FINAL

Lead-Based Paint Risk Assessments (Phase II)

Fort McClellan

Calhoun County, Alabama

February 2001

Task Order CK14
Contract Number DACA21-96-D-0018

IT CORPORATION
A Member of The IT Group

US Army Corps
of Engineers
Mobile District

Response to Comments on the Draft Lead-Based Paint Risk Assessments (Phase II) Fort McClellan, Calhoun County, Alabama

Prepared for:

U.S. Army Corps of Engineers Mobile District
109 St. Joseph Street
Mobile, Alabama 36602

Prepared by:

IT Corporation
312 Directors Drive
Knoxville, Tennessee 37923

Task Order CK14
Contract No. DACA21-96-D-0018
IT Project No. 805593

February 2001

DRAFT LEAD-BASED PAINT RISK ASSESSMENTS (PHASE II)
FORT McCLELLAN, ALABAMA
RESPONSE TO COMMENTS BY FTMC

COMMENTS ON DRAFT SITE INVESTIGATION REPORT

Comment 1: **Page 1-2, Line 24.....DELETE sentence "Several buildings were multiple levels containing greater than 20 units".**

Response: The text will be revised.

IT Corporation
312 Directors Drive
Knoxville, TN 37923-4799
Tel. 865.690.3211
Fax. 865.690.3626

A Member of The IT Group

the IT group

January 10, 2001

IT-MC-CK14-0028
Project No. 805593

Mr. Ellis Pope
U.S. Army Corps of Engineers, Mobile District
Attn: CESAM-EN-GE (Pope)
109 St. Joseph Street
Mobile, Alabama 36602

Contract: **Contract No. DACA21-96-D-0018/CK14**
Fort McClellan, Alabama

Subject: **Draft Lead-Based Paint Risk Assessments (Phase II)**

Dear Mr. Pope:

I am enclosing one copy of the Draft Lead-Based Paint Risk Assessments (Phase II). This report describes the activities and conclusions of the November 2000 lead-based paint risk assessments that IT conducted at Fort McClellan.

At your request, I have distributed copies of this document as indicated below. If you have questions, or need further information, please contact me at (770) 663-1429 or Steve Moran at (865) 694-7361.

Sincerely,

Jeanne A. Yacoub, P.E.
Project Manager

Attachments

Distribution: Lisa Kingsbury, FTMC (8 copies)

Draft

Lead-Based Paint Risk Assessments (Phase II)

Fort McClellan
Calhoun County, Alabama

Prepared for:

U.S. Army Corps of Engineers, Mobile District
109 St. Joseph Street
Mobile, Alabama 36602

Prepared by:

IT Corporation
312 Directors Drive
Knoxville, Tennessee 37923

Task Order CK14
Contract Number DACA21-96-D-0018
IT Project Number 805593

January 2001

Revision 0

Table of Contents

Table of Contents (Continued)

Page

List of Tabs and Tables

Tab Name	Tables
Building 3500	Wipe Sample Risk Assessment Analytical Results
Building 3502	Wipe Sample Risk Assessment Analytical Results
Building 3517	Wipe Sample Risk Assessment Analytical Results
Building 3519	Wipe Sample Risk Assessment Analytical Results
Building 3520	Wipe Sample Risk Assessment Analytical Results
Building 3524	Wipe Sample Risk Assessment Analytical Results
Building 3526	Wipe Sample Risk Assessment Analytical Results
Building 3528	Wipe Sample Risk Assessment Analytical Results
Building 3530	Wipe Sample Risk Assessment Analytical Results
Building 3531	Wipe Sample Risk Assessment Analytical Results
Building 3532	Wipe Sample Risk Assessment Analytical Results
Building 3533	Wipe Sample Risk Assessment Analytical Results
Building 3534	Wipe Sample Risk Assessment Analytical Results
Building 3535	Wipe Sample Risk Assessment Analytical Results
Building 3536	Wipe Sample Risk Assessment Analytical Results
Building 3537	Wipe Sample Risk Assessment Analytical Results
Building 3538	Wipe Sample Risk Assessment Analytical Results
Building 3540	Wipe Sample Risk Assessment Analytical Results
Building 3610	Wipe Sample Risk Assessment Analytical Results
Building 3611	Wipe Sample Risk Assessment Analytical Results
Building 3612	Wipe Sample Risk Assessment Analytical Results
Building 3614	Wipe Sample Risk Assessment Analytical Results
Building 3615	Wipe Sample Risk Assessment Analytical Results
Building 3616	Wipe Sample Risk Assessment Analytical Results
Building 3617	Wipe Sample Risk Assessment Analytical Results
Building 3618	Wipe Sample Risk Assessment Analytical Results
Building 3619	Wipe Sample Risk Assessment Analytical Results
Building 3620	Wipe Sample Risk Assessment Analytical Results
Building 3622	Wipe Sample Risk Assessment Analytical Results

List of Tabs and Tables *(Continued)*

List of Acronyms

DOD	U.S. Department of Defense
EPA	U.S. Environmental Protection Agency
FTMC	Fort McClellan
HUD	U.S. Department of Housing and Urban Development
IT	IT Corporation
LBP	lead-based paint
$\mu g/ft^2$	micrograms per square foot
SHP	safety and health plan
USACE	U.S. Army Corps of Engineers
XRF	x-ray fluorescence

1.0 Introduction and Site Description

1.1 Introduction

The U.S. Army Corps of Engineers (USACE) Mobile District, retained IT Corporation (IT) to perform lead-based paint (LBP) risk assessment wipe sampling for lead at multiple buildings located at Fort McClellan (FTMC) in Calhoun County, Alabama. Unified Testing Services, Inc., of Birmingham, Alabama performed the LBP risk assessments. Unified Testing Services, Inc. is a licensed Alabama LBP consulting firm (ALPb-0331, issue date November 1, 2000). The LBP risk assessment wipe sampling was performed on November 6 through November 9, 2000. Schneider Laboratories, Inc. of Richmond, Virginia, analyzed the lead-wipe samples.

Of approximately 1,100 units at FTMC, 173 units had x-ray fluorescence (XRF) LBP survey. This survey was performed in 1994 by the USACE South Atlantic Division. Copies of their survey reports were provided to IT during the field work. Fifty-nine of 173 units are scheduled for demolition. The remaining 114 units required a LBP risk assessment. In April 2000, IT performed Phase I LBP surveys, LBP risk assessments, and/or lead-in-soil sampling at 39 units at FTMC. Results of the Phase I sampling event were presented in the *Final Lead-Based Paint Surveys and Risk Assessments (Phase I), Fort McClellan, Calhoun County, Alabama* (IT, 2001).

This report presents results for the Phase II LBP risk assessment wipe sampling performed in the following buildings at FTMC:

Building 3500	Building 3538	Building 3632
Building 3502	Building 3540	Building 3635
Building 3517	Building 3610	Building 3637
Building 3519	Building 3611	Building 3640
Building 3520	Building 3612	Building 3643
Building 3524	Building 3614	Building 3652
Building 3526	Building 3615	Building 3659
Building 3528	Building 3616	Building 3662
Building 3530	Building 3617	Building 3664
Building 3531	Building 3618	Building 3665
Building 3532	Building 3619	Building 3668
Building 3533	Building 3620	Building 3670
Building 3534	Building 3622	Building 3671

Building 3535	Building 3624	Building 3672
Building 3536	Building 3626	Building 3673
Building 3537	Building 3629	

Field work was performed in accordance with the December 1999 U.S. Department of Defense (DOD) and U.S. Environmental Protection Agency (EPA) Interim Final document titled "Lead-Based Paint Guidelines for Disposal of Department of Defense Residential Real Property - A Field Guide" (DOD/EPA, 1999) (hereinafter referred to as the DOD field guide). In addition to the DOD field guide, work was also performed in accordance with the February 2000 statement of work for Task Order CK14. The U.S. Army is planning to transfer this property to the local land reuse authority. The DOD field guide requires that a LBP risk assessment be performed within 12 months of the date of transfer. This report provides details of the procedures and analytical methods used to perform the LBP risk assessment wipe sampling at the aforementioned buildings at FTMC. All field health and safety requirements were performed in conjunction with the IT installation-wide safety and health plan (SHP), which is Appendix A of the installation-wide sampling and analysis plan (IT, 2000). This report and all work were performed in accordance with EM-200-1-3 (USACE, 1994).

The risk assessment wipe samples were collected by licensed state of Alabama LBP inspectors/risk assessors working for a consulting firm also licensed by the state of Alabama to provide LBP consulting services. In addition, all individuals who were on site were trained and certified to meet the requirements of the sampling work plan and the SHP. Copies of licenses and certifications are provided in Appendix A.

1.2 Site Description

The LBP risk assessment consisted of dust wipe sample collection in 47 buildings (55 individual units) at FTMC. [redacted] Most buildings were single-level containing 3 to 5 residential housing units. These units were multiple or single bedroom units, containing 1 kitchen, 1 bathroom, and a living room. At the time this survey was performed, all windows were covered and secured with plywood.

2.0 Sampling and Analytical Methodologies

2.1 Risk Assessment Wipe Sampling

Lead risk assessment wipe samples were collected as required in the DOD field guide. The wipe sample analytical results are summarized in Chapter 3.0.

Wipe samples were only collected from positive LBP-painted window troughs (wells) and from floors where LBP-painted walls were observed. Composite sampling was performed for each of the above components within each unit as defined in the DOD field guide. For floor composite samples, a preformed square measuring approximately 1 square foot was used. Dust wipe samples were then collected with commercially available, nonalcohol and non-aloe-containing baby wipes. The risk assessor wore disposable latex gloves. When applicable, the measured area was wiped in an S-pattern, the wipe was then folded inward, and the area was wiped again in an opposite S-pattern. The dust wipe was then folded inward again and placed into a centrifuge tube. The surface area of each wipe was recorded to accurately convert analytical results into micrograms per square foot ($\mu g/ft^2$). Each composite sample location was recorded on a facility drawing. Composite sample locations were marked with a red paint pen or equivalent. Composite wipe samples from similar component samples collected from within each individual unit were combined into the same centrifuge tube. No more than four composite wipe samples were placed into one centrifuge tube.

Each sample was given a unique sample identification number as follows: FTMC - 3500/3500A - 1106 - W001 (or D001).

In this sample identification scheme, “FTMC" means Fort McClellan; "3500/ 3500A" refers to Building 3500, Unit 3500A; "1106" refers to the date (month and day) the sample was collected; and "W001" or "D001" refers to wipe sample number 001.

Analytical results for dust wipe samples were compared to the criteria guidelines presented in the DOD field guide. As defined in the DOD field guide, the LBP hazard criterion for lead dust is greater than or equal to 40 $\mu g/ft^2$ on carpeted and uncarpeted interior floors. Per the U.S. Department of Housing and Urban Development (HUD) Guidelines (HUD, 1995), the LBP hazard criterion for lead dust in window troughs is greater than or equal to 800 $\mu g/ft^2$.

2.2 Analytical

Dust wipe samples were analyzed by Schneider Laboratories using atomic absorption spectroscopy per EPA Method 3050B/7420. Schneider Laboratories is recognized by the EPA under the National Environmental Lead Laboratory Accreditation Program.

3.0 Building-Specific Results

3.1 Building 3500

Unit 3500A. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (D002) from the floors within Building 3500 (Unit 3500A). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

Unit 3500C. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (W002) from the floors within Building 3500 (Unit 3500C). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3500" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.2 Building 3502

Unit 3502B. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (W003) from the floors within Building 3502 (Unit 3502B). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

Unit 3502D. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (D003) from the floors within Building 3502 (Unit 3502D). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3502" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.3 Building 3517

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected one wipe sample (W004) and one field duplicate wipe sample (W005FD) from the floor within Building 3517 (Unit 3517B). The wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3517" located at the end of this report. A figure showing sample locations is also presented in this building-specific section.

3.4 Building 3519

The 1994 original LBP survey detected no lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected one wipe sample (W001) from the floor within Building 3519 (Unit 3519B). The wipe sample result was below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3519" located at the end of this report. A figure showing the sample location is also presented in this building-specific section.

3.5 Building 3520

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (D004) from the floors within Building 3520 (Unit 3520E). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3520" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.6 Building 3524

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (D005) from the floors within Building 3524 (Unit 3524C). All wipe sample results were below the DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3524" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.7 Building 3526

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected one wipe sample (D001) from the floor within Building 3526 (Unit 3526B). The wipe sample result was below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3526" located at the end of this report. A figure showing sample locations is also presented in this building-specific section.

3.8 Building 3528

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (W006) from the floors within Building 3528 (Unit 3528D). The wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3528" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.9 Building 3530

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (W007) from the floors within Building 3530 (Unit 3530C). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3530" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.10 Building 3531

Unit 3531B. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (D007) from the floors within Building 3531 (Unit 3531B). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

Unit 3531E. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (W009) from the floors within Building 3531 (Unit 3531E). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3531" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.11 Building 3532

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (D006) from the floors within Building 3532 (Unit 3532D). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3532" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.12 Building 3533

Unit 3533C. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected three composite wipe samples (W010) from the floors within Building 3533 (Unit 3533C). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

Unit 3533E. The 1994 original LBP survey detected lead at concentrations greater than

1.0 µg/cm^2 in the walls and window troughs. IT collected three composite wipe samples (D008) from the floors within Building 3533 (Unit 3533E). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3533" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.13 Building 3534

The 1994 original LBP survey detected lead at concentrations greater than 1.0 µg/cm^2 in the walls. IT collected four composite wipe samples (W008) from the floors within Building 3534 (Unit 3534B). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3534" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.14 Building 3535

Unit 3535B. The 1994 original LBP survey detected lead at concentrations greater than 1.0 µg/cm^2 in the walls. IT collected three composite wipe samples (D009) from the floors within Building 3535 (Unit 3535B). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

Unit 3535D. The 1994 original LBP survey detected lead at concentrations greater than 1.0 µg/cm^2 in the walls. IT collected four composite wipe samples (W011) from the floors within Building 3535 (Unit 3535D). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3535" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.15 Building 3536

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected three composite wipe samples (D010) from the floors within Building 3536 (Unit 3536E). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3536" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.16 Building 3537

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected two composite wipe samples (W012) from the floors within Building 3537 (Unit 3537A). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3537" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.17 Building 3538

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected one wipe sample (W013) from the floor within Building 3538 (Unit 3538F). The wipe sample result was below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3538" located at the end of this report. A figure showing the sample location is also presented in this building-specific section.

3.18 Building 3540

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected three composite wipe samples (D011) from the floors within Building 3540 (Unit 3540E). All wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3540" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.19 Building 3610

IT collected four composite wipe samples (W014) from within Building 3610 (Unit 3610B). Composite samples were collected from the floor in kitchen number 1, living room number 2, and bedroom numbers 2 and 4. All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite samples (W015) from the window troughs in kitchen number 1, living room number 2, and bedroom numbers 2 and 4. Sample W015 was analyzed with a lead concentration of 824.4 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3610" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.20 Building 3611

IT collected four composite wipe samples (D012) from within Building 3611 (Unit 3611A). Composite samples were collected from kitchen number 1, and bedroom numbers 2, 3, and 4. IT also collected four composite wipe samples (D013) from the window troughs in kitchen number 1, and bedroom numbers 2, 3, and 4. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3611" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.21 Building 3612

IT collected four composite wipe samples (W016) from within Building 3612 (Unit 3612A). The composite samples were collected from the floors in kitchen number 1, living room number 2, and bedroom numbers 3 and 4. IT also collected four composite samples (W017) from the window troughs in kitchen number 1, living room number 2, and bedroom numbers 3 and 4. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3612" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.22 Building 3614

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (D014) from the floors within Building 3614 (Unit 3614B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite samples (D015) from the window troughs in kitchen number 1 and bedroom numbers 2, 3, and 4. Sample D015 was analyzed with a lead concentration of 2,749.60 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3614" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.23 Building 3615

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (W018) from the floors within Building 3615 (Unit 3615B). The composite samples were collected from the floors in living room number 1 and bedroom numbers 3, 4, and 5. All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite samples (W019) from the window troughs in living room number 1 and bedroom numbers 3, 4, and 5. Sample W019 was analyzed with a lead concentration of 1,223.40 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3615" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.24 Building 3616

Unit 3616A. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (D018) from the floors in the kitchen number 1 and bedroom numbers 2, 3, and 4 within Building 3616 (Unit 3616A). Sample D018 was analyzed with a lead concentration of 60.3 $\mu g/ft^2$, which exceeds the DOD field guide LBP hazard criterion of 40 $\mu g/ft^2$.

IT also collected four composite wipe samples (D019) from the window troughs in kitchen number 1, and bedroom numbers 2, 3, and 4. All trough wipe sample results were below the HUD risk assessment concentration level for lead dust.

Unit 3616B. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (D016) from the floors in kitchen number 1 and bedroom numbers 2, 3, and 4. All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite samples (D017) from the window troughs in kitchen number 1, and bedroom numbers 2, 3, and 4. Sample D017 was analyzed with a lead concentration of 904.6 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3616" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.25 Building 3617

Unit 3617A. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (W020) from the floors within Building 3617 (Unit 3617A). IT also collected four composite wipe samples (W021) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

Unit 3617B. The 1994 original LBP survey detected LBP greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (W022) from the floors within Building 3617 (Unit 3617B). IT also collected four composite wipe samples (W023) from the

window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3617" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.26 Building 3618

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (D020) from the floors within Building 3618 (Unit 3618A). IT also collected four composite wipe samples (D021) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3618" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.27 Building 3619

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (W024) from the floors within Building 3619 (Unit 3619B). IT also collected four composite wipe samples (W025) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3619" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.28 Building 3620

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (D022) from the floors within Building 3620 (Unit 3620B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (D023) from the window troughs. Sample D023 was analyzed with a lead concentration of 1,456 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3620" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.29 Building 3622

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (W026) from the floors within Building 3622 (Unit 3622B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (W027) from the window troughs. Sample W027 was analyzed with a lead concentration of 1,344 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3622" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.30 Building 3624

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (D024) from the floors within Building 3624 (Unit 3624B). IT also collected four composite wipe samples (D025) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3624" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.31 Building 3626

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (W028) from the floors

within Building 3626 (Unit 3626B). IT also collected four composite wipe samples (W029) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3626" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.32 Building 3629

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls and window troughs. IT collected four composite wipe samples (D026) from the floors within Building 3629 (Unit 3629B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (D027) from the window troughs. Sample D027 was analyzed with a lead concentration of 1,878.2 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3629" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.33 Building 3632

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W030) from the floors within Building 3632 (Unit 3632B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (W031) from the window troughs. Sample W031 was analyzed with a lead concentration of 1,654.20 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3632" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.34 Building 3635

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D031) from the floors within Building 3635 (Unit 3635B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (D032) from the window troughs. Sample D032 was analyzed with a lead concentration of 1,249.30 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3635" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.35 Building 3637

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W032) from the floors within Building 3637 (Unit 3637B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (W033) from the window troughs. Sample W033 was analyzed with a lead concentration of 1,395.70 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3637" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.36 Building 3640

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D028) from the floors within Building 3640 (Unit 3640B). A field duplicate (D029FD) of sample D028 was also collected. Sample D028 was analyzed with a lead concentration of 238.8 $\mu g/ft^2$, which exceeds the DOD field guide LBP hazard criterion of 40 $\mu g/ft^2$.

IT also collected four composite wipe samples (D030) from the window troughs. Sample D030 was analyzed with a lead concentration of 1,938.5 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3640" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.37 Building 3643

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W034) from the floors within Building 3643 (Unit 3643B). IT also collected four composite wipe samples (W035) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3643" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.38 Building 3652

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D033) from the floors within Building 3652 (Unit 3652A). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (D034) from the window troughs. Sample D034 was analyzed with a lead concentration of 2,313.40 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3652" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.39 Building 3659

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W036) from the floors within Building 3659

(Unit 3659B). IT collected four composite wipe samples (W037) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3659" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.40 Building 3662

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D035) from the floors within Building 3662 (Unit 3662A). IT also collected four composite wipe samples (D036) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3662" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.41 Building 3664

Unit 3664A. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W038) from the floors within Building 3664 (Unit 3664A). IT also collected four composite wipe samples (W039) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

Unit 3664B. The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D037) from the floors within Building 3664 (Unit 3664B). IT also collected four composite wipe samples (D038) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3664" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.42 Building 3665

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W040) from the floors within Building 3665 (Unit 3665B). IT also collected four composite wipe samples (W041) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3665" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.43 Building 3668

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D041) from the floors within Building 3668 (Unit 3668 B). All floor wipe sample results were below the DOD field guide risk assessment concentration level for lead dust.

IT also collected four composite wipe samples (D042) from the window troughs. Sample D042 was analyzed with a lead concentration of 1,673.20 $\mu g/ft^2$, which exceeds the HUD LBP hazard criterion of 800 $\mu g/ft^2$.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3668" located at the end of this report. Figures showing composite sample locations are also presented in this building-specific section.

3.44 Building 3670

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W044) and a field duplicate (W046FD) from the floors within Building 3670 (Unit 3670A). IT also collected four composite wipe samples (W045) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3670" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.45 Building 3671

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D039) from the floors within Building 3671 (Unit 3671B). IT also collected four composite wipe samples (D040) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3671" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.46 Building 3672

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (W042) from the floors within Building 3672 (Unit 3672B). IT also collected four composite wipe samples (W043) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3672" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

3.47 Building 3673

The 1994 original LBP survey detected lead at concentrations greater than 1.0 $\mu g/cm^2$ in the walls. IT collected four composite wipe samples (D043) from the floors within Building 3673 (Unit 3673B). IT also collected four composite wipe samples (D044) from the window troughs. All wipe sample results were below either the HUD or DOD field guide risk assessment concentration levels for lead dust.

LBP wipe sample risk assessment analytical results are presented in the tab labeled "Building 3673" located at the end of this report. A figure showing composite sample locations is also presented in this building-specific section.

4.0 Conclusions and Recommendations

The USACE-Mobile District retained IT to perform LBP risk assessment wipe sampling for lead at multiple buildings located at FTMC in Calhoun County, Alabama. Unified Testing Services, Inc., of Birmingham, Alabama performed the LBP risk assessments. Unified Testing Services, Inc. is a licensed Alabama LBP consulting firm (ALPb-0331, issue date November 1, 2000). The LBP risk assessment wipe sampling was performed from November 6 through November 9, 2000. Schneider Laboratories, Inc. of Richmond, Virginia, analyzed the lead-wipe samples.

Wipe samples were collected from the floors and/or window troughs in 47 buildings (55 individual units) at FTMC during the risk assessment phase of this project. The standards for leaded dust clearance levels by wipe sampling are: floors - 40 $\mu g/ft^2$ (DOD field guide); window troughs – 800 $\mu g/ft^2$ (HUD guidelines). Based on these clearance levels, elevated concentrations of lead dust were detected in the following locations:

- Building 3610 (Unit 3610B) – window troughs
- Building 3614 (Unit 3614B) – window troughs
- Building 3615 (Unit 3615B) – window troughs
- Building 3616 (Unit 3616A) – floors
- Building 3616 (Unit 3616B) – window troughs
- Building 3620 (Unit 3620B) – window troughs
- Building 3622 (Unit 3622B) – window troughs
- Building 3629 (Unit 3629B) – window troughs
- Building 3632 (Unit 3632B) – window troughs
- Building 3635 (Unit 3635B) – window troughs
- Building 3637 (Unit 3637B) – window troughs
- Building 3640 (Unit 3640B) – floors and window troughs
- Building 3652 (Unit 3652A) – window troughs
- Building 3668 (Unit 3668B) – window troughs.

All other wipe sample results were below the applicable HUD or DOD field guide risk assessment concentration levels for lead dust.

The following steps may be taken to reduce the levels of leaded dust:

1. Have a State of Alabama-approved LBP contractor clean these areas. The contractor should vacuum the area using a high-efficiency particulate air vacuum, wet-clean the area with a cleaning solution and hot water, and then high-efficiency particulate air vacuum the area again.

2. Once the areas have been cleaned, have a State of Alabama-approved LBP consulting firm collect additional dust wipe samples to confirm that these areas are below clearance standards.

If the USACE anticipates any building renovations or demolition, IT recommends that any components identified as "lead containing" be removed by a licensed lead abatement contractor prior to any activities that may disturb the material and potentially create lead dust. All lead-containing interior components were found to be in good condition, which means the paint is intact with no signs of peeling or damage and should be managed in place. All lead-containing exterior components were found to be in fair or poor condition. Fair condition means the paint shows signs of wear from age, moisture or physical contact. Poor condition means the paint is delaminating or peeling.

5.0 References

IT Corporation (IT), 2001, ***Final Lead-Based Paint Surveys and Risk Assessments (Phase I), Fort McClellan, Calhoun County, Alabama***, January.

IT Corporation (IT), 2000, ***Final Installation-Wide Sampling and Analysis Plan, Fort McClellan, Calhoun County, Alabama***, March.

U.S. Army Corps of Engineers (USACE), 1994, ***Requirements for the Preparation of Sampling and Analysis Plans,*** Engineer Manual EM 200-3-3, September.

U.S. Department of Defense (DOD)/U.S. Environmental Protection Agency (EPA), 1999, ***Lead-Based Paint Guidelines for Disposal of Department of Defense Residential Real Property – A Field Guide***, Interim Final, December.

U.S. Department of Housing and Urban Development (HUD), 1995, ***Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing,*** Office of Lead Hazard Control, June.

APPENDIX A

UNIFIED TESTING SERVICES LBP CORPORATE AND INDIVIDUAL LICENSES AND SCHNEIDER LABORATORIES ACCREDITATIONS

THE ALABAMA DEPARTMENT OF PUBLIC HEALTH

LEAD CONTRACTOR CERTIFICATION PROGRAM

THIS IS TO CERTIFY THAT THE INDIVIDUAL OR FIRM NAMED HEREIN HAS COMPLETED THE REQUIREMENTS TO BE CERTIFIED AS A LEAD CONTRACTOR AND AGREES TO BE BOUND BY THE RULES AND REGULATIONS PERTAINING TO LEAD-BASED PAINT ACTIVITIES SET FORTH BY CHAPTER 420-3-27 OF THE ALABAMA ADMINISTRATIVE CODE.

ALPB-0331
Certificate No.

11/ 1/00
Issue Date

UNIFIED TESTING SERVICES, INC.
Firm Name

325 Industrial Park Drive
Street Address

Woodstock, AL 35188
City State Zip Code

Inspection/Risk Assessment
Type of Contractor

October 31, 2001
Expiration Date

State Health Officer

THIS PERMIT IS THE PROPERTY OF THE STATE OF ALABAMA AND MUST BE RETURNED UPON REQUEST

ADPH-IAQ/Pb-001B

THE ALABAMA DEPARTMENT OF PUBLIC HEALTH

LEAD CONTRACTOR CERTIFICATION PROGRAM

THIS IS TO CERTIFY THAT THE INDIVIDUAL OR FIRM NAMED HEREIN HAS COMPLETED THE REQUIREMENTS TO BE CERTIFIED AS A LEAD CONTRACTOR AND AGREES TO BE BOUND BY THE RULES AND REGULATIONS PERTAINING TO LEAD-BASED PAINT ACTIVITIES SET FORTH BY CHAPTER 420-3-27 OF THE ALABAMA ADMINISTRATIVE CODE.

ALPB-0330
Certificate No.

11/ 1/00
Issue Date

UNIFIED TESTING SERVICES, INC.
Firm Name

325 Industrial Park Drive
Street Address

Woodstock, AL 35188
City State Zip Code

Planner/Designer
Type of Contractor

October 31, 2001
Expiration Date

State Health Officer

THIS PERMIT IS THE PROPERTY OF THE STATE OF ALABAMA AND MUST BE RETURNED UPON REQUEST

ADPH-IAQ/Pb-001B

Division of Environmental and Industrial Programs

ALABMA LEAD-BASED PAINT ACTIVITIES ACCREDITATION PROGRAM

THE UNIVERSITY OF ALABAMA Safe State Environmental Programs

The University of Alabama Safe State Program

has xamined the documentation of lead-based paint training and ualifications of the person named below and confers this

Certificate of Accreditation

or the Lead-Based Paint Activities Discipline

RISK ASSESSOR

James A. Matthews

Alabama Accreditation Number

LRA1297M0674

Certificate Expiration Date

December 12, 2000

This crificate has been issued pursuant to the authority granted to
The University of Alabama Safe State Program
for te Registration and Accreditation of Lead Training Programs
nd Individuals engaged in Lead-Based Paint Activities
Alabama Administrative Code 822-X-1, July 27, 1998

William H Wa

Director, Departmerof
Environmental and IndstriaPrograms

Assistant Director
for Environmental Programs

Division of Environmental
and Industrial Programs

ALABAMA LEAD-BASED PAINT ACTIVITIES ACCREDITATION PROGRAM

THE UNIVERSITY OF ALABAMA
Safe State
Environmental Programs

The University of Alabama Safe State Program

has examined the documentation of lead-based paint training
and qualifications of the person named below and confers this

Certificate of Accreditation

for the Lead-Based Paint Activities Discipline

INSPECTOR

James Matthews

Alabama Accreditation Number

LIN1099M0674

Certificate Expiration Date

October 20, 2002

This certificate has been issued pursuant to the authority granted to
The University of Alabama Safe State Program
for the Registration and Accreditation of Lead Training Programs
and individuals engaged in Lead-Based Paint Activities
Alabama Administrative Code 822-X-1, July 27, 1998

William H Weems

Director, Department of
Environmental and Industrial Programs

Assistant Director
for Environmental Programs

The American Industrial Hygiene Association

is proud to acknowledge that

Schneider Laboratories, Inc.

Richmond, VA

has fulfilled the requirements for and has been formally recognized by AIHA and is technically competent to perform the analyses listed in the following

SCOPE OF ACCREDITATION

INDUSTRIAL HYGIENE
Originally Accredited: 12/01/87

- _X_ Metals
- _X_ Asbestos PCM
- _X_ Organic Solvents
- _X_ Silica
- _X_ Asbestos PLM
- _X_ Diffusive Samples

ENVIRONMENTAL LEAD
Originally Accredited: 05/06/94

- _X_ Paint Chips
- _X_ Dust Wipes
- _X_ Air
- _X_ Soil

ENVIRONMENTAL MICROBIOLOGY

- ___ Bacteria
- ___ Fungi

The above named laboratory agrees to perform all analyses listed above in the scope of accreditation according to applicable policy requirements and acknowledges that continued accreditation is dependent on successful participation in the appropriate proficiency testing programs. This laboratory may be contacted to verify the current scope of accreditation, proficiency testing performance and accreditation status. Accreditation by AIHA is not a guarantee of the validity of the data generated by the laboratory.

Laboratory # 100527

Certificate # 349

Accreditation Expires: 05/06/03

Colleen Becker

Colleen Becker
Chair, Analytical Accreditation Board

James R. Thornton

James R. Thornton, CIH, CSP
President, AIHA

Schneider Laboratories Incorporated
National, State and Municipal Accreditations, Certifications and Licenses

	DEPT./AGENCY/MUNICIPALITY	CERTIFICATION/LICENSE/APPROVAL	SER. # / CODE	CERTIFICATION/ID NUMBER	EXPIRES	NOTES
erican Industrial giene Association IA)		(Industrial Hygiene): Metals, Asbestos PCM, Organics Solvents, Silica, Asbestos PCM, Diffusive Samples; (Environmental Lead): Paint Chips, Dust Wipes, Air, Soil		Lab ID:100527; certificate Number 349	5/6/2003	
S. Dept. of mmerce, National litute of Standards Technology (NIST)	National Institute of Standards & Technology/National Voluntary Laboratory Accreditation Program (NIST/NVLAP)	National Voluntary Laboratory Accreditation Program (NVLAP) - Bulk Asbestos Fiber Analysis		101150-0	3/31/2001	
S. Dept. of riculture	Animal and Plant Health Inspection Service, Plant Protection Quarantine	Soil Permit		S-4871	9/30/2001	
S. Environmental tection Agency		Notification of Regulated Waste Activity (to comply with Section 3010 of the RCRA)		VAR000011429		
lifornia	Dept. of Health Services, Environmental Laboratory Accreditation Program (ELAP)	Analysis of Toxic Chemical Elements in Drinking Water, Inorganic Chemistry & Toxic Chemical Elements of Hazardous Waste, Extraction Tests of Hazardous Waste, Organic Chemistry of Hazardous Waste, Bulk Asbestos Analysis		2078	8/31/2001	
nnecticut	Dept. of Public Health	Approved Environmental Laboratory: Potable Water, Waste Water and/or Trade Waste, Soil (examination for Inorganic and Organic Chemicals); Asbestos (Air & Bulk); Examination for Lead (Paint Chips, Soil, Dust) Wipes		PH-0118	6/30/2000	
rida	The School Board of Broward County	Woman Business Enterprise		7007-2254-95(BIC)	6/28/2001	
rida	North Broward Hospital District	Woman Business Enterprise		95-8291071	6/30/2001	
nois	Office of the Secretary of State	Certificate of Authority		98445746		
nois	The Chicago Housing Authority	On Vendors' Database as a Certified WBE				
ine	Dept. of Environmental Protection	Asbestos Analytical Laboratory (Bulk)		LB-034	9/30/2000	
ine	Dept. of Environmental Protection	Asbestos Analytical Laboratory (Air)		LB-035	9/30/2000	
ryland	Dept. of Health & Mental Hygiene	On List of Approved Laboratories (Metals in Soil, Paint Chips, Dust)				
ssachusetts	Dept. of Labor & Industries	Phase Contrast Microscopy (PCM) - Air Sample; Polarized Light Microscopy (PLM) - Bulk Sample		AA 000129	9/21/2000	
ssouri	City of Saint Louis	Business License		54143663300	5/31/2000	
ssouri	Office of Administration, Division of Purchasing & Materials Management	Woman-owned Business Enterprise		W00841	9/20/2001	
w Jersey	Dept. of Environmental Protection	State Certified Environmental Laboratory, Inorganic Metals (Drinking Water & Wastewater); Lead		84001	6/30/2000	
w York	Dept. of Health, Environmental Laboratory Approval Program	Environmental Analysis/Non Potable Water	105517	11413	6/30/2000	
w York	Dept. of Health, Environmental Laboratory Approval Program	Environmental Analysis/Potable Water	105518	11413	6/30/2000	
w York	Dept. of Health, Environmental Laboratory Approval Program	Environmental Analysis/Air & Emissions	105519	11413	6/30/2000	
w York	Dept. of Health, Environmental Laboratory Approval Program	Environmental Analysis/Solid & Hazardous Waste	105520	11413	6/30/2000	
w York	State Dept. of Economic Development	Woman-owned Business Enterprise				
rth Carolina	Department of Administration, Office for Historically Underutilized Businesses	Woman-owned Business Enterprise			5/24/2001	

Schneider Laboratories Incorporated
National, State and Municipal Accreditations, Certifications and Licenses

	DEPT./AGENCY/MUNICIPALITY	CERTIFICATION/LICENSE/APPROVAL	SER. # / CODE	CERTIFICATION/ID NUMBER	EXPIRES	NOTES
th Carolina	Dept. of the Environment, Health and Natural Resources, Div. Of Water Quality, Laboratory Certification Program	Certified to perform specified environmental analyses required by EMC monitoring and reporting regulations 15 NCAC 2B.0500, 2H.0900 and 2L.0100, .0300 and 2N.0100 through .0800		593	12/31/2002	
io	Dept. of Health	Environmental Lead Laboratory		10004	5/31/2000	
nsylvania	City of Philadelphia, Dept. of Licenses & Inspections	Business Privilege License	3702	100607		
nsylvania	County of Allegheny	Woman-owned Business Enterprise		099-2806-W	12/11/2002	
ode Island & vidence Plantations	Dept. of Health	Analytical Laboratory: Metals (Potable Water, Non-potable Water, Waste Water; Asbestos (Bulk & Air)		84	6/30/2001	
ode Island & vidence Plantations	Dept. of Health, Office of Occupational & Radiological Health	Asbestos Analytical Service (Bulk & Air)		AAL-089C3	3/31/2001	
uth Carolina	Dept. of Health & Environmental Control, Environmental Laboratory Certification Program	[Certifying Authority:CA]Solid & Hazardous Waste: PCBs and Pesticides, Inorganic - Trace Metal, Inorganic Hazardous Waste		83003003	6/31/2001	
uth Carolina	Dept. of Health & Environmental Control, Environmental Laboratory Certification Program	[Certifying Authority:NY] Clean Water Act: PCBs and Pesticides, Inorganic - Trace Metal		83003002	6/30/2000	
nnessee	Dept. of Environment and Conservation, Div. of Underground Storage Tanks	On List of Tennessee UST Approved Laboratories for BTX and TPH Analyses			10/1/2000	
xas	Dept. of Health	Asbestos Laboratory (PLM)		30-0147	3/17/2001	
xas	Secretary of State	Certificate of Authority		00103750		
xas	City of San Antonio	Minority/Women Business Enterprise Certification		98-090019/WBE/DBE	9/17/2000	
rmont	Department of Health, Division of Health Protection, Environmental Health, Agency of Human Services	Certificate - Lead laboratory: Analysis for Dust, Soil and Paint Chips		LL017205	5/20/2001	
ginia	Dept. of General Services, Div. of Consolidated Laboratory Services	Certified Drinking Water Laboratory - Metals		00317	6/30/2001	
ginia	Dept. of Professional & Occupational Regulation	Asbestos Analytical Laboratory License, (PCM, PLM)		000001	8/31/2000	
ginia	Dept. of Transportation	Disadvantaged Business Enterprise for Federal Aid Projects & Woman-owned Enterprise for State Projects			8/1/2002	
ginia	Virginia Small Business Development Center	Women Business Enterprise		980776	6/1/2002	
ginia	Richmond Dept. of General Services, Minority Business Enterprise	City of Richmond's Employment Profile Requirement (Compliance)		54-1436633-030499	3/4/2000	
st Virginia	Bureau of Public Health, Office of Environmental Health Services, Radiation, Toxics & Indoor Div.	Asbestos Air & Bulk Sample Analytical Laboratory License		LT000004	7/31/2000	
vironmental rtification In ogress	Additional parameters to be added to the South Carolina Certification					

des: