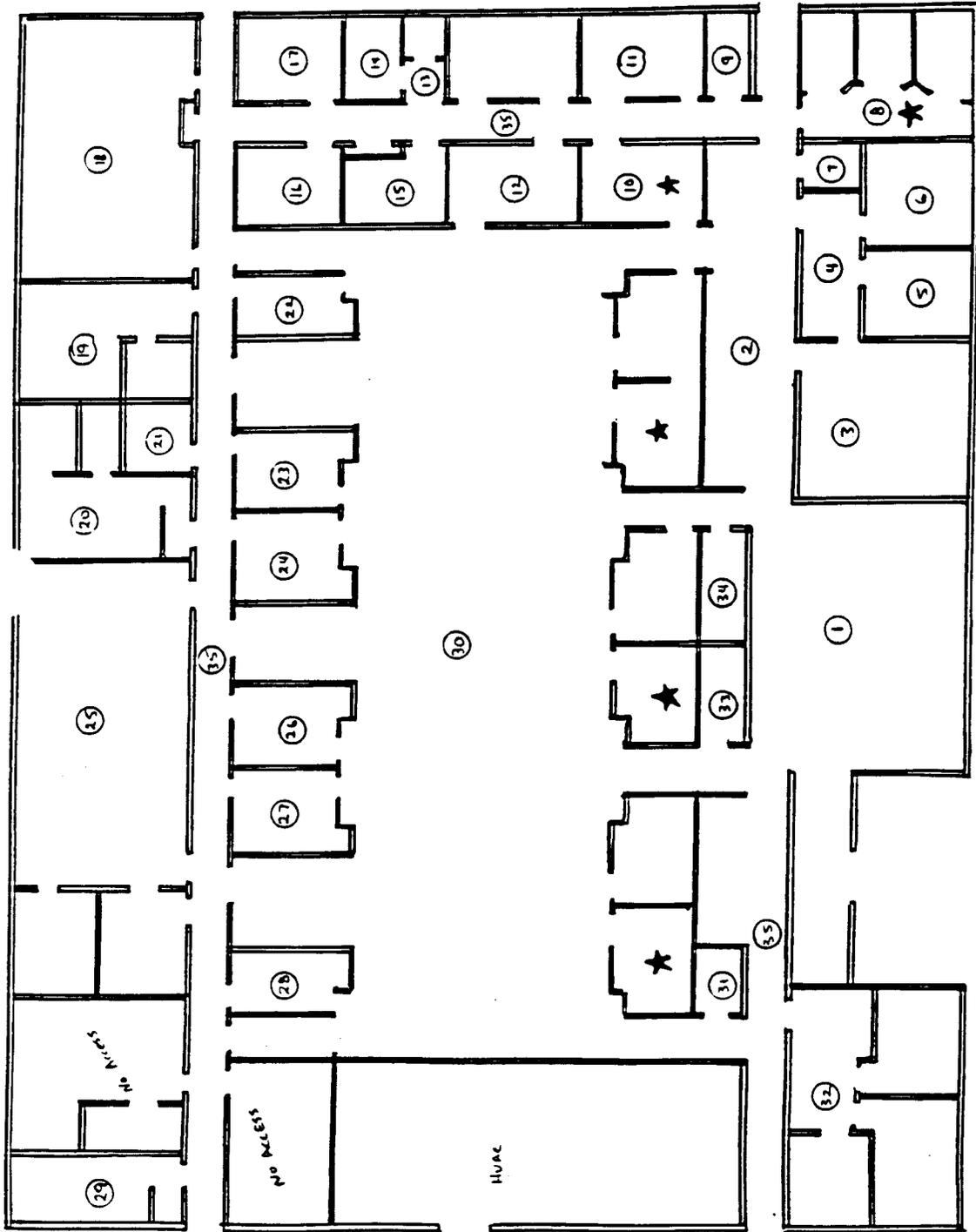
ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 23 (Office)					
1929.23.1	0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.23.2	-0.1	-0.1	21	Good	Stained Wood Door
Room 24 (Office)					
1929.24.1	0.5	0.2	85	Fair	Tan Metal Door Jamb
1929.24.2	-0.1	-0.1	21	Good	Tan Sheetrock Wall
Room 25 (Prosthetic Laboratory)					
1929.25.1	-0.3	-0.1	21	Good	Tan Sheetrock Wall
1929.25.2	0.5	0.4	85	Fair	Tan Metal Door Casing
1929.25.3	0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.25.4	-0.3	-0.1	21	Good	Stained Wood Door
1929.25.5	-0.1	-0.1	21	Good	Tan Sheetrock Wall
Room 26 (Office)					
1929.26.1	-0.1	-0.2	21	Good	Tan Sheetrock Wall
1929.26.2	-0.2	-0.1	21	Good	Tan Sheetrock Support Column
Room 27 (Office)					
1929.27.1	0.4	0.3	85	Fair	Tan Metal Door Jamb
1929.27.2	-0.4	-0.1	21	Good	Stained Wood Door
1929.27.2	-0.5	-0.1	21	Good	Duplicate
7094022494100001	1.0	1.2	85	N/A	Calibration Check
Room 28 (Office)					
1929.28.1	0.0	-0.1	21	Good	Tan Sheetrock Wall

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 1929
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 33 (Women's Restroom)					
1929.33.1	-0.1	-0.1	21	Good	Tan Sheetrock Wall
Room 34 (Men's Restroom)					
1929.34.1	0.1	-0.1	21	Good	Tan Sheetrock Wall
Room 35 (Hallway)					
1929.35.1	-0.7	-0.1	21	Good	Stained Wood Door
1929.35.2	0.2	-0.1	21	Good	Tan Sheetrock Wall
1929.35.3	-0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.35.4	-0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.35.5	0.1	-0.1	21	Good	Tan Sheetrock Wall
1929.35.6	0.0	-0.1	21	Good	Tan Sheetrock Wall
EXTERIOR XRF READINGS					
1929.1	0.4	0	85	Poor	Brown Metal Railing
1929.2	0.5	-0.1	85	Fair	Brown Metal Door Jamb
1929.3	0.5	-0.1	85	Fair	Brown Metal Door
7094022494111501	1.3	1.3	85	N/A	Calibration Check

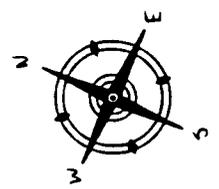
K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.



○ - Room Numbers

★ - Rooms with lead lined walls and doors.

Generalized Floorplan - Not to Scale



Unit No. 1929

Plate No. 1

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 2101



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 2101
 POST THEATER
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 2101 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

Date Surveyed: 25 February 1994
 Surveyors: KB, NK

Table 1
Ft. McClellan Building No. 2101
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094022594070001	1.2	1.3	85	N/A	Calibration Check
7094022594070001	1.2	1.3	85	N/A	Calibration Check
7094022594070001	1.3	1.3	85	N/A	Calibration Check
7094022594070001	1.0	1.3	85	N/A	Calibration Check
7094022594070001	1.3	1.3	85	N/A	Calibration Check
0000	0.1	-0.1	85	N/A	Blank
1.63	1.3	1.5	85	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Lobby)

2101.1.1	-0.8	-0.2	21	Good	White Concrete Wall
2101.1.2	0.6	0.0	343	Fair	White Metal Door
2101.1.3	0.3	-0.0	85	Fair	White Metal Door Casing
2101.1.4	0.6	0.0	85	Good	White Metal Door
2101.1.5	-0.1	-0.1	21	Good	White Sheetrock Wall
2101.1.6	-2.4	-0.2	21	Good	White Concrete Column
2101.1.7	0.5	-0.1	85	Fair	Black Metal Railing
2101.1.8	-1.4	-0.2	21	Good	White Concrete Wall
2101.1.9	-0.2	-0.1	21	Good	White Wood Door
2101.1.10	-0.1	-0.1	21	Good	White Wood Door Casing

Room 2 (Women's Restroom)

2101.2.1	-0.2	-0.1	21	Good	White Plaster Ceiling
2101.2.2	0.3	0.1	85	Good	Red Metal Stall
2101.2.3	0.5	-0.0	85	Good	White Metal Door

Room 3 (Men's Restroom)

2101.3.1	-1.0	-0.2	21	Good	White Plaster Ceiling
2101.3.2	0.4	-0.1	85	Good	White Metal Door Jamb

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 2101
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 6 (Dressing Room)					
2101.6.1	-2.1	-0.2	21	Good	Yellow Concrete Block Wall
2101.6.2	0.6	-0.0	85	Good	Yellow Metal Door
2101.6.3	0.5	-0.1	85	Good	Yellow Metal Door Casing
Room 7 (Dressing Room)					
2101.7.1	-0.5	-0.2	21	Good	White Plaster Ceiling
2101.7.2	-1.5	-0.2	21	Good	Yellow Concrete Block Wall
2101.7.3	0.6	0.1	85	Good	Yellow Metal Door
Room 8 (Stairwell)					
2101.8.1	-2.4	-0.2	21	Good	Yellow Concrete Block Wall
2101.8.1	-1.1	-0.2	21	Good	Duplicate
7094022594103001	1.2	1.2	85	N/A	Calibration Check
2101.8.2	0.3	-0.1	85	Fair	Black Metal Stair Riser
2101.8.3	0.3	-0.1	85	Fair	Yellow Metal Newel Post
2101.8.4	-0.1	-0.0	21	Good	White Wood Shelf

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

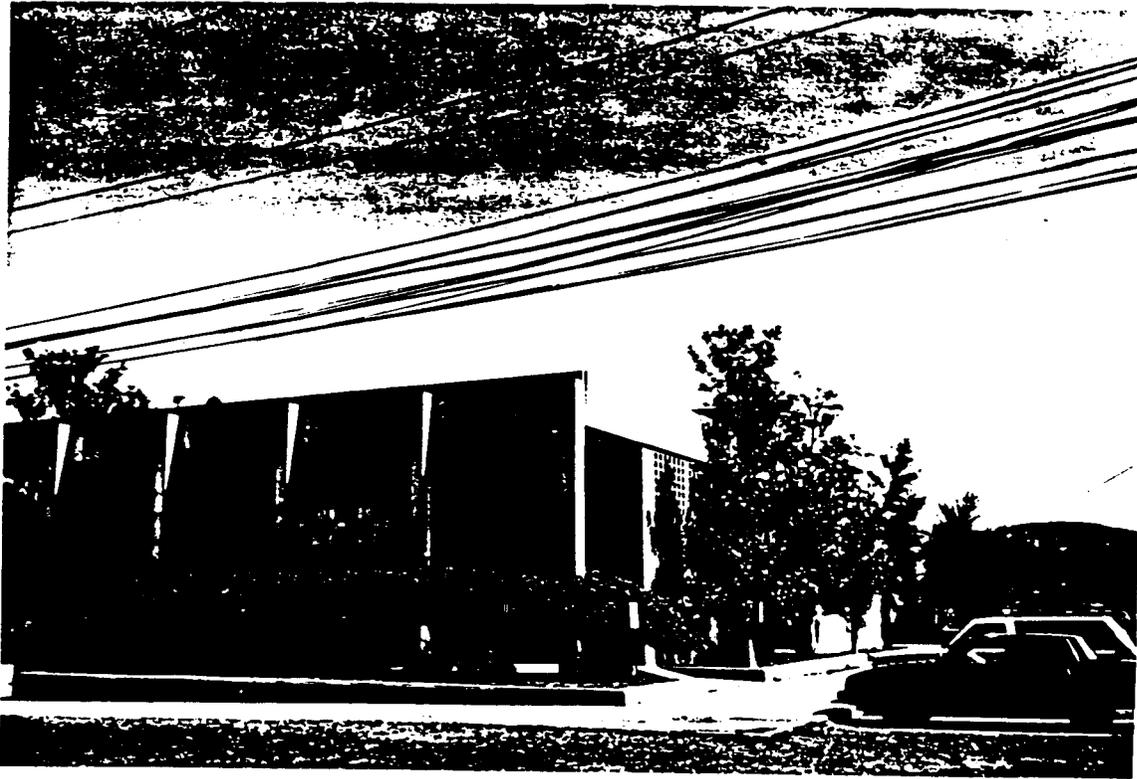


Figure 1. Front view of Building 2101.



Figure 2. Rear view of Building 2101. Note positive pink metal components (e.g., doors, door components, railings, etc.).

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 2102



**LEAD-BASED PAINT SURVEY
 REPORT FOR BUILDING 2102
 LIBRARY
 FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 2102 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

Date Surveyed: 03 February 1994
 Surveyors: KB, BS

Table 1
Ft. McClellan Building No. 2102
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094020394132501	1.1	1.3	81	N/A	Calibration Check
7094020394132501	1.2	1.3	81	N/A	Calibration Check
7094020394132501	1.3	1.3	81	N/A	Calibration Check

INTERIOR XRF READINGS

Room 1 (Main Library Area)

2102.1.1	-1.7	-0.2	20	Good	White Concrete Block Wall
2102.1.2	-0.5	-0.1	20	Good	White Sheetrock Column
2102.1.3	-1.4	-0.2	20	Good	White Concrete Block Wall
2102.1.4	0.3	0.5	20	Good	Yellow Metal Light Box
2102.1.5	0.2	0.2	81	Good	White Metal Light Box
2102.1.6	-0.8	-0.1	20	Good	Stained Wood Interior Window Casing
2106.1.7	-0.5	-0.1	20	Good	Yellow Sheetrock Wall
2106.1.8	0.1	-0.1	20	Good	White Concrete Ceiling
2102.1.9	0.3	-0.2	81	Good	Brown Metal Door Header
2102.1.10	0.8	0.6	81	Good	Green Wall (Inconclusive)
2102.1.11	-0.5	0.3	20	Good	Yellow Concrete Block Wall
2102.1.12	0.3	0.1	20	Good	Grey Metal Door

Room 2 (Men's Restroom)

2102.2.1	-2.0	-0.2	20	Good	White Concrete Wall
2102.2.2	0.5	1.3	81	Good	Black Metal Stall
2102.2.3	0.1	-0.1	20	Good	White Sheetrock Ceiling

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 2102
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
EXTERIOR XRF READINGS (continued)					
2012.4	-1.1	-0.2	20	Good	White Concrete Overhang
2102.5	2.1	2.1	20	Poor	Brown Metal Guide Wire Cover (Yellow paint visible)
7094020394142501	1.1	1.3	81	N/A	Calibration Check

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

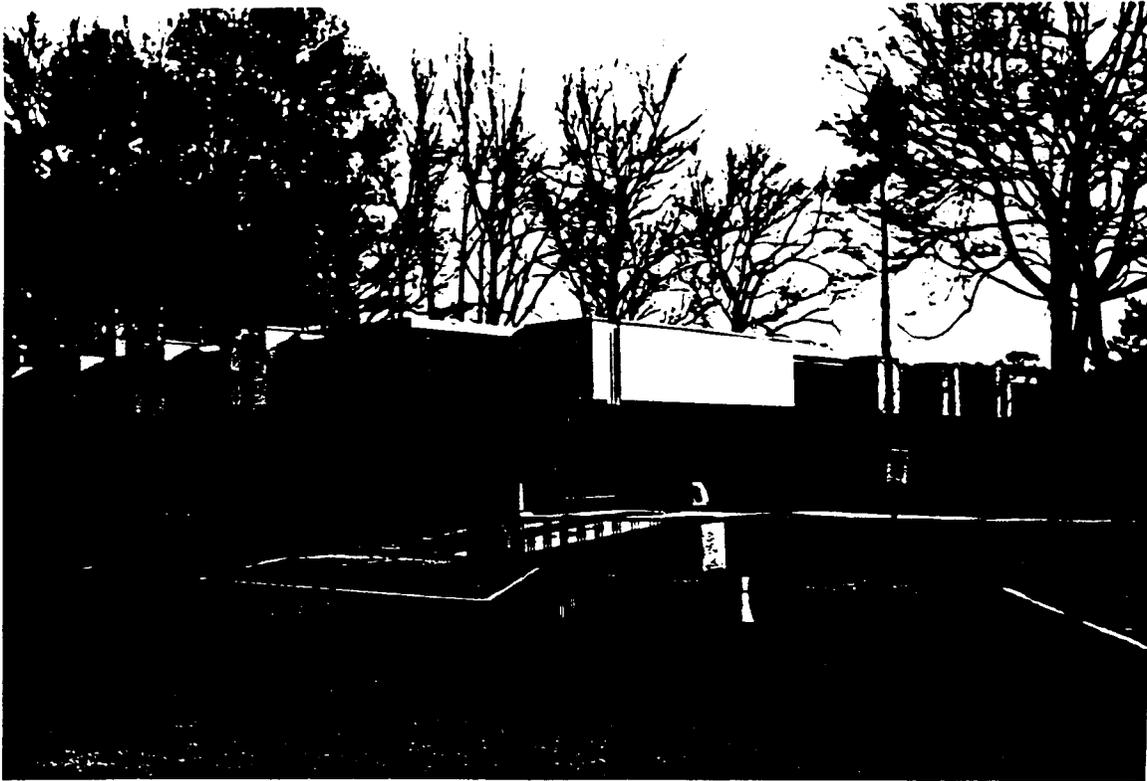
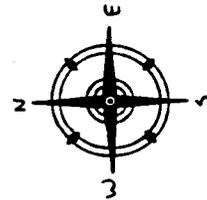
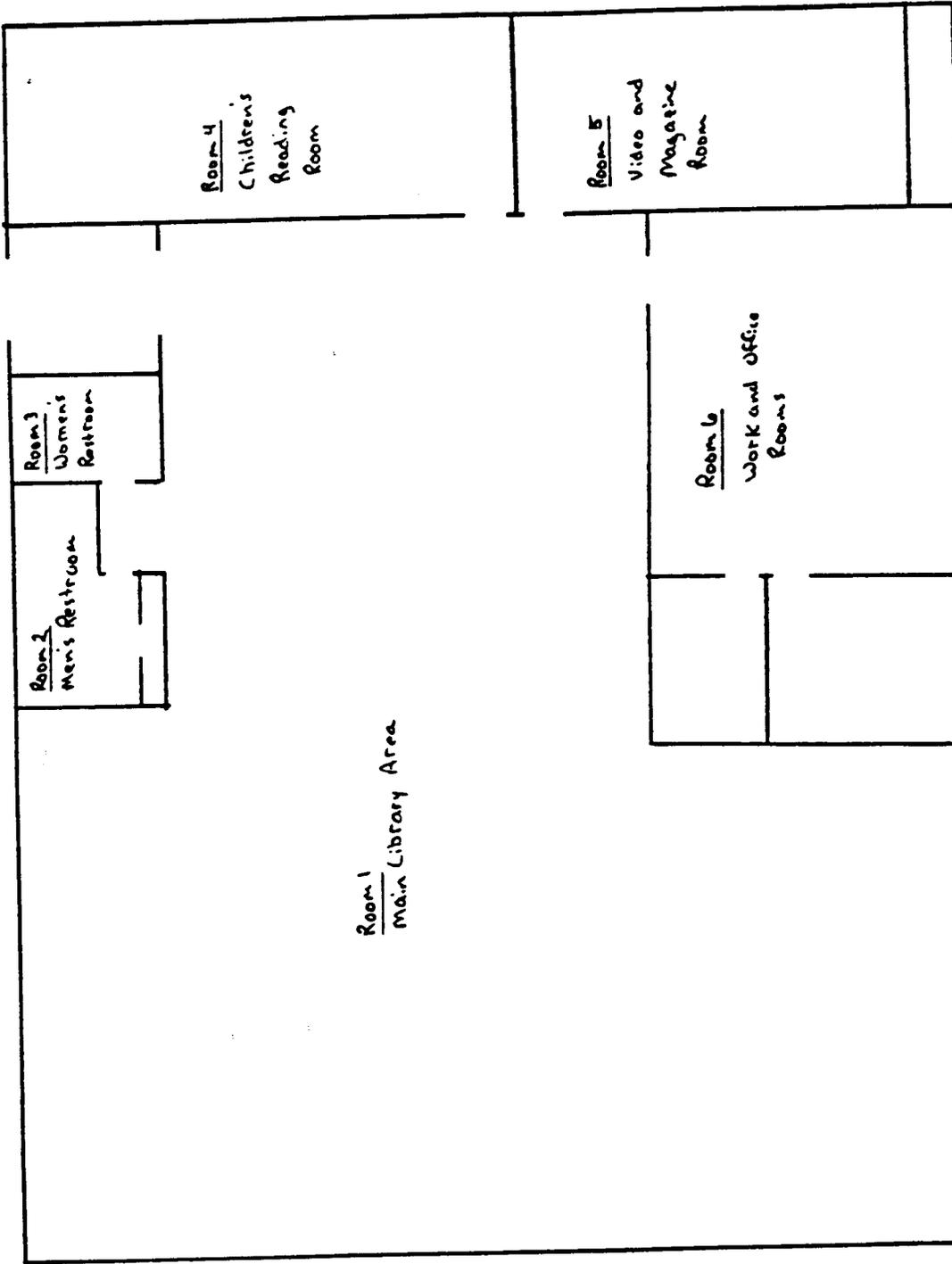


Figure 1. Front and side view of Building 2102.



Figure 2. Front view of Building 2102.

2102.5



Generalized Floorplan - Not to Scale

Only Locations of Positive XRF Readings (if any) Are Shown

Unit No. <u>2102</u>
Plate No. <u>1</u>

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 2213



**LEAD-BASED PAINT SURVEY
REPORT FOR BUILDING 2213
CHILD DEVELOPMENT CENTER
FT. McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Building 2213 located at Ft. McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. Photographs of the unit appear as Figures. The building floorplan, showing the locations of the XRF readings testing positive, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

(1) The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

(2) **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2
Confirm	0.85 - 1.15	mg/cm^2

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Building 2213 (Child Development Center), built in 1954, is a one story block structure with concrete and metal upper trim, metal and wood doors, and factory finished metal windows (see Figures).

8. Except for the area behind the former stage, the interior of this building appears to have been recently remodeled. Typical building materials (e.g., sheetrock, wood doors, metal door components, wood windows, etc.) were used throughout this building.

9. A total of one hundred twenty five (125) XRF readings were made on the interior of this building. One was positive for LBP. Twenty three (23) exterior XRF readings were taken. Seven (7) were positive for LBP (see Table 1).

Interior Summary

10. Only the wood door components (e.g., casing, jamb, etc.) on the exterior door in the area behind the former stage should be considered positive for lead-based paint (see Plate 1). All other interior XRF readings were negative.

Exterior Summary

11. Based on the XRF results, it is reasonable to assume that the older wood doors and door components on the exterior of this building are positive for lead-based paint. The lower tan section of the downspouts, exterior pipes regardless of color and metal panels are also positive (see Figure 3 and Plate 1).

Paint Condition

12. The paint on the interior and exterior of this building is in good condition.

Prepared By: Keith Bates
Keith Bates
Geologist

Reviewed By: Ray Willingham
Ray Willingham
Geologist

encls

Date Surveyed: 12 February 1994
 Surveyors: KB, NK

Table 1
Ft. McClellan Building No. 3527
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094021294071502	1.1	1.2	83	N/A	Calibration Check
7094021294071502	1.2	1.2	83	N/A	Calibration Check
7094021294071502	1.2	1.3	83	N/A	Calibration Check
7094021294071502	1.1	1.2	83	N/A	Calibration Check
7094021294071502	1.2	1.2	83	N/A	Calibration Check
0000	-0.1	-0.1	83	N/A	Blank
1.63	1.2	1.5	83	N/A	NIST Std. = 1.63

INTERIOR XRF READINGS

Room 1 (Receptionist's Office)

2213.1.1	-0.2	-0.1	20	Good	Yellow Sheetrock Wall
2213.1.2	-0.2	-0.1	20	Good	Brown Metal Door Jamb
2213.1.3	-0.6	-0.1	20	Good	Stained Wood Door

Room 2 (Secretary's Office)

2213.2.1	0.3	-0.1	20	Good	Yellow Sheetrock Wall
2213.2.2	0.3	-0.1	83	Good	Brown Metal Door Casing
2213.2.3	0.3	-0.1	83	Good	Brown Metal HVAC Cover
2213.2.4	-0.2	-0.1	20	Good	Stained Wood Door

Room 3 (Office)

2213.3.1	-0.0	-0.1	20	Good	Stained Wood Window Sill
2213.3.2	0.1	-0.0	20	Good	Stained Wood Window Sash
2213.3.3	0.1	-0.0	20	Good	Yellow Sheetrock Wall

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per EPA Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 2213
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 4 (Office)					
2213.4.1	0.1	-0.2	20	Good	Brown Metal Door Jamb
2213.4.2	-0.8	-0.1	20	Good	Stained Wood Door
2213.4.3	-0.5	-0.1	20	Good	Yellow Sheetrock Wall
2213.4.4	0.1	-0.1	20	Good	Stained Wood Window Sill
2213.4.5	-0.5	-0.1	20	Good	Stained Wood Window Sash
Room 5 (Teacher's Work Area)					
2213.5.1	-0.6	-0.1	20	Good	Yellow Sheetrock Wall
2213.5.2	0.3	-0.2	83	Good	Brown Metal Door Jamb
Room 6 (Isolation Room)					
2213.6.1	-0.5	-0.1	20	Good	Yellow Sheetrock Wall
2213.6.2	-0.1	-0.1	20	Good	Stained Wood Door
2213.6.3	-0.1	-0.1	20	Good	Brown Metal Door Jamb
Room 7 (Restroom)					
2213.7.1	-0.3	-0.1	20	Good	Stained Wood Door
2213.7.2	-0.1	-0.1	20	Good	White Sheetrock Wall
Room 8 (Restroom)					
2213.8.1	0.1	-0.0	20	Good	White Sheetrock Wall
2213.8.2	-0.7	-0.1	20	Good	Stained Wood Door
2213.8.3	0.1	-0.2	83	Good	Brown Metal Door Jamb
2213.8.3	0.0	-0.2	83	Good	Duplicate
7094021294084501	1.1	1.2	83	N/A	Calibration Check

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
Ft. McClellan Building No. 2213
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 9 (Classroom - Four Year Old)					
2213.9.1	-0.3	-0.1	20	Good	Tan Sheetrock Lower Wall
2213.9.2	0.1	-0.0	20	Good	Tan Sheetrock Upper Wall
2213.9.3	0.3	-0.1	83	Good	Brown Metal HVAC Cover
2213.9.4	0.3	-0.0	20	Good	Blue Sheetrock Lower Wall
3312.9.5	-0.2	-0.1	20	Good	Grey Sheetrock Upper Wall
2213.9.6	0.2	-0.1	20	Good	Stained Wood Window Sill
2213.9.7	-0.2	-0.1	20	Good	Stained Wood Window Sash
2213.9.8	-0.4	-0.1	20	Good	Stained Wood Door
Room 10 (Restroom)					
2213.10.1	0.2	-0.1	20	Good	Brown Metal Door Jamb
Room 11 (Classroom - Three Year Old)					
2213.11.1	-0.3	-0.1	20	Good	Blue Sheetrock Lower Wall
2213.11.2	0.2	-0.1	20	Good	Grey Sheetrock Upper Wall
2213.11.3	0.3	-0.1	20	Good	Tan Sheetrock Lower Wall
2213.11.4	0.1	-0.0	20	Good	Tan Sheetrock Upper Wall
2213.11.5	0.4	-0.1	83	Good	Brown Metal HVAC Cover
2213.11.6	0.0	0.1	20	Good	Stained Wood Window Sill
2213.11.7	0.1	-0.1	20	Good	Stained Wood Window Sash
2213.11.8	0.1	-0.1	20	Good	Black Wood Storage Shelf Trim

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surf paint films. The survey results are based on K-shell readings as per Guidelines.

Table 1 (continued)
Ft. McClellan Building No. 2213
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 12 (Restroom)					
2213.12.1	0.3	-0.1	20	Good	White Sheetrock Upper Wall
2213.12.2	-0.6	-0.1	20	Good	Tan Sheetrock Lower Wall
2213.12.3	0.0	-0.1	20	Good	Brown Metal Door Jamb
Room 13 (Toddler's Room)					
2213.13.1	0.1	-0.1	20	Good	Tan Sheetrock Lower Wall
2213.13.2	-0.9	-0.1	20	Good	Blue Sheetrock Lower Wall
2213.13.2	-0.6	-0.0	20	Good	Duplicate
7094021294092001	1.0	1.2	83	N/A	Calibration Check
2213.13.3	0.3	-0.1	83	Good	Tan Metal HVAC Cover
2213.13.4	-0.8	-0.2	20	Good	Stained Wood Door
2213.13.5	0.1	-0.2	83	Good	Brown Metal Door Jamb
Room 13 (Pretoddler's Room)					
2213.14.1	-0.7	-0.1	20	Good	Grey Sheetrock Upper Wall
2213.14.2	-0.1	-0.1	20	Good	Tan Sheetrock Lower Column
2213.14.3	-0.2	-0.1	20	Good	Stained Wood Window Sill
2213.14.4	-0.6	-0.1	20	Good	Stained Wood Window Sash

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
Ft. McClellan Building No. 2213
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 15 (Restroom)					
2213.15.1	-0.3	-0.2	20	Good	Brown Metal Door Jamb
2213.15.2	0.2	-0.1	20	Good	White Sheetrock Upper Wall
2213.15.3	-0.4	-0.1	20	Good	Tan Sheetrock Lower Wall
Room 16 (Classroom)					
2213.16.1	-0.9	-0.1	20	Good	Blue Sheetrock Wall
2213.16.2	0.4	-0.1	83	Good	Brown Metal HVAC Cover
2213.16.3	-0.4	-0.1	20	Good	Stained Wood Door
Room 17 (Classroom)					
2213.17.1	-0.1	-0.1	20	Good	Tan Sheetrock Lower Wall
2213.17.2	0.2	-0.2	83	Good	Brown Metal Door Jamb
2213.17.3	0.1	-0.1	20	Good	Stained Wood Window Sill
Room 18 (Multi-Purpose Room - Four Year Old)					
2213.18.1	0.0	0.1	83	Fair	Tan Stage Wood Cabinet
2213.18.2	0.6	0.1	334	Fair	Tan Stage Wood Cabinet
2213.18.3	0.1	-0.1	20	Fair	Stained Wood Stage Floor
2213.18.4	0.1	0.2	20	Good	White Block Wall
2213.18.5	0.1	0.1	20	Good	Yellow Block Wall
2213.18.6	-0.1	-0.1	20	Fair	Brown Metal Door Jamb
2213.18.7	-0.7	-0.0	20	Fair	Brown Wood Newel Post
2213.18.7	-0.7	-0.0	20	Fair	Duplicate
7094021294102001	1.1	1.2	83	N/A	Calibration Check

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per Guidelines.

Table 1 (continued)
Ft. McClellan Building No. 2213
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 28 (Kitchen)					
2213.28.1	-0.0	-0.1	20	Good	Tan Sheetrock Wall
2213.28.2	-0.2	-0.1	20	Good	Tan Sheetrock Ceiling
Room 29 (Classroom - School Age)					
2213.29.1	-0.1	-0.1	20	Good	Grey Sheetrock Upper Wall
2213.29.2	-0.5	-0.1	20	Good	Yellow Sheetrock Column
Room 30 (Pretoddler Area)					
2213.30.1	0.4	-0.1	83	Good	Blue Metal Door
2213.30.2	0.3	-0.1	20	Good	Blue Sheetrock Lower Wall
2213.30.2	0.0	-0.1	20	Good	Duplicate
7094021294115001	1.1	1.3	83	N/A	Calibration Check
2213.30.3	-0.3	-0.1	20	Good	Blue Wood Door
2213.30.4	-0.0	-0.1	20	Good	Blue Wood Curtain Jamb
2213.30.5	0.5	-0.1	83	Good	Blue Metal Door Jamb
Room 31 (Infant Activity Center)					
2213.31.1	0.2	-0.1	20	Good	Blue Sheetrock Wall
2213.31.2	-0.4	-0.1	20	Good	White Sheetrock Wall
2213.31.3	-0.2	-0.1	20	Good	Blue Wood Door
Room 32 (Hallway)					
2213.32.1	0.2	-0.1	20	Good	Tan Sheetrock Wall

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 2213
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
EXTERIOR XRF READINGS					
2213.1	-1.8	-0.1	20	Good	Brown Concrete Porch Column
2213.2	-2.2	-0.2	20	Good	Dark Brown Concrete Porch Column
2213.3	-1.4	-0.0	20	Good	Cream Block Wall
2213.4	0.4	-0.1	83	Good	Brown Metal Door
2213.5	1.6	1.1	83	Poor	Brown Metal Panel
2213.6	-1.4	-0.1	20	Good	Brown Concrete Column
2213.7	-1.7	-0.1	20	Poor	Cream Concrete Foundation
2213.8	1.7	1.5	83	Good	Yellow Metal Pipe
2213.9	-0.5	-0.1	20	Good	Cream Block Wall
2213.9	-0.4	-0.1	20	Good	Duplicate
7094021294121501	1.1	1.2	83	N/A	Calibration Check
2213.10	2.3	1.2	83	Fair	Tan Metal Downspout (Bottom section at ground level)
2213.11	-0.7	-0.1	20	Good	Cream Concrete Upper Trim
2213.12	-0.6	-0.2	20	Poor	White Concrete Foundation
2213.13	3.1	0.8	20	Poor	Brown/White Metal Pipe
2213.14	-0.7	0.0	20	Good	Tan Wood Shed Wall
2213.15	5.1	2.0	20	Poor	Brown Wood Basement Door
2213.16	-0.7	-0.0	20	Fair	Cream Concrete Wall
2213.17	10.2	2.1	20	Poor	Green Wood Door Jamb
2213.18	1.9	0.9	20	Fair	Brown Wood Door
2213.19	-0.3	-0.0	20	Good	Brown Wood Porch Apron

Positive XRF readings (if any) are in Bold.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per Guidelines.

Table 1 (continued)
Ft. McClellan Building No. 2213
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 18 (Multi-Purpose Room - Four Year Old - continued)					
2213.18.8	-0.6	-0.1	20	Fair	Brown Wood Stair Tread
2213.18.9	0.2	0.0	20	Fair	White Sheetrock Wall
2212.18.10	-0.3	-0.0	20	Good	White Block Wall
2213.18.11	0.1	-0.0	20	Good	Green Wood Door
2213.18.12	1.7	0.8	20	Good	Brown Wood Door Casing
2213.18.13	-0.1	0.0	20	Fair	White Concrete Column
2213.18.14	0.2	0	83	Fair	Green Metal Beam
2213.18.15	-1.1	-0.0	20	Poor	White Brick Wall
Room 19 (Smoking Lounge)					
2213.19.1	-0.3	-0.1	20	Good	Green Block Wall
2213.19.2	0.0	-0.1	20	Good	White Concrete Ceiling
2213.19.3	0.3	-0.1	83	Fair	Green Metal Window Casing
2213.19.4	0.4	0.0	83	Fair	Blue Metal Stall
2213.19.5	-0.7	-0.1	20	Fair	Stained Wood Floor
2213.19.6	-0.0	-0.1	20	Good	Brown Wood Door
Room 20 (Storage/Janitor/Office)					
2213.20.1	-0.3	-0.0	20	Good	White Block Wall
2213.20.2	0.6	-0.0	83	Fair	Green Metal Sash
2213.20.3	0.5	-0.1	83	Good	Brown Metal Door Jamb
2213.20.4	-0.3	-0.1	20	Good	Green Wood Door
Room 21 (Janitor's Closet)					
2213.21.1	0.2	-0.1	20	Good	White Wood Post
2213.21.2	0.2	-0.1	20	Good	White Sheetrock Wall

Positive XRF readings (if any) are in **Bold**.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.

Table 1 (continued)
Ft. McClellan Building No. 2213
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 22 (Boy's Restroom)					
2213.22.1	0.2	-0.1	20	Good	Blue Sheetrock Wall
2213.22.2	-0.0	-0.1	20	Good	Stained Wood Door
2213.22.3	0.3	-0.1	20	Good	Brown Metal Door Jamb
Room 23 (Girl's Restroom)					
2213.23.1	-0.1	-0.1	83	Good	Yellow Sheetrock Wall
2213.23.1	0.3	-0.1	83	Good	Duplicate
7094021294111001	1.0	1.2	83	N/A	Calibration Check
Room 24 (Three and Four Year Old Hourly Care Room)					
2213.24.1	0.3	-0.1	83	Fair	Tan Metal HVAC Cover
2213.24.2	-0.5	-0.1	20	Good	Blue Sheetrock Lower Wall
2213.24.3	0.2	-0.1	20	Good	White Sheetrock Wall
2213.24.4	-0.2	-0.2	20	Good	Brown Metal Door Jamb
Room 25 (Boy's Restroom)					
2213.25.1	0.1	-0.1	20	Good	White Sheetrock Wall
2213.25.2	-0.1	-0.1	20	Good	Stained Wood Door
Room 26 (Girl's Restroom)					
2213.26.1	0.4	-0.1	83	Good	Brown Metal Door Jamb
Room 27 (Classroom)					
2213.27.1	0.2	-0.1	20	Good	Stained Wood Window Sill
2213.27.2	-0.2	-0.1	20	Good	Stained Wood Window Sash
2213.27.3	0.4	-0.1	83	Good	Blue Sheetrock Wall
2213.27.4	-0.1	-0.1	20	Fair	Blue Metal HVAC Cover

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per Guidelines.

Table 1 (continued)
 Ft. McClellan Building No. 2213
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments

EXTERIOR XRF READINGS (continued)					
2213.20	0.3	-0.1	83	Fair	Brown Metal Door
2213.21	0.4	-0.1	83	Good	Brown Metal Pole
2213.22	0.6	0.0	83	Good	Brown Metal Railing
2213.23	-0.7	-0.1	20	Good	Cream Concrete Ceiling
7094021294124501	1.2	1.3	83	N/A	Calibration Check
1.63	1.1	1.4	83	N/A	NIST Std. = 1.63

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered paint surfaces) and L-Shell is essentially surface paint films. The survey results are based on K-shell readings as per HUD Guidelines.



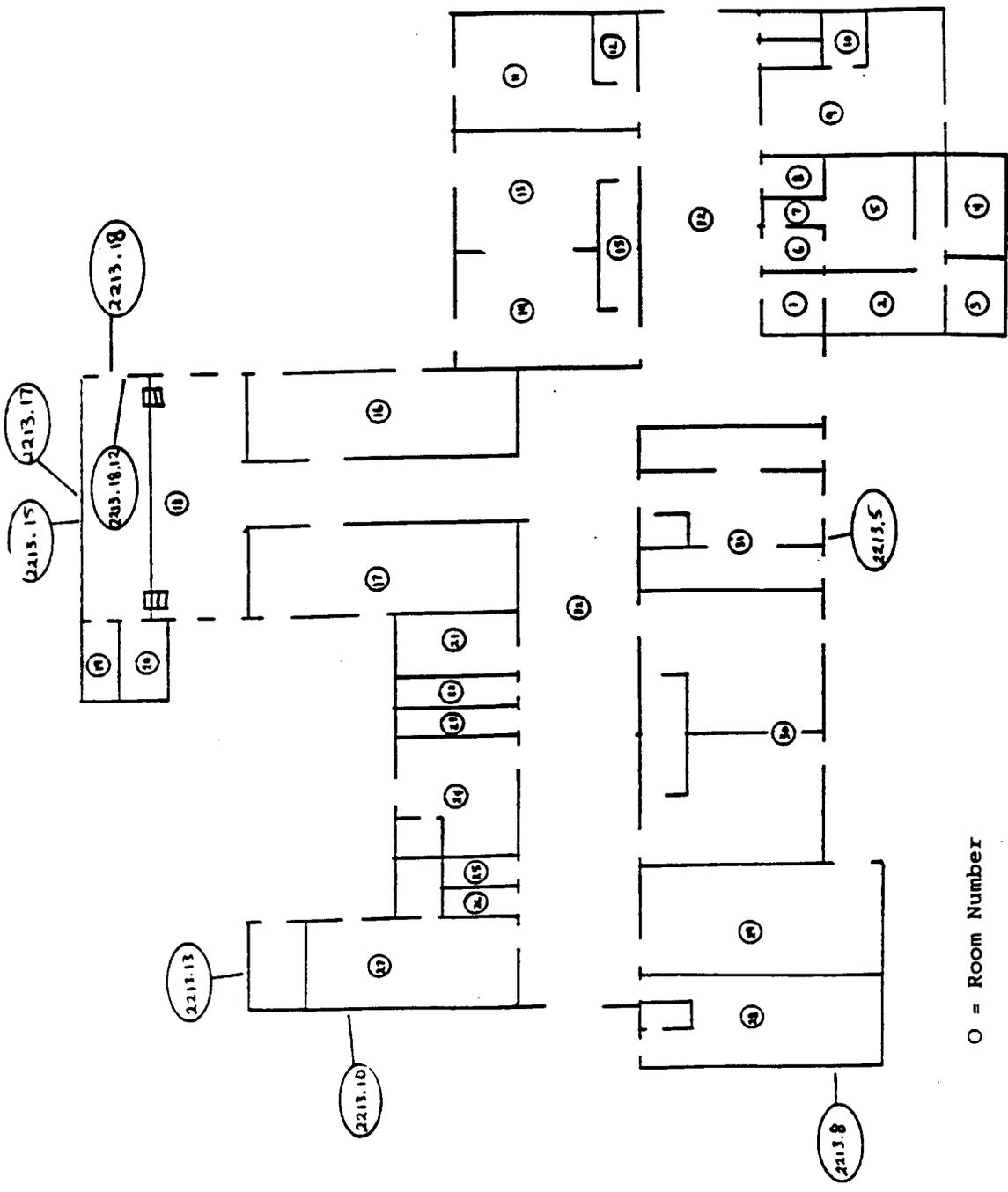
Figure 1. Front view of Building 2213.



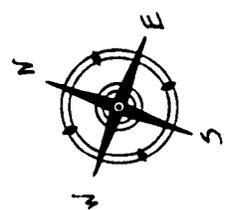
Figure 2. Side view of Building 2213. Note the positive wood door and door components.



Figure 3. Front side of Building 2213. Note the positive metal panel (cover) and the positive lower tan section of the downspout.



O = Room Number



Generalized Floorplan - Not to Scale

Locations of Positive XRF Readings (if any) Are Shown

Unit No. 2213

Plate No. 1

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING(S): 2235 AND 2236



LEAD-BASED PAINT SURVEY
REPORT FOR QUARTERS NO. 2235 and 2236, W.A.C CIRCLE
FORT McCLELLAN, ALABAMA

Introduction

1. This is the Lead-Based Paint (LBP) field survey report for Quarters No. 2235 and 2236 on W.A.C. Circle located at Fort McClellan, Alabama. This report documents the LBP field results for these two quarters. A map, showing the location of the units that were surveyed for LBP, appears as Plate 1.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The surveys were performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. The LBP survey results for the two houses tested appears in numerical order (by Unit No.) in the Appendix. A brief summary of the areas testing positive for LBP and a photograph of the buildings are provided. The actual field XRF readings follow the summary. The unit floorplans, showing the locations where positive XRF readings occurred, appear in the appendix.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

⁽¹⁾ The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

⁽²⁾ **Inconclusive Range For XRF Spectrum Analyzer**

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm^2
Test	0.7 - 1.3	mg/cm^2

5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell XRF reading be used for assigning positive determination.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. The two W.A.C Circle houses that were surveyed are one story, rock and concrete structures reportedly built in 1936. The exteriors of both units have painted wood and metal trim and aluminum storm windows. The interiors have painted wood window and door trim and wood baseboards. The floors are wood and the walls and ceilings are all plaster and sheetrock (in some areas). The floorplans are identical. There are visual age differences in similar woodwork components that were tested. This could account for the inconsistent XRF measurements on the same type components in different locations. This is not unusual for an older structure where modifications and a random painting history are suspected. The older, original woodwork is more likely to contain lead-based paint.

8. Eighty-one (81) XRF measurements were made at Quarters No. 2235 and 2236. Thirty-two (32) of those readings were determined to be positive for lead-based paint. Eleven of twenty-two exterior readings were positive and twenty-one of fifty-nine interior were concluded to be positive for lead-based paint. The XRF results are summarized in Table 1. It lists the number of similar surfaces and components tested in separate categories. It also includes the number of positive readings as a percentage for each category.

Exterior Summary

9. Based on the percentages of positive LBP readings, it is reasonable to assume that all exterior paint (walls, door and window trim, doors, eaves etc.) on both units contains positive levels of lead. There are a few exceptions. The porch ceilings appeared to be newer and tested negative. Some areas of the trim tested negative but also appeared to have been replaced in recent years. It is reasonable to assume that the paint on the surfaces identical to those testing positive, also contain positive levels of LBP.

Interior Summary

10. All doors and door components in both units tested positive for LBP. The baseboards, shelves and shelf supports all tested positive. A significant number of plaster ceilings also tested positive so they all should be considered positive for LBP. The walls, windows and kitchen cabinets all tested negative.

Paint Condition

11. In both units, all interior paint is in good condition. However, some of the exterior paint on trim components was fair to poor.

Prepared By: _____

Larry Martin
Civil Engineering Tech.

Reviewed By: _____

Ray Willingham
Geologist

Table 1
Summary Listing Components Tested At Quarters No. 2235 and 2236

COMPONENT	NUMBER TESTED	NUMBER POSITIVE	PERCENT POSITIVE
Exterior Components			
Porch Components	4	2	50
Doors	5	4	80
Door Components	3	3	100
Trim (e.g., soffits, rafters, cornerboards)	5	1	20
Walls	2	0	0
Screen Trim	2	1	50
Vent Frame	1	0	0
Interior Components			
Doors	5	4	80
Door Components	8	6	75
Window Sashes	2	0	0
Window Components	9	0	0
Plaster Ceilings	7	3	43
Sheetrock Ceilings	2	0	0
Plaster Walls	8	0	0
Sheetrock Walls	3	0	0
Wood Baseboards	7	5	71
Attic Scuttles	1	0	0
Shelves	3	1	33
Shelf Supports	2	2	100
Fan Frame	1	0	0
Kitchen Cabinets	1	0	0
TOTALS	81	32	40

**W.A.C. Circle Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 2235

Type Quarters: Two Bedroom (754 sq. ft.)
Date Constructed: 1936
Type Construction: Rock and Concrete

Survey Summary:

1. Quarters No. 2235 is a four room rock and concrete structure located in the W.A.C. Circle housing area.
2. Positive lead-based paint XRF readings were obtained on the porch trim and doors and door trim on the exterior of this unit. Positive XRF readings occurred on plaster ceilings, doors and door trim, baseboards, and shelf supports and shelves.
3. A photograph of Quarters No. 2235 appears below. The actual field XRF readings and a generalized floorplan showing the specific locations in which positive readings occurred, appear on the following pages.

**Field XRF Readings for Quarters 2235
Ft. McClellan, AL**

Date Surveyed: 17 February 1994
Surveyors: BL, JS

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094031794063501	0.4	0.6	106	N/A	Calibration Check
7094031794063501	0.4	0.6	106	N/A	Calibration Check
7094031794063501	0.4	0.6	106	N/A	Calibration Check
7094031794063501	0.4	0.6	106	N/A	Calibration Check
7094031794063501	0.4	0.6	106	N/A	Calibration Check
1.02	0.8	1.0	106	N/A	NIST Standard
Room 1 (Kitchen)					
2235.1.1	2.0	0.1	26	Good	White Plaster Ceili
2235.1.2	-1.8	-0.3	26	Good	White Plaster Wall
2235.1.3	-1.2	-0.3	26	Good	White Concrete Window Sill
2235.1.4	-0.3	-0.1	26	Good	Stained Wood Window Sash
2235.1.5	0.0	-0.1	26	Good	Stained Wood Window Casing
2235.1.6	0.1	-0.1	26	Good	Stained Wood Cabinet
2235.1.7	4.6	0.1	26	Good	White Wood Door Casing
2235.1.8	-0.0	-0.1	26	Good	White Wood Baseboard
Room 2 (Living/Dining Room)					
2235.2.1	-0.1	-0.1	26	Good	White Plaster Wall
2235.2.2	0.8	0.1	106	Good	White Plaster Ceiling * (Inconclusive-See Sample 2235.1.1)
2235.2.3	7.8	0.4	26	Good	White Wood Baseboard
2235.2.4	4.7	0.3	26	Good	White Wood Door Casing
2235.2.5	6.5	0.4	26	Good	White Wood Door

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 2235 Cont.
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 3 (Hallway and Bathroom)					
2235.3.1	0.2	-0.1	26	Good	White Sheetrock Ceiling
2235.3.2	0.1	-0.1	26	Good	White Sheetrock Wall
2235.3.3	-0.6	-0.1	26	Good	White Wood Fan Frame
2235.3.4	0.7	0.1	106	Good	White Plaster Ceiling (Inconclusive-See Sample 2235.1.1)
2235.3.5	8.8	0.4	26	Good	White Wood Baseboard
2235.3.5	8.0	0.4	26	Good	Duplicate
7094031794063501	0.4	0.6	106	N/A	Calibration Check
Room 4 (Bedroom and 1/2 Bathroom)					
2235.4.1	0.9	0.1	106	Good	White Wood Shelf Support (Inconclusive-See Sample 2235.5.1)
2235.4.2	0.1	-0.1	26	Good	White Wood Shelf
2235.4.3	0.3	0.1	26	Good	White Plaster Wall
2235.4.4	6.8	0.6	26	Good	White Wood Door Jamb
Room 5 (Bedroom)					
2235.5.1	1.7	0.1	26	Good	White Wood Shelf Support
2235.5.2	0.6	0.0	106	Good	White Plaster Ceiling
2235.5.3	0.4	0.1	106	Good	White Plaster Wall
2235.5.4	-1.1	-0.3	26	Good	White Concrete Window Sill

7094031794093001 1.2 1.4 106 N/A Calibration Check

Positive XRF Readings appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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**Field XRF Readings for Quarters 2235 Cont.
Ft. McClellan, AL**

ID#	K-Shell mg/cm²	L-Shell mg/cm²	Time seconds	Condition	Comments
=====					
EXTERIOR XRF READINGS					
2235.1	-1.3	-0.1	26	Poor	White Concrete Wall
2235.2	1.6	0.4	106	Good	White Metal Post
2235.3	0.2	-0.1	26	Good	White Wood Ceiling
2235.4	19.3	1.9	26	Good	White Wood Door Casing
2235.5	1.7	0.3	26	Good	White Wood Door Jamb
2235.6	0.0	-0.0	26	Good	White Wood Soffitt
2235.7	0.0	-0.1	26	Good	White Wood Trim
2235.8	0.3	-0.0	26	Good	White Wood Screen Trim
2235.9	1.8	0.7	26	Good	White Metal Door
2235.10	6.6	1.2	26	Good	White Wood Door

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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23 September 1994

**W.A.C. Circle Housing Area, Fort McClellan, Alabama
Lead-Based Paint Survey**

Quarters No. 2236

Type Quarters: Two Bedroom (754 sq. ft.)

Date Constructed: 1936

Type Construction: Rock and Concrete

Survey Summary:

1. Quarters No. 2236 is a four room rock and concrete structure located in the W.A.C. Circle housing area.
2. Lead-based paint was detected on porch trim, doors and door components, and screen frames on the exterior of Quarters No. 2236. Positive XRF readings occurred on doors and door trim, baseboards, and shelf supports and shelves.
3. A photograph of Quarters No. 2235 appears below. The actual field XRF readings and a generalized floorplan showing the specific locations in which positive readings occurred, appear on the following pages.

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Field XRF Readings for Quarters 2236
Ft. McClellan, AL

Date Surveyed: 17 February 1994

Surveyors: KB

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094031794063501	1.2	1.2	90	N/A	Calibration Check
7094031794063501	1.1	1.2	90	N/A	Calibration Check
7094031794063501	0.8	1.2	90	N/A	Calibration Check
7094031794063501	0.9	1.2	90	N/A	Calibration Check
7094031794063501	0.9	1.2	90	N/A	Calibration Check
1.63	1.0	1.4	90	N/A	NIST Standard
1.63	1.1	1.5	90	N/A	NIST Standard
Room 1 (Kitchen)					
2236.1.1	-0.0	0.1	22	Good	White Plaster Ceiling
2236.1.2	-1.5	-0.2	22	Good	White Concrete Window Sill
2236.1.3	0.5	-0.0	90	Good	White Plaster Wall
2236.1.4	3.5	0.2	22	Good	White Wood Door Casing
2236.1.5	0.3	-0.1	22	Good	White Wood Door
2236.1.6	-1.4	-0.1	22	Good	White Wood Baseboard
2236.1.7	-0.0	-0.1	22	Good	White Wood Door Jamb
Room 2 (Living/Dining Room)					
2236.2.1	9.4	0.5	22	Good	White Wood Baseboard
2236.2.2	8.3	0.5	22	Good	White Wood Door

2236.2.3	0.2	-0.1	22	Good	Casing White Wood Shelf
2236.2.4	5.6	0.4	22	Good	White Wood Door
2235.2.5	-0.0	-0.1	22	Good	White Wood Window Casing
2236.2.6	-0.8	-0.1	22	Good	White Wood Window Sill
2236.2.7	0.3	0.0	90	Good	White Plaster Ceiling
2236.2.8	0.2	-0.1	22	Good	White Sheetrock Wall

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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Field XRF Readings for Quarters 2236 Cont.
Ft. McClellan, AL

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====					
Room 3 (Bedroom)					
2236.3.1	6.3	0.7	22	Good	White Wood Door
2236.3.2	0.8	0.1	90	Good	White Plaster Wall
2236.3.3	3.3	0.3	22	Good	White Wood Shelf
2236.3.4	5.6	0.6	22	Good	White Wood Door Jamb
2236.3.5	2.0	0.7	22	Good	White Wood Baseboard
2236.3.6	-1.0	-0.1	22	Good	White Plaster Wall
Room 4 (Bedroom)					
2236.4.1	0.5	0.1	90	Good	White Plaster Wall
2236.4.2	0.2	-0.0	90	Good	White Plaster Ceiling
2236.4.3	0.1	-0.1	22	Good	White Wood Window Sash
2236.4.4	-0.3	-0.2	22	Good	White Concrete Window Sill
2236.4.5	0.1	-0.1	22	Good	White Wood Window Casing
2236.4.6	8.3	0.5	22	Good	White Wood Door Casing

Room 5 (Hallway and Bathroom)

2236.5.1	-0.1	-0.1	22	Good	White Sheetrock Wal.
2236.5.2	0.2	-0.1	22	Good	White Sheetrock Ceiling
2236.5.3	-0.4	-0.1	22	Good	White Wood Window Casing
2236.5.4	9.6	0.6	22	Good	White Wood Door
2236.5.5	-0.0	-0.1	22	Good	White Wood Attic Scuttle
2236.5.6	10.4	0.6	22	Good	White Wood Baseboard
2236.5.6	11.5	0.6	22	Good	Duplicate

Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

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23 September 1994

**Field XRF Readings for Quarters 2236 Cont.
Ft. McClellan, AL**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094031794093001	1.1	1.3	90	N/A	Calibration Check

EXTERIOR XRF READINGS

2236.1	-1.7	-0.0	22	Poor	Tan Concrete Wall
2236.2	2.4	0.5	22	Fair	Tan Metal Post
2236.3	0.0	-0.0	22	Fair	Tan Wood Ceiling
2236.4	1.3	0.5	90	Good	Tan Metal Door
2236.5	2.1	0.3	22	Fair	Tan Wood Screen Door
2236.6	31.7	2.3	22	Fair	Tan Wood Door Casing
2236.7	1.7	0.3	22	Poor	Tan Wood Eave
2236.8	-0.1	0.1	22	Good	Tan Wood Vent Frame
2236.9	2.2	0.4	22	Fair	Tan Wood Screen Trim
2236.10	-0.1	-0.0	22	Good	Tan Wood Soffitt
2236.11	0.0	-0.1	22	Good	Tan Wood Facia

2236.12	0.2	0.2	22	Good	Tan Wood Door
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Positive XRF Readings (if any) appear in **Bold**.

K-shell and L-shell columns are lead concentrations in mg/cm². K-shell is total lead (multi-layered paint surfaces) and L-shell is essentially surface paint films. All positive results are based on K-shell readings as per HUD guidelines.

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING(S): 2242



US ARMY CORPS OF ENGINEERS
SOUTH ATLANTIC DIVISION LABORATORY
611 SOUTH COBB DRIVE
MARIETTA, GEORGIA 30060-3112
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23 September 1994

**LEAD-BASED PAINT SURVEY
REPORT FOR QUARTERS NO. 2242, FAMILY HOUSING
FORT McCLELLAN, ALABAMA**

Introduction

1. This is the lead-based paint (LBP) field survey report for Quarters No. 2242 located at Fort McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings for this structure appear in Table 1. The building floorplan, showing the locations where positive XRF readings occurred, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test" ⁽¹⁾ mode is normally used for routine readings. Readings testing "positive" ⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

⁽¹⁾ The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases

precision.

(2)

Inconclusive Range For XRF Spectrum Analyzer

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm ²
Test	0.7 - 1.3	mg/cm ²
Confirm	0.85 - 1.15	mg/cm ²

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5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Quarters No. 2242 is a one story, concrete and wood frame house reportedly built in 1941. The house has wood trim and aluminum framed storm windows.

8. A total of forty-six (46) XRF measurements were made at Quarters No. 2242. Thirteen of those readings were determined to be positive for lead-based paint. Three positive measurements occurred in the interior and ten on the exterior. Refer to Table 1 for all XRF readings. The positive LBP values appear in **bold** type. Plate 1 is a generalized floorplan showing the specific locations where positive readings occurred.

9. In Quarters No. 2242 there are visual age differences in similar woodwork components that were tested. This could account for the inconsistent XRF readings on the window components. It is reasonable to assume that the paint on the surfaces identical to those testing positive, also contain lead-based paint.

Interior Summary

10. With the exception of the older window components (sashes and wells) all interior paint tested negative for lead-based paint.

Exterior Summary

10. All exterior paint on Quarters No. 2242 should be considered positive for lead-based paint. There are a few random exceptions. For example, the front porch floor which appears to have been replaced and the block foundation and various trim components also tested negative for LBP.

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Paint Condition

11. The positive leaded paint on the interior window components was in poor condition in some areas. The exterior paint is in poor condition.

Prepared By: _____

Larry Martin
Civil Engineering Tech.

Reviewed By: _____

Ray Willingham
Geologist

encl:

Table 1 (XRF readings)
Plate 1 (floorplan)

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CESAD-EN-FL

23 September 1994

Date Surveyed: 17 March 1994

Surveyed By: JS, BL

TABLE 1

Quarters No. 2242, Family Housing, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094031794111501	1.2	1.4	106	N/A	Calibration Check

Exterior XRF Readings

2242.1	17.7	2.6	26	Good	Green Wood Rafter
2242.2	-0.0	0.2	26	Good	Green Wood Eaves

2242.3	1.4	1.2	106	Good	Green Wood Porch Door
2242.4	0.0	-0.2	26	Good	White Wood porch Trim
2242.5	26.7	2.0	26	Poor	White Wood Siding
2242.6	1.4	-0.1	106	Poor	Green Wood Window Casing
2242.7	-0.9	-0.1	26	Poor	Green Wood Window Apron
2242.8	2.5	1.6	26	Poor	Green Wood Door
2242.9	-0.3	-0.1	26	Good	White Block Foundation
2242.10	-0.3	0.1	26	Poor	Gray Wood Porch Floor
2242.11	3.4	1.2	26	Poor	White Wood Porch Ceiling
2242.12	14.6	1.7	26	Poor	White Wood Porch Rafter
2242.13	12.1	2.4	26	Fair	White Wood Door Jamb
2242.14	18.3	2.9	26	Good	White Wood Door Casing
2242.15	16.6	1.7	26	Poor	White Wood Door

Interior XRF Readings

Room 1 (Living Room)

2242.1.1	-0.1	-0.1	26	Good	White Plaster Ceiling
2242.1.2	0.1	-0.1	26	Good	White Plaster Wall

Values in bold type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

CESAD-EN-FL

23 September 1994

TABLE 1
Quarters No. 2242, Family Housing, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
-----	-------------------------------	-------------------------------	-----------------	-----------	----------

=====

Room 1 (Living Room) Cont.

2242.1.3	0.0	-0.1	26	Good	Brown Wood Window Sill
2242.1.4	0.3	-0.1	26	Good	Brown Wood Window Apron
2242.1.5	1.6	-0.0	106	Poor	Brown Wood Window Sash
2242.1.6	16.7	2.5	26	Good	Green Wood Window Well
2242.1.7	-0.9	-0.1	26	Good	Brown Wood Door Casing
2242.1.8	-0.2	-0.1	26	Good	Brown Wood Baseboard
2242.1.9	-0.8	-0.1	26	Good	Brown Wood Door Jamb

Room 2 (Kitchen)

2242.2.1	-0.2	-0.1	26	Good	White Sheetrock Wall
2242.2.1	-0.5	-0.0	26	Good	Duplicate
7094031794063501	0.4	0.6	106	N/A	Calibration Check
2242.2.2	0.3	-0.1	26	Good	White Sheetrock Ceiling
2242.2.3	0.2	-0.0	26	Good	White Wood Cabinet
2242.2.4	-0.5	-0.1	26	Good	White Wood Baseboard

Room 3 (Side Porch/Office)

2242.3.1	3.6	1.3	26	Good	Brown Wood Door
2242.3.2	0.2	-0.1	26	Good	White Wood Door Casing
2242.3.3	0.0	-0.1	26	Good	White Sheetrock Ceiling
2242.3.4	0.3	-0.1	26	Good	White Sheetrock Wall
2242.3.5	0.2	-0.1	26	Good	White Wood Baseboard

Values in bold type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface

paint films.
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23 September 1994

TABLE 1
Quarters No. 2242, Family Housing, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 4 (Bedroom)					
2242.4.1	-0.1	-0.1	26	Good	White Wood Shelf Support
2242.4.2	0.2	-0.1	26	Good	White Wood Shelf
2242.4.3	0.1	-0.1	26	Good	White Plaster Ceiling
2242.4.4	-0.5	-0.1	26	Good	White Wood Window Sill
2242.4.5	-0.6	-0.1	26	Good	Brown Wood Door Jamb
Room 5 (Bedroom)					
2242.5.1	0.1	-0.2	26	Good	White Wood Shelf
2242.5.2	-0.4	-0.1	26	Good	White Wood Wall
2242.5.3	-0.2	-0.1	26	Good	Brown Wood Window Casing
2242.5.4	-0.1	-0.1	26	Good	Brown Wood Door Casing
Room 6 (Bedroom)					
2242.6.1	-0.5	0.2	26	Good	White Wood Window Apron
2242.6.2	0.1	-0.1	26	Good	White Wood Baseboard
2242.6.3	-0.7	-0.1	26	Good	White Wood Shelf Support
2242.6.4	0.0	-0.0	26	Poor	White Wood Door
Room 7 (Hall/Bath)					
2242.7.1	0.2	-0.1	26	Good	White Sheetrock Ceiling

2242.7.2	0.3	-0.1	26	Good	White Sheetrock Wall
7094031794111501	1.2	1.4	106	N/A	

Values in **bold** type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

**LEAD BASED PAINT
SURVEY REPORT**

BUILDING: 2271



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21 September 1994

LEAD-BASED PAINT SURVEY
REPORT FOR QUARTERS NO. 2271, FAMILY HOUSING
FORT McCLELLAN, ALABAMA

Introduction

1. This is the lead-based paint (LBP) field survey report for Quarters No. 2271 located at Fort McClellan, Alabama. This report documents the LBP field results for this building.
2. The LBP survey was conducted in accordance with general procedures in the April 1, 1990 HUD Guidelines (revised September 28, 1990) and EPA standard operating procedures (EPA document EPA600/8-91/214) for this instrument. The survey was performed by certified surveyors using a SCITEC MAP 3, X-ray Fluorescence Spectrometer (spectrum analyzer) XRF instrument.
3. A brief summary of the LBP survey is provided in this report. The actual field XRF readings appear in Table 1. Photographs of the unit appear as Figures 1 and 2. The building floorplan, showing the locations where positive XRF readings occurred, appears as Plate 1.
4. Positive readings (detectable lead above the action level) with the XRF vary depending on the instrument mode selected. The "test"⁽¹⁾ mode is normally used for routine readings. Readings testing "positive"⁽²⁾ according to the XRF instrument manufacturer in the test mode are those with a lead concentration greater than 1.3 milligrams per centimeter squared (mg/cm^2), whereas, "negative" refers to readings of $0.7 \text{ mg}/\text{cm}^2$ or less. According to the HUD guidelines, positive readings for this instrument are greater than $1.3 \text{ mg}/\text{cm}^2$. "Inconclusive" readings are those that fall between $0.7 \text{ mg}/\text{cm}^2$ and $1.3 \text{ mg}/\text{cm}^2$.

⁽¹⁾ The XRF instrument "test" mode is a reading of approximately 60 seconds duration. Test of longer duration increases precision.

Inconclusive Range For XRF Spectrum Analyzer

Instrument Mode	Range	Units
Screen	0.4 - 1.6	mg/cm ²
Test	0.7 - 1.3	mg/cm ²
Confirm	0.85 - 1.15	mg/cm ²

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5. The "action level" defined in the HUD Interim Guidelines is a lead concentration above 1.0 mg/cm². Lead concentrations in this report are shown for both K-shell and L-shell in Table 1. The L-shell XRF reading is essentially for the top 1 or 2 surface paint layers, whereas, the K-shell is total lead applicable for multi-layered paint surfaces. HUD Guidelines specify that the K-Shell results be used for evaluating XRF readings.

6. In this report paint condition stated as "good" is defined as intact; "fair" as intact but worn (minor chips from wear and tear but no adhesion or substrate problems); "poor" as severely worn or no longer adhering or, substrate deterioration (e.g., peeling, flaking, cracking, etc.).

Discussion

7. Quarters No. 2271 is a one story, wood frame structure reportedly built in 1943. It has vinyl siding, metal soffits and upper fascia trim and factory finished metal windows. The front porch appears to have been refurbished. Photographs of Quarters No. 2271 appear as Figures 1 and 2.

8. A total of thirty-seven (37) XRF measurements were made at Quarters No. 2271. Twenty-two (22) of those readings were determined to be positive for lead-based paint. Nineteen (19) positive measurements occurred in the interior and three on the exterior. Refer to Table 1 for all XRF readings. The positive LBP values are shown in **bold type**. Plate 1 is a generalized floorplan showing the specific locations where positive readings occurred.

9. In Quarters No. 2271 there are visual age differences in

similar woodwork components that were tested. This could account for the inconsistent XRF measurements on the same type components in different locations. This is not unusual for an older structure where modifications and a random painting history are suspected. The older, original wood components are more likely to have been painted with lead-based paint. It is reasonable to assume that the paint on the surfaces identical to those testing positive, also contain lead-based paint.

Interior Summary

10. All window trim (sills, aprons, casings, and frames) is considered positive for LBP. All door trim and doors, baseboards and shelf supports contain positive levels of LBP. The fireplace mantle also tested positive. Walls and ceilings all tested negative.

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Exterior Summary

11. The ceiling beams and rafters of the front screened porch contain positive levels of leaded paint. The front door also tested positive for LBP.

Paint Condition

12. The interior paint in general was in good condition. The positive paint on the screened porch ceiling and front door was in fair to poor condition.

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Table 1 (XRF readings)
Figure 1 and 2 (photos)
Plate 1 (floorplan)

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Date Surveyed: 17 March 1994

Surveyed By: KB, LM

TABLE 1
Quarters No. 2271, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
7094031794093001	1.1	1.3	90	N/A	Calibration Check

Interior XRF Readings

Room 1 (Living Room)

2271.1.1	4.0	0.2	22	Good	White Wood Fireplace Mantle
2271.1.2	-0.8	-0.0	22	Good	White Brick Fireplace
2271.1.3	0.2	-0.2	22	Good	White Sheetrock Wall
2271.1.4	4.7	0.4	22	Good	White Wood Window Sill
2271.1.5	4.9	0.4	22	Good	White Wood Window Casing
2271.1.6	-0.1	-0.1	22	Good	White Wood Baseboard
2271.1.7	0.0	-0.1	22	Good	White Wood Door
2271.1.8	4.2	0.4	22	Good	White Wood Door Casing
2271.1.9	17.0	4.4	22	Good	White Wood Door Jamb
2271.1.10	-0.4	-0.1	21	Good	White Sheetrock Ceiling

Room 2 (Dining Room)

2271.2.1	3.7	0.5	22	Good	White Wood Window Casing
2271.2.2	3.8	0.5	22	Good	White Wood Window Apron
2271.2.3	0.3	-0.1	22	Good	White Wood Baseboard

Values in **bold** type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

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**TABLE 1 Cont.
Quarters No. 2271, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results**

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====

Room 2 (Dining Room) Cont.

2271.2.4	0.2	-0.1	22	Good	White Sheetrock Wall
2271.2.5	3.3	0.5	22	Good	White Wood Door Jamb
2271.2.6	4.4	0.8	22	Good	White Wood Door

Room 3 (Kitchen)

2271.3.1	0.2	-0.1	22	Good	White Sheetrock Ceiling
2271.3.2	-0.1	-0.1	22	Good	White Sheetrock Wall
2271.3.3	-0.4	-0.1	22	Good	White Wood Window Sill
2271.3.4	15.3	2.8	22	Good	White Wood Door Jamb
2271.3.4	16.1	2.8	22	Good	Duplicate
7094031794102001	0.9	1.2	90	N/A	Calibration Check
2271.3.5	0.3	0.0	22	Fair	White Sheetrock Wall
2271.3.6	-0.1	-0.1	22	Good	White Wood Window Apron

Room 4 (Bedroom)

2271.4.1	3.1	0.3	22	Good	White Wood Window Sill
2271.4.2	2.6	0.4	22	Good	White Wood Baseboard
2271.4.3	0.2	-0.0	22	Good	White Sheetrock Wall
2271.4.4	0.0	-0.1	22	Good	White Wood Shelf
2271.4.5	-0.0	-0.1	22	Good	White Wood Cabinet Door

Values in **bold** type are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

TABLE 1 Cont.
 Quarters No. 2271, Fort McClellan, Alabama
 Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm ²	L-Shell mg/cm ²	Time seconds	Condition	Comments
Room 4 (Bedroom) Cont.					
2271.4.6	2.1	0.3	22	Good	White Wood Door Casing
2271.4.7	2.0	0.3	22	Good	White Wood Door
Room 5 (Bedroom)					
2271.5.1	1.9	0.3	22	Good	White Wood Window Apron
2271.5.2	2.5	0.5	22	Good	White Wood Baseboard
2271.5.3	2.6	0.5	22	Good	White Wood Door
2271.5.4	-0.3	-0.1	22	Fair	White Wood Shelf
2271.5.5	2.8	0.6	22	Poor	White Wood Shelf Support
Room 6 (Bathroom/Hall)					
2271.6.1	0.2	0.2	22	Good	White Block Wall
2271.6.2	2.5	0.3	22	Good	White Wood Window Casing
2271.6.3	0.5	-0.1	22	Good	White Sheetrock Ceiling
Exterior XRF Readings					
2271.1	-0.2	0.0	22	Good	White Wood Porch Support
2271.2	-1.0	-0.2	22	Good	White Block Foundation
2271.3	-0.6	-0.2	22	Good	White Brick Foundation
2271.4	0.1	-0.1	22	Fair	White Wood Door

2271.5	0.2	-0.0	22	Good	White Wood Porch
2271.6	-1.7	-0.2	22	Poor	Red Concrete Porch Floor

Values in **bold type** are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

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TABLE 1 Cont.
Quarters No. 2271, Fort McClellan, Alabama
Lead-Based Paint Field Survey Results

ID#	K-Shell mg/cm²	L-Shell mg/cm²	Time seconds	Condition	Comments
=====	=====	=====	=====	=====	=====
Exterior XRF Readings Cont.					
2271.7	40.4	1.7	22	Good	White Wood Porch Beam
2271.8	36.4	1.5	22	Poor	White Wood Porch Ceiling
2271.9	1.4	1.2	90	Fair	Green Wood Door
2271.9	1.5	1.3	90	Fair	Duplicate
7094031794102001	0.9	1.2	90	N/A	Calibration Check

Values in **bold type** are positive.

K-Shell and L-Shell columns are lead concentrations in mg/cm². K-Shell is total lead (multi-layered surfaces) and L-Shell is essentially surface paint films.

Figure 1. Front view of Quarters No. 2271 located at Fort McClellan, Alabama.

Figure 2. Rear view of Quarters No. 2271.