NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH

September 11, 2008

MEMORANDUM THRU LT. [redacted] Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. [redacted], Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Albany National Guard Armory, Lead Sampling Survey, Albany, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 August 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On August 25, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR appeared to have undergone conversion to a training/classroom. The flooring was observed to be covered with carpet and there was a drop ceiling present completed with 2 feet by 2 feet acoustical ceiling panels. Painted brick walls were observed and there were offices constructed in the area identified as the former location of the bullet stop. There was however exposed concrete flooring and original ceiling materials observed inside the electrical room and telecom rooms inside the converted IFR. As a result of the renovated room, sampling locations were limited to exposed wall surfaces, concrete flooring and ceiling materials in the electrical room.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Lead dust samples were collected using Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 14 samples were collected from each exposed surface area of the former IFR and there were no samples collected from the wall adjacent to the former bullet stop due to the offices constructed at that location. Collected samples were submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results did not indicate the presence of lead concentrations above the IFR post cleaning standard of 200micrograms per feet squared ($\mu g/ft^2$). These sampling results indicate that any previous decontamination activities appear to be adequate to remove the lead dust from the former range at acceptable levels. It should be noted that the sampling activities were completed in a former IFR which has undergone conversion/renovation.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
AL-01	Lower Right Wall	BRL[2]
AL-02	Middle Right Wall	BRL
AL-03	Upper Right Wall	BRL
AL-04	Lower Left Wall	BRL
AL-05	Middle Left Wall	BRL
AL-06	Upper Rear Wall	BRL
AL-07	Floor, Electrical Room	BRL
AL-08	Floor, Telecom Room	BRL
AL-09	Floor Outside Former Bullet Stop	BRL
AL-10	Ceiling, Electrical Room	BRL
AL-11	Ceiling, Telecom Room	BRL
AL-12	4-Drawer Wooden File Cabinet	BRL
AL-13	4-Drawer Metal File Cabinet	BRL
AL-14	Field Blank	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. In as much as the former IFR at the Albany Armory has been converted to a training room, it appears that lead dust is not present at concentrations above the NGB standard. It should be noted that the sampling activities were limited to exposed areas observed inside the former IFR.

b. In accordance with NGB Pamphlet 420-15, continue lead testing on an annual basis to verify that lead has not migrated from the substrate. The annual sampling shall include areas of the ceiling, walls and floors. Following the annual sampling event, if lead concentrations are less than 200 $\mu g/ft^2$, the walls of the former IFR shall be coated with a lead dust encapsulant. Conventional paint can not be used as an encapsulant. It should be noted that the referenced guidance document does not address coating the ceiling. However, it appears that the presence of the drop ceiling with acoustical ceiling panels would be sufficient barrier to prevent potential lead migration and exposure.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive, Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 05, 2008

Non-Responsive

National Guard Bureau Region-South III
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Albany Armory

Order No.: 0808K23

Dear Non-Responsive

Analytical Environmental Services, Inc. received 14 samples on 8/29/2008 3:15:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Pre tial Parkway, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0808N23

Date: 8/29/08 Page 1 of 1

COMPANY: Region South IH Office	ADDRESS: 510 Plaza Dr, Suite 1530 College Park, GA 30349
PHONE: 4/559-4174	FAX: 4/559-4175
SAMPLED BY: [redacted]	SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. # of Containers
1	AL-01	8/25/08		X		WIPE	X	1' X 1' sample	1
2	AL-02			X			X		1
3	AL-03			X			X		1
4	AL-04			X			X		1
5	AL-05			X			X		1
6	AL-06			X			X		1
7	AL-07			X			X		1
8	AL-08			X			X		1
9	AL-09			X			X		1
10	AL-10			X			X		1
11	AL-11			X			X		1
12	AL-12			X			X		1
13	AL-13			X			X	1' X 1' sample	1
14	AL-14			X			X		1

RELINQUISHED BY: [redacted] DATE/TIME: 8/29/08/1500

RECEIVED BY: [redacted] DATE/TIME: 8/29/08 3:15

3:

PROJECT INFORMATION

PROJECT NAME: Albany Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: [redacted]

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 14

Turnaround Time Request

- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any)

E-mail? Y / N, Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD

OUT: VIA:

IN: VIA:

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SL = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid S = Sulfuric acid + ice S/M = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

BEST AVAILABLE COPY

Posted Record #15-0085 (GA) Released by National Guard Bureau

Page 6 of 378

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA Army Work Order Number 0808K23

Checklist completed by [redacted] 8/30/18
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

RO 8/20/18

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

Analytical Environmental Services, Inc.

Date: 9/5/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Albany Armory
Delivery Order:
PO No:

Lab Order: 0808K23
Date Received: 8/29/2008 3:15 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0808K23-001A	AL-01	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-002A	AL-02	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-003A	AL-03	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-004A	AL-04	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-005A	AL-05	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-006A	AL-06	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-007A	AL-07	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-008A	AL-08	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-009A	AL-09	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-010A	AL-10	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-011A	AL-11	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-012A	AL-12	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-013A	AL-13	BRL	µg/ft²	20	1	8/25/2008	9/4/2008	TAA
0808K23-014A	AL-14	BRL	ug, Total	20	1	8/25/2008	9/4/2008	TAA

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

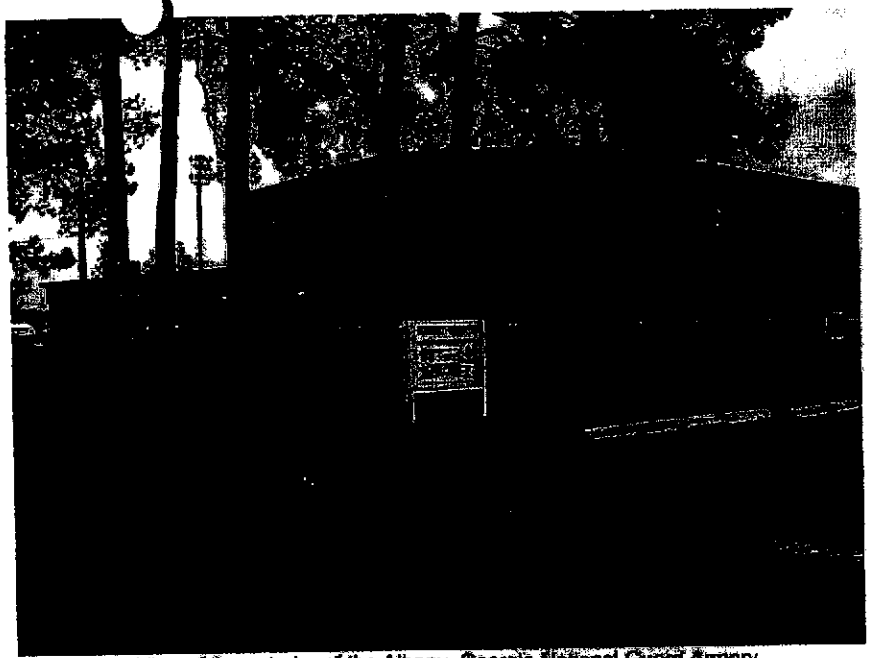


Photo 1: View of the exterior of the Albany, Georgia National Guard Armory.

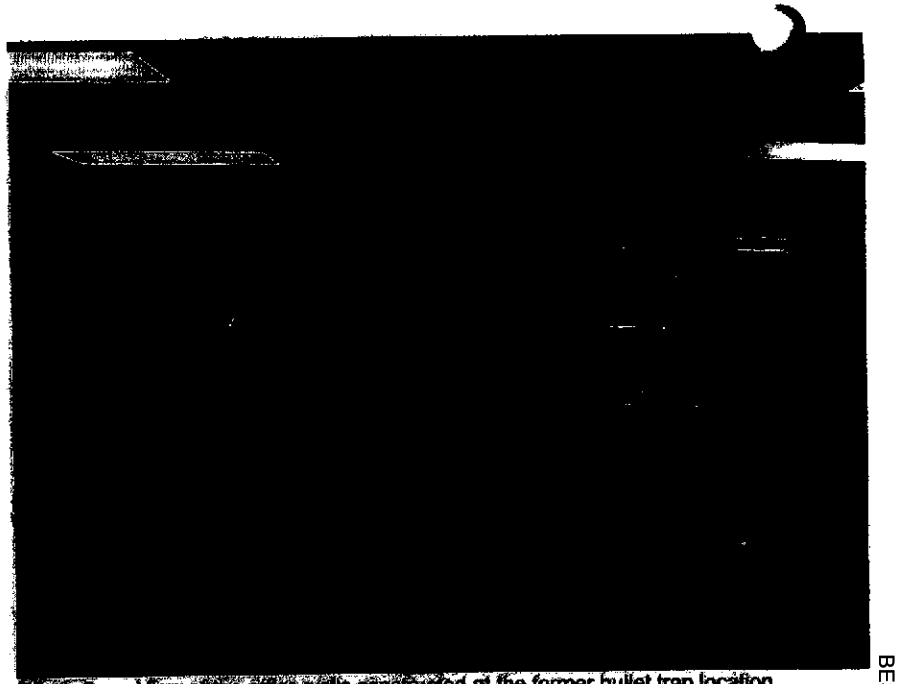


Photo 2: View of the office walls constructed at the former bullet trap location.

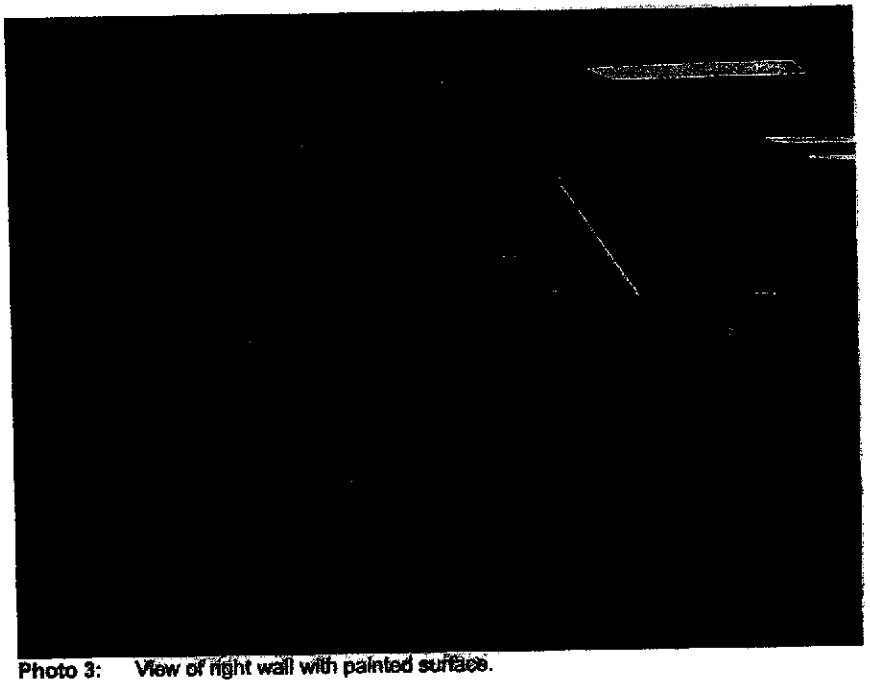


Photo 3: View of right wall with painted surface.

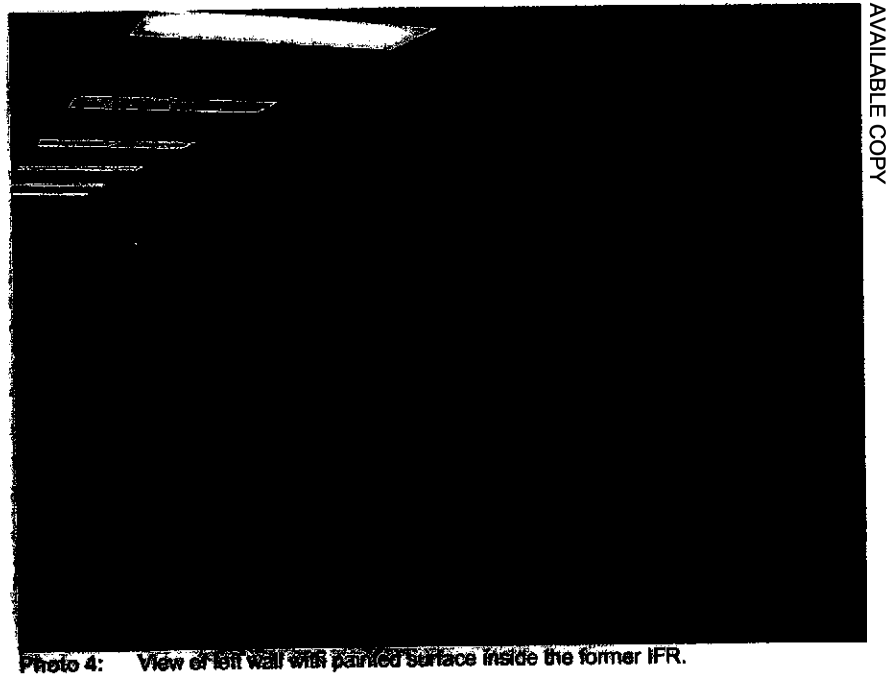


Photo 4: View of left wall with painted surface inside the former IFR.

Project Name: Albany, Georgia Armory

Date Photos Taken: 25 August 2008

Photo 5: View of the carpet covered floor of the former IFR.

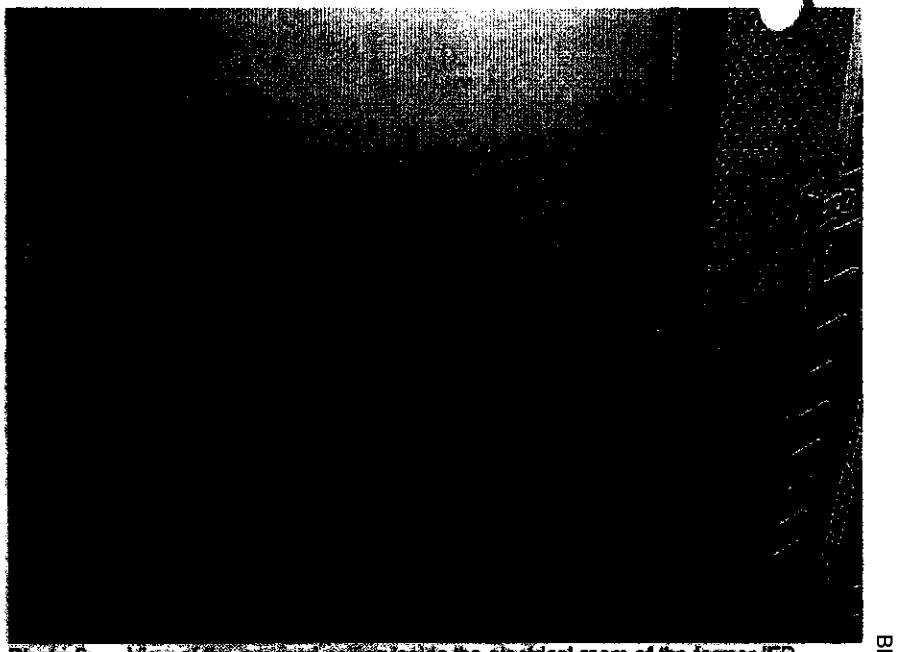


Photo 6: View of the exposed ceiling inside the electrical room of the former IFR

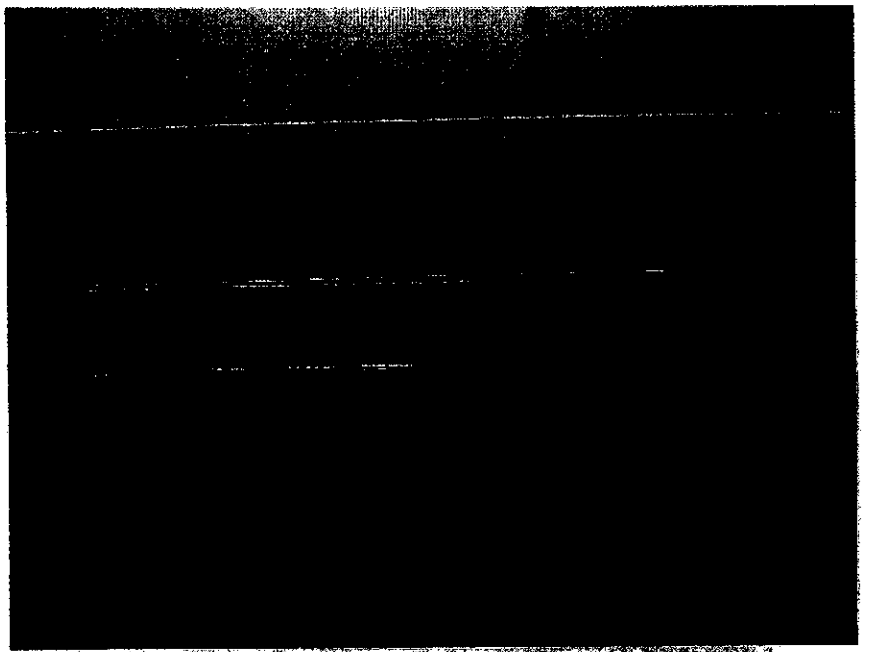


Photo 7: View of drop ceiling and acoustical panels observed in the converted classroom.

Project Name: Albany, Georgia Armory

Date Photos Taken: 25 August 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH September 11, 2008

MEMORANDUM THRU LT. Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Bainbridge National Guard Armory, Lead Sampling Survey, Bainbridge, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On August 25, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR appeared to have undergone conversion to a training/classroom. The flooring was observed to be covered with carpet and there was a drop ceiling present completed with two feet by two feet acoustical ceiling panels. The walls of the former IFR were observed to be painted sheetrock, with several offices constructed in the area identified as the former location of the bullet stop. There was however exposed concrete flooring and original ceiling materials observed inside the electrical room located at the rear of the converted IFR. As a result of the renovation, sampling locations were limited to exposed concrete floor surfaces and ceiling materials in the electrical room.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Lead dust samples were collected using Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 5 samples were collected due to the limited surface areas. Collected samples were submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results did not indicate the presence of lead concentrations above the IFR post cleaning standard of 200micrograms per feet squared ($\mu g/ft^2$). It should be noted that the sampling activities were completed in a former IFR which has undergone conversion/renovation and the floors, walls and ceiling of the former IFR were concealed with carper, sheetrock and acoustical tiles, respectively. The presence of these building

materials limited the surface sampling activities. However the materials also serve as barriers which could prevent potential exposure to lead dust via migration from the substrate.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
BA-01	Exposed Concrete Floor, Electrical Room	BRL[2]
BA-02	Exposed Concrete Floor, Telecom Room	BRL
BA-03	Exposed Ceiling, Electrical Room	27
BA-04	Exposed Ceiling, Telecom Room	BRL
BA-05	Field Blank	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. In as much as the former IFR at the Bainbridge Armory has been converted to a training/class room, it appears that exposure to lead dust would be minimized as a result of the building materials present. It should be noted that the sampling activities were limited to exposed areas observed inside the former IFR.

b. The guidance document NGB Pamphlet 420-15 recommends annual sampling to verify that lead has not migrated from the substrate. However, it appears that the presence of the carpet, sheetrock and drop ceiling with acoustical ceiling panels would be sufficient barrier to prevent potential lead migration and exposure.

c. Monitor the conditions of the building materials to ensure that these materials remain free of damage and if these materials become damaged, perform repairs as soon as reasonably possible to prevent potential exposure to lead dust.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 04, 2008

Non-Responsive

National Guard Bureau Region-South III
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Bainbridge Armory

Dear Non-Responsive

Order No.: 0809005

Analytical Environmental Services, Inc. received 5 samples on 8/29/2008 3:15:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770)457-8177 • FAX: (770)457-8188

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presi[illegible]al Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: [illegible]9005

Date: 8/29/08 Page 1 of 1

COMPANY: Region South Field office
ADDRESS: 510 Plaza Dr., Ste 1530 College Park, GA 30141
PHONE: 4/559-4174
FAX: 4/559-4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No. # of Containers
1	Ba - 01	8/25/08		X			X	1'X1' Sample	1
2	Ba - 02	"		X			X	" "	1
3	Ba - 03	"		X			X	" "	1
4	Ba - 04	"		X			X	" "	1
5	Ba - 05	"		X			X		1
6									
7									
8									
9									
10									
11									
12									
13									
14									

PRESERVATION (See codes)

RELINQUISHED BY: [redacted] DATE/TIME: 8/29/08/ 1500
RECEIVED BY: [redacted] DATE/TIME: 8/29/08 3:15

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT VIA
IN VIA
CLIENT (circled) FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Bainbridge Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 5

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):
E-mail? Y N; Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

BEST AVAILABLE COPY

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client G.A. Army Work Order Number 0809025

Checklist completed by [redacted] 9/2/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? ~~(4°C±2)*~~ 9/2/08 D.K.	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓	No __	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes ✓	No __	
Proceed with Standard TAT as per project history?	Yes __	No __	Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __	No __
Water - pH acceptable upon receipt?	Yes __	No __	Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

M:\Quality Assurance\Checklists\Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample Cooler Receipt Checklist

Analytical Environmental Services, Inc.

Date: 9/4/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Bainbridge Armory
Delivery Order:
PO No:

Lab Order: 0809005
Date Received: 8/29/2008 3:15 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0809005-001A	BA-01	BRL	µg/ft²	20	1	8/25/2008	9/3/2008	TAA
0809005-002A	BA-02	BRL	µg/ft²	20	1	8/25/2008	9/3/2008	TAA
0809005-003A	BA-03	27	µg/ft²	20	1	8/25/2008	9/3/2008	TAA
0809005-004A	BA-04	BRL	µg/ft²	20	1	8/25/2008	9/3/2008	TAA
0809005-005A	BA-05	BRL	ug, Total	20	1	8/25/2008	9/3/2008	TAA

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

Photo 1: View of the exterior of the Bainbridge, Georgia National Guard Armory.

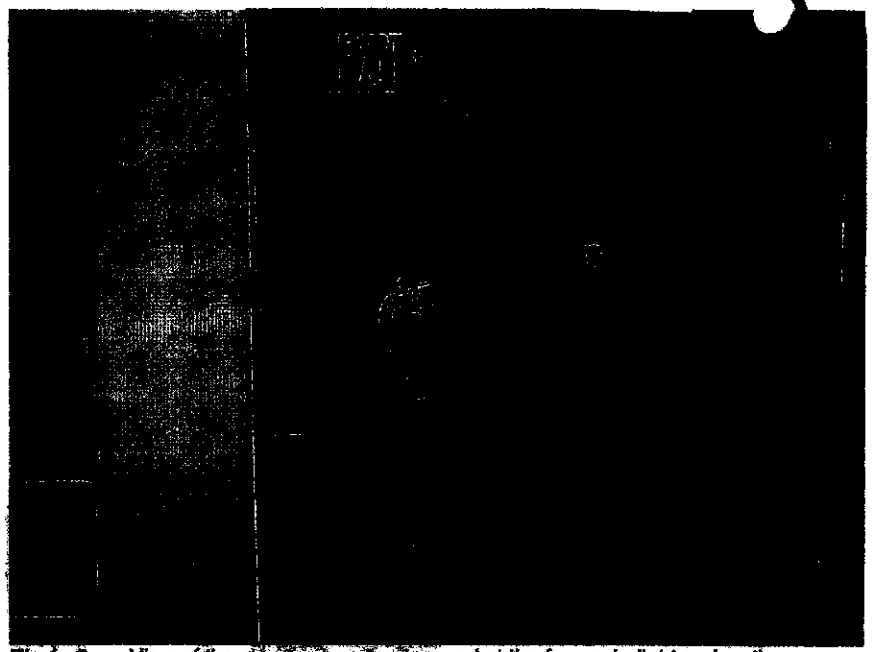


Photo 2: View of the sheetrock walls observed at the former bullet trap location.

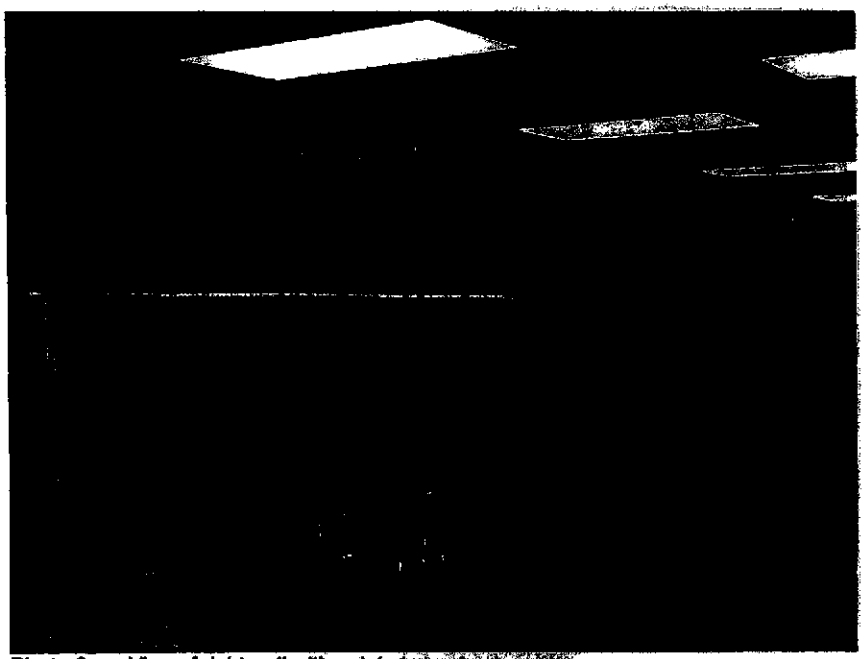


Photo 3: View of right wall with painted sheetrock surface.

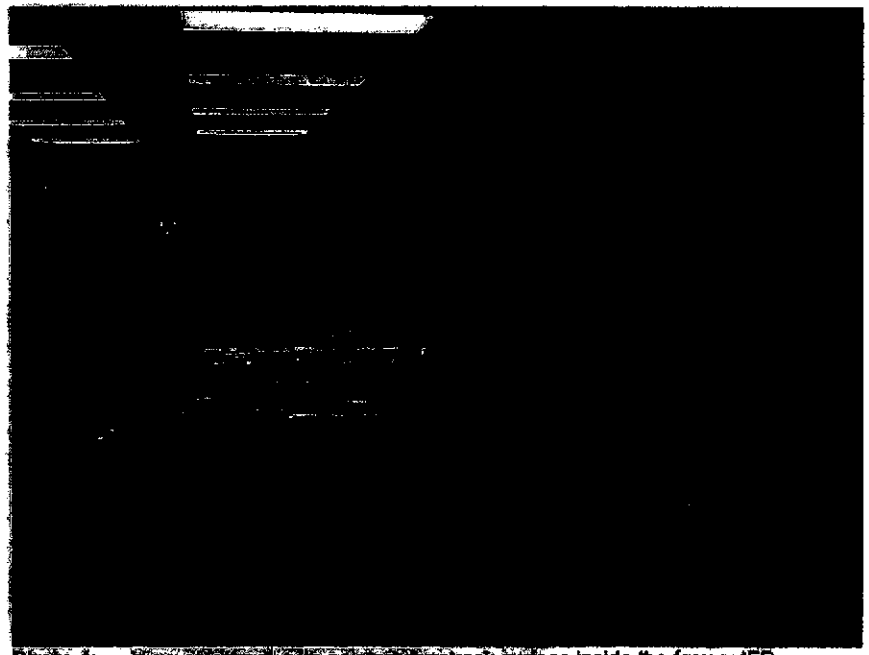


Photo 4: View of left wall with painted sheetrock surface inside the former IFR.

Project Name: Bainbridge, Georgia Armory

Date Photos Taken: 25 August 2008

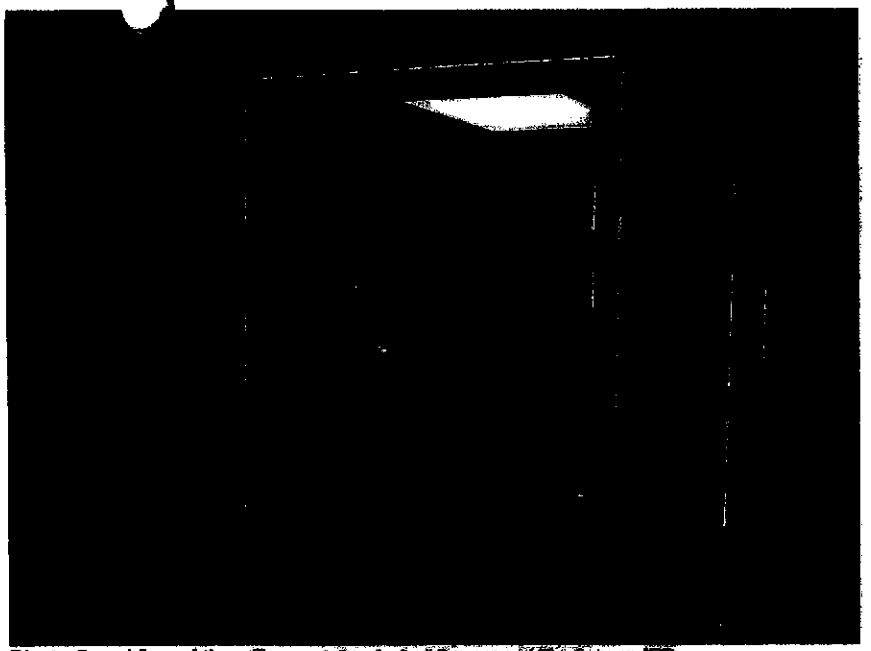


Photo 5: View of the office constructed at the rear of the former IFR.

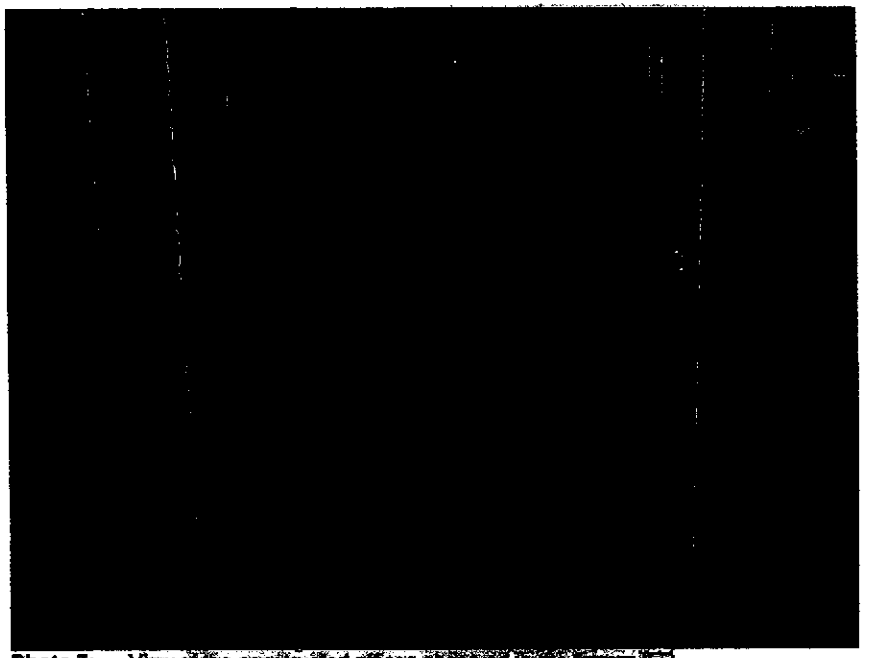


Photo 7: View of the constructed offices observed in the former IFR.

Photo 6: View of the exposed concrete floor inside the electrical room of the former IFR.

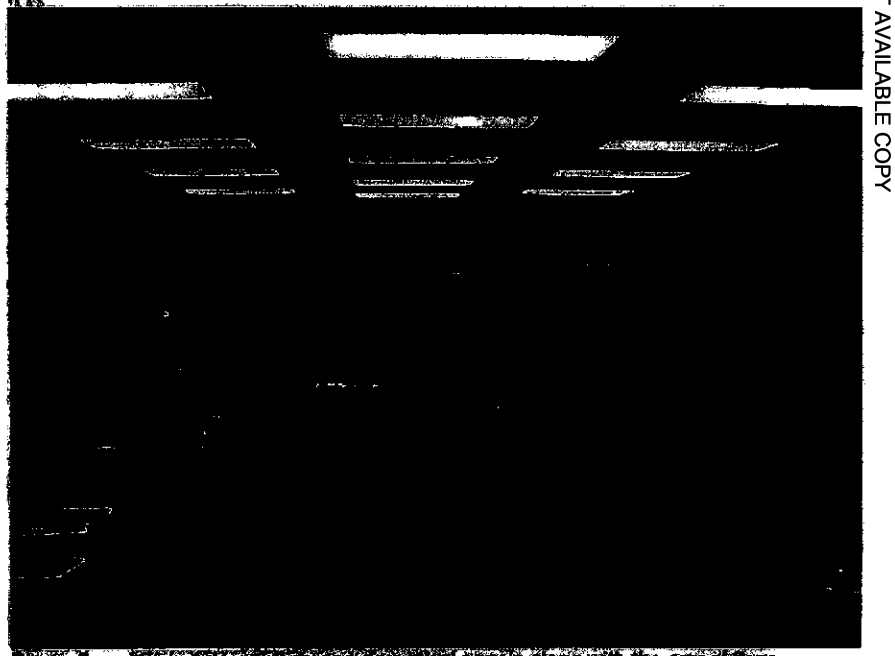


Photo 8: View of drop ceiling and acoustical panels along with the carpet floor observed in the converted classroom.

Project Name: Bainbridge, Georgia Armory

Date Photos Taken: 25 August 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SI

December 19, 2003

MEMORANDUM FOR THE Georgia Army National Guard, ATTN: LTC Non-Responsive Safety and Occupational Health Manager, P.O. 5019 Highway 42, Ellenwood, GA 30294.

SUBJECT: Industrial Hygiene Asbestos and Lead sampling of the Barnesville National Guard Armory which is currently being used as the Lamar County Activity Center, Inc.

1. References.

a. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 2001 rev.

b. AR 40-5, Preventive Medicine, 15 October 1990.

c. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

d. AR 385-10, 29 February 2000, Army Safety Program.

e. Department of the Army Pamphlet (DA PAM) 40-501, 10 December 1998, Hearing Conservation.

f. TB MED 503, The Army Industrial Hygiene Program.

g. Title 29 Code of Federal regulation (CFR), 2001 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

h. Industrial Ventilation, 23rd, 1998, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29 Code of Federal regulation (CFR), Part 1910.1025 Lead

j. Title 29 Code of Federal regulation (CFR), Part 1910.1001 Asbestos

k. DA PAM 385.15, "Policy, Responsibility and Guidelines for Housekeeping, Rehabilitation and/or conversion of Indoor Firing Ranges."

l. DA PAM 385.16, Guidelines for converting Indoor Firing Ranges to other uses.

2. General.

a. At the request of Ms. [redacted] of the Georgia Safety and Occupational Health Office, an Industrial Hygiene baseline survey was conducted at the Lamar County Activity Center, Inc, which was formally a National Guard Armory.

b. The major concern was the possibility of asbestos and lead exposure to children. The Lamar County Activity Center provides the community with after school youth educational and entertainment activities. The activity center was also in the process of opening a day care center.

c. The survey and sampling was conducted by Mr [redacted] Ms. [redacted] SGT [redacted] and Mr [redacted] of the Region South Industrial Hygiene Office.

3. Findings. The following are sample results taken:

September 24, 2003 Sample

Sample MKF-5000 ceiling insulation sampled for possible Asbestos	none detected

September 30, 2003 Samples

Asbestos Air/bulk samples

Sample 5010	taken in the Gym at the following locations- bleacher	0.002 f/cc
Sample 5012	taken in the Gym at the following locations- exercise area	0.003 f/cc
Sample 5014	taken in the Gym at the following locations- Table	0.000 f/cc
Sample 5017	taken in the Gym at the following locations- Pool Table	0.001 f/cc
Sample 5018	taken in the Gym at the following locations- Backroom	0.002 f/cc
Sample 5019	taken in the Gym at the following locations- Gym Floor	0.002 f/cc
Sample 5040	Auditorium broken floor tile next to kitchen door	none detected
Sample 5037	Bldg B unrenovated classroom ceiling tile	none detected
Sample 5035	Bldg B unrenovated classroom floor tile/mastic	5% chrysotile
Sample 5036	Bldg B unrenovated classroom floor tile/mastic	5% chrysotile

Lead soil and swipe samples

Sample MKF 5033	Soil from NE corner of playground	954 ppm
Sample MKF 5030	swipe taken from large toy slide in playground	BRL
Sample MKF 5031	swipe taken from small toy slide in playground	BRL
Sample MKF 5038	Bldg B unrenovated hallway wall peeling paint	BRL

Renovated classroom/hallway area Lead swipe samples

Sample CR0201	top of cabinet in back of classroom near window	BRL
Sample CR0202	top of cabinet in front of classroom near door	32 micrograms/sq ft
Sample CR0301	top of cabinet in back of classroom	48 micrograms/sq ft
Sample CR0302	top of cabinet in front of classroom near door	32 micrograms/sq ft
Sample CR0B01	top of cabinet in front of classroom near door	33 micrograms/sq ft
Sample CR0B02	top of cabinet in back of classroom	25 micrograms/sq ft
Sample HW001	Hallway floor in front of double doors leading to classroom	BRL
Sample HW002	Hallway floor across from #4 classroom A under fuse box	BRL
Sample HW003	Hallway floor directly outside of Janitor's closet	BRL

Gym area/Bldg B classroom Lead swipe samples

Sample Gym01	window sill at top of bleaches at center court	198 micrograms/sq ft
Sample Gym02	5th step of bleachers near back left exit of gym	BRL
Sample Gym03	top of table to the right of main entrance	BRL
Sample Gym04	bottom shelf of ball storage to the right of main entrance	BRL
Sample Gym05	floor in middle of exercise equipment	BRL
Sample Gym06	floor center court of basketball court	BRL
Sample 20	inside cabinet	BRL
Sample 21	middle of 1st window near vent system	BRL
Sample 22	inside door, 3 & 4 year old room	BRL
Sample 24	green blackboard 3 & 4 year old room	BRL
Sample 25	top of brow cabinet class room #4, 6 & 7 grade room	BRL
Sample 26	top of bookshelf, back of room, 6 & 7 grade room	BRL
Sample 27	top of room cabinet, front of room, infants & toddlers	BRL
Sample 28	top of cabinet in back corner of infant & toddlers room	BRL

Auditorium area Lead swipe samples

Sample ACS01	auditorium center back of stage	BRL
Sample ACS02	top left of piano	BRL

Learning Center area Lead swipe samples

Sample LC001	top of coffee table in learning center	BRL
Sample LC002	top of locker in back room	136 total micrograms

Thrift store area Lead swipe samples

Sample TS001	front wall of former arms room	BRL
Sample TS002	lower right wall of former arms room	BRL
Sample TS003	rear wall of former arms room	BRL
Sample TS004	back left corner floor of former arms room	BRL
Sample TS005	front right corner floor under desk of former arms room	BRL
Sample TS006	floor outside door of former arms room	BRL
Sample TS007	arms room door, top of key box	BRL

Lead air samples

Sample MKF5004	The following Lead air samples were taken	<0.200
Sample MKF5005	throughout the day care classrooms	<0.200
Sample MKF5002		<0.200
Sample MKF5001		<0.200
Sample MKF5003		<0.200
Blank 002		<0.200
Sample MKF5000		<0.200
Sample MKF5006		<0.200
Sample MKF5009		<0.200
Sample MKF5007		<0.200
Sample MKF5008		<0.200
Blank 001		<0.200
Sample MKF5015		<0.200
Sample MKF5013		<0.200
Sample MKF5016		<0.200

Sample MKF5011	<0.200
Blank 003	<0.200

Gym Bulk Lead Samples

Sample DH01	taken in hallway before shower	0.222%
Sample DH02	taken on side wall in back of Gym	0.110%
Sample DH03	taken on pool table and floor	unknown result
Sample DH04	taken in high school classroom	BRL
Sample DH05	taken on blue bleaches in Gym	0.132%
Sample DH06	taken form window sill	0.009%
Sample DH07	taken off the floor	BRL

October 16, 2003 Samples

Playground soil samples

Sample MKF6000- NE side of playground near bldg A	13.9 ppm
Sample MKF6001- SE side of playground near bldg B	13.2 ppm
Sample MKF6002- Center of playground	11.0 ppm
Sample MKF6003- NW corner of playground near bldg A	15.4 ppm
Sample MKF6004- SW corner of playground near bldg B	9.89 ppm
Sample MKF6005- outside of playground, left of door and bldg B	9.74 ppm

Bulk Lead Samples

Sample MKF6006 paint chip unrenovated side Bldg B, off electrical panel wall	0.0357%
Sample MKF6007 paint chip unrenovated side Bldg B, classroom door	0.839%

After school/Day care area lead swipe samples

Sample 6001	3rd window from right, window sill right corner	BRL
Sample 6002	last window from right corner of sill	BRL
Sample 6003	1st window from right, middle of window sill	BRL
Sample 6004	5th window from right, right side of sill	BRL
Sample 6005	2nd window from right, right side of sill	BRL
Sample 6006	last window from right, right side of sill	BRL
Sample 6007	2nd vent facing door right side of room	BRL
Sample 6008	2nd window from right, left side of sill	BRL
Sample 6009	5th window from right, middle of sill	20 micrograms/sq ft
Sample 6010	2nd window from right, left side of sill	BRL
Sample 6011	5th window from right, middle of sill	BRL
Sample 6012	3rd window from right, middle of sill	BRL
Sample 6013	last window from right, sill behind sink	BRL
Sample 6014	2nd visible window from right, right corner of sill	33 micrograms/sq ft
Sample 6015	4th visible window from right, middle of sill	BRL

4. Discussion. The Barnesville Armory and surrounding campus was originally opened in the mid 1950's as a six building middle/high school. In 1971 the school was turned into an elementary school. In and around 1989 the National Guard acquired the school and surrounding grounds. The National Guard maintained procession of the campus until 2001 when the Lamar County Activity Center took over the campus.
The Lamar County Activity Center use half of building B as classrooms and a soon to open daycare. The half being used has been renovated with the un renovated half

separated by a wall. Building D is the current Administration area and a Thrift Store. While being used by the National Guard, building D contained an arms room. Building E is being used as an Auditorium, Kitchen and a learning center. There are storage areas in building E where items left by the guard are held.
It was explained that building A has not been used by the Lamar County Activity Center and it was indicated that the Guard did not use building A either. Building C is currently used by the Department of Natural Resources and is off limits to staff and all children. There is a Gymnasium on the campus that is kept locked. (See enclosure 1.)

Asbestos and specifically lead sampling was conducted in the buildings because of the possible hazard to children who are now occupying some of the buildings.

5. Conclusion. All collected industrial Hygiene Lead and Asbestos samples revealed no over exposures to the children of the Lamar County Activity Center. Asbestos levels exceeding the permissible exposure limit were found in the floor tile/mastic in the un renovated section of building B. Lead levels were very close to being over the permissible exposure limit at a window sill in the Gymnasium. One soil sample collected 30 September 2003 for lead in the NE corner of the playground dictate that further soil samples be taken to ensure correct results as dictated by proper sampling protocol.

5. Recommendations.

a. Prohibit entrance to un renovated section of building B, all of building A and the gymnasium until buildings are properly cleaned and renovated ensuring that all asbestos and lead has been removed.

b. Continue to keep building C off limits to the Lamar County Activity Staff and children until it can be determined what the Department of Natural Resources are going to do with the building.

c. Clean and dispose of a locker in the back room of the learning center that had lead levels approaching the permissible exposure limit for lead. See sample LC001 in report.

d. Conduct a thorough safety inspection of the facilities and remove all asbestos and lead from un renovated buildings prior to releasing them to the Lamar County Activity Center.

6. If additional information is needed about the contractors report, please contact Non-Responsive Regional Industrial Hygienist, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

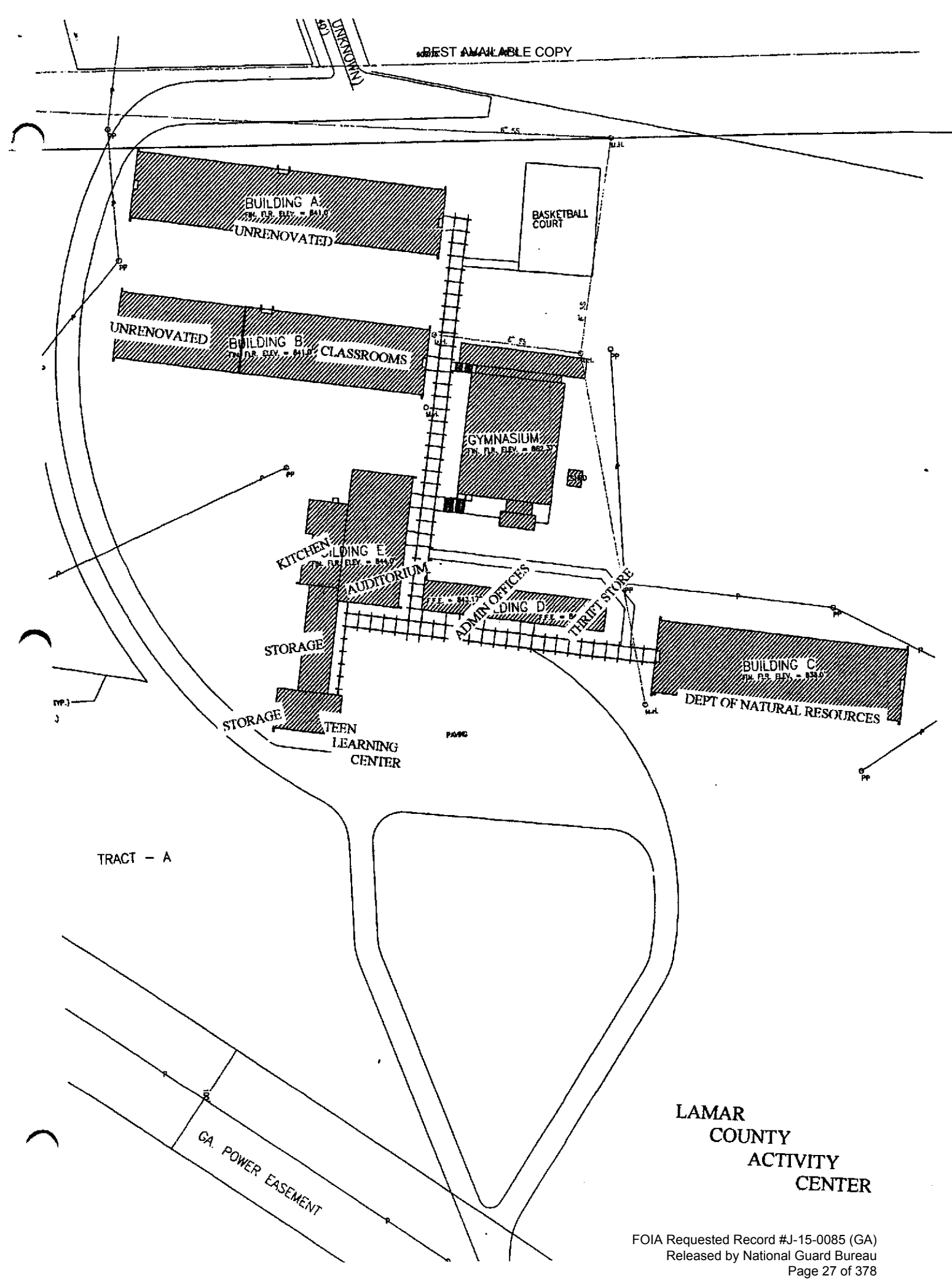
Regional Industrial Hygienist

CF: NBG-AVN-SH

1 ENCL

CF: State Safety Office, GA, ATTN: Mrs. Non-Responsive Occupational Health Manager, 5019 Highway 42, Ellenwood, GA 30294.

Lamar County Activity Center, ATTN: Ms. Non-Responsive 408 Highway 41 South, Barnesville, GA 30204
Georgia ANG Facility Management Office, ATTN: LTC Non-Responsive P.O.BOX 17965, Atlanta, GA 31316-0965



BLDG B

ACTIVITY CENTER DAYCARE FLOOR PLAN & LEGEND

= Walkway to/from Office
= DayCare Rooms
= Summer Camp Rooms
= Fire Escape Windows
= Closets/Shelves
= Water heater
= Water Fountain
= Washer & Dryer Room
= Toilets
= Heating & A/C Unit
= Wall w/gate 5' x 16'5"
= Locked storage room

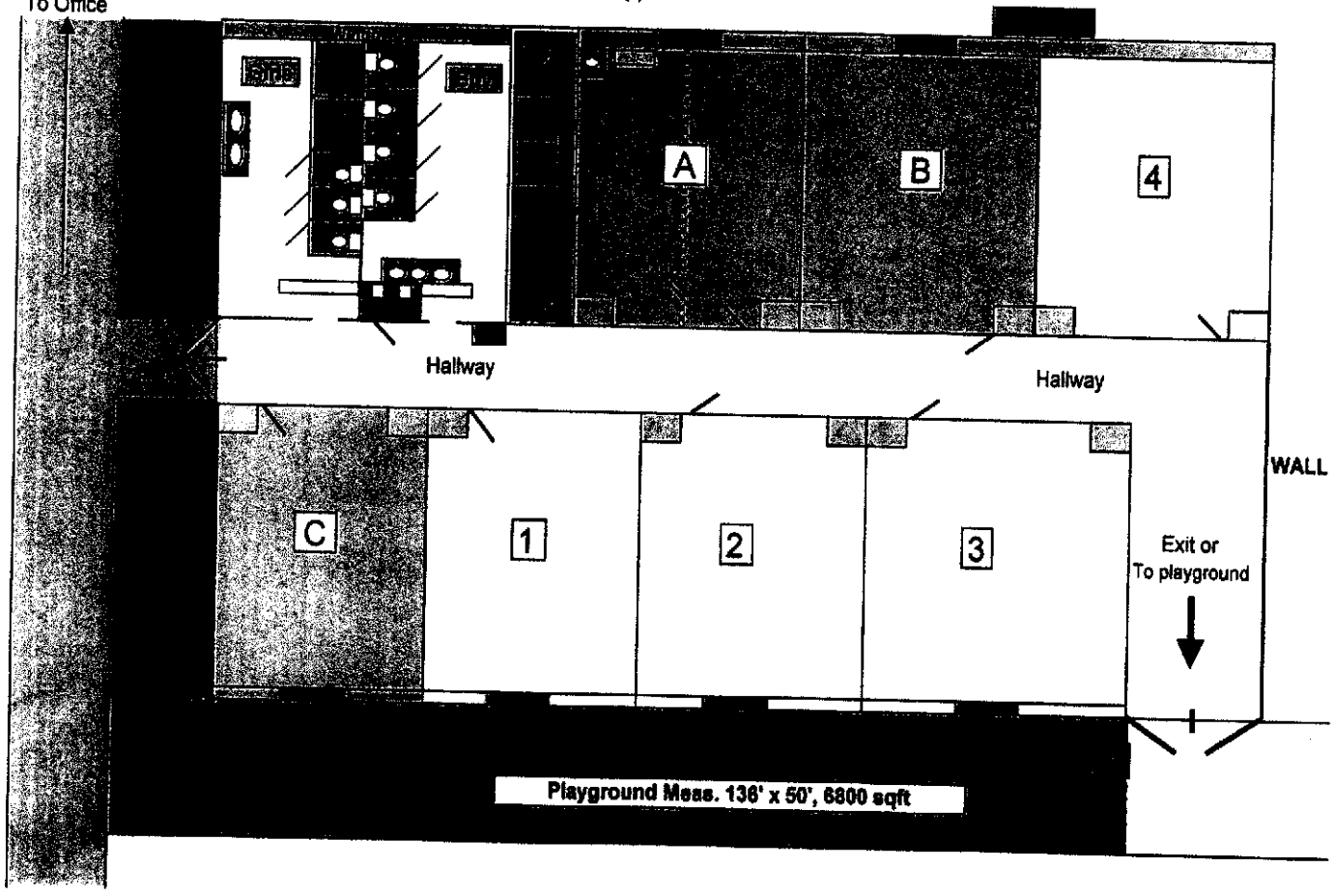
= Showers
= Grass
= Sinks
= Diaper Changing Station

Day Care Rooms

A = (18 children) 6 wks to 23 mos. Rm Meas. = 31'4" x 22', Under Window 31'4 x 3' or 690 sq ft
B = (19 children) 24 to 35 mos. Rm Meas. = 31'4" x 22', Under Window 31'4" x 3' or 690 sq ft
C = (19 children) 3 & 4 yrs olds, Rm Meas. = 31'6" x 22', Under Window 31'6" x 3' or 697 sq ft

Summer Camp/After School Rooms

1 = Classroom (Pre-K to 1st Grade) Locked
2 = Classroom (2nd & 3rd Grade) Locked
3 = Classroom (4th & 5th Grade) Locked
4 = Classroom (6th Grade & Up) Locked



HEADQUARTERS
DEPARTMENTS OF THE ARMY AND THE AIR FORCE
Washington, DC 20310-2500
31 January 1994

NG PAM (AR) 385-16/
ANGPAM 91-101

Safety

GUIDELINES FOR CONVERTING INDOOR FIRING RANGES TO OTHER USES

Summary. This is a new pamphlet. This guidance prescribes policy, responsibilities, and procedures on how to convert lead-contaminated indoor firing ranges to other uses.

Applicability. This guidance applies to all persons responsible for the operation of Army National Guard (ARNG) and Air National Guard (ANG) indoor firing ranges. As no regulation/guidance can foresee all situations that might arise, the following is written in a broad scope and is intended to be interpreted as to the INTENT of the law by health professionals.

Supplementation. Supplementation of this guidance is prohibited without prior approval from Chief, National Guard Bureau (NGB-AVN-SI).

Impact on New Manning System. This guidance does not contain information that affects the New Manning System.

Interim changes. Interim changes are not official unless they are authenticated by the Chief, Administrative Services. Users will destroy interim changes on their expiration date unless sooner superseded or rescinded.

Suggested Improvements. The proponent of this publication is the National Guard Bureau. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Chief, National Guard Bureau, **Attn:** NGB-AVN-SI, 111 South George Mason Drive, Arlington, VA 22204-1382.

Distribution. Distribution of this publication is made in accordance with the requirements on DA Form 12-09-E.

CONTENTS *(Listed by paragraph numbers)*

1. Purpose

This pamphlet establishes policy and procedures for converting indoor firing ranges to other uses.

2. References

Related publications are listed below.

a. DODI 6055.1 (Department of Defense Occupational Safety and Health (OSH) Program).

b. AR 11-34 (The Army Respiratory Protection Program).

c. AR 40-5 (Preventive Medicine).

d. NGR (AR) 385-15 (Policy, Responsibilities, and Procedures for Inspection/Evaluation and Use of ARNG Indoor Firing Ranges).

e. TB MED 502 (Occupational and Environmental Health Repiratory Protection Program).

f. USAEHA TG 141 (Industrial Hygiene Air Sampling and Bulk Sampling Instructions).

g. Title 29, Code of Federal Regulations (CFR) revision, Part 1910 (Occupational Safety and Health Standards).

h. Federal Register, 18 April 1990, Vol 55, No. 75 (Department of Housing and Urban Development, Lead-Based Paint: Interim Guidelines for Hazard Identification and Abatement in Public and Indian Housing, as amended, September 1990, Office of Public and Indian Housing, Department of Housing and Urban Development, 451 Seventh Street, SW, Washington, DC 20410).

I. OSHA Technical Manual, Vol VI

j. DHEW NIOSH 76-130 (Lead Exposure and Design Considerations for Indoor Firing Ranges).

3. Explanation of abbreviations and terms
Abbreviations and special terms used in this publication are listed in the **glossary.**

4. Policy and procedures
a. Conversion of Ranges. If a State wishes to convert an indoor firing range to another functional area, such as a storage area, kitchen, or office space, the following guidance must be adhered to--

b. No Equipment/Items Stored in Range. Wipe samples must be collected and analyzed prior to and after cleaning. Pre- and post-cleaning wipe sample results will be compared to ensure that a minimum 75 percent reduction in surface lead dust is achieved or sample results are 200 ug/sq ft or below which ever is less. The amount and location of wipe samples to be collected are provided in **appendix A.** Interpretation of sample results are contained in **appendices B** and **C.** Occupational Safety and Health Administration (OSHA) Instruction CPL 2-2.20B **(app D)** provides the necessary guidance on the technique needed to collect wipe samples.

c. Equipment/Items Stored in Range. In addition to the samples that must be collected in the above paragraph, samples must also be collected from equipment/items stored in the range. Sample selection is important. The number of items stored and length of storage differs from range to range. The decision on how many samples to collect will be determined by the individual collecting the samples. The more samples collected, the better the statistical comparison of the results. Samples must be collected from equipment/items with as smooth a surface as possible. Sample results collected from a rough surface would be inaccurate due to the minimal surface contact of the media. Also, the likelihood of tearing the media filter exists. Samples should also be collected on items which have been stored the longest and have not been disturbed. Items stored closest to the bullet trap and firing line are more likely to have higher concentrations of lead dust. Interpretations of sample results are contained in **appendices B** and **C.**

5. Goal
The ultimate goal of each State is to ensure every indoor firing range is as free of lead dust as possible before the area is used for other purposes. This can be accomplished if the following guidance is utilized.

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

7. Wipe Sample Media
a. OSHA Instruction CPL 2-2.20B **(app D)** provides the necessary guidance on the technique needed to collect wipe samples. Only distilled or deionized water will be used to saturate sample media. At least one field blank filter must be submitted with each sample sheet. The field blank must be from the same lot and labeled as a blank on the sample sheet. **Appendix E** identifies how to obtain and where to purchase sample media. Use the following guidance for determining media acceptability.

(1) Acceptable Media consists of--

(a) Thirty-seven (37) millimeter (mm) cellulose ester (CE) filters, with or without the cassette.

(b) Eleven (11) centimeter (cm) diameter Whatman #40 paper.

(c) Whatman smear tabs.

(2) Unacceptable Media consists of but is not limited to--

(a) Cotton balls.

(b) Baby wipes or wet wipes.

b. Documentation of Sample Collection. An AEHA Form 8-R (Bulk Sample Data) must be completed and submitted with samples to your supporting laboratory. A copy of this form is located in **appendix F.** Instructions on completing this form are in **appendix G.** Each sample must be individually marked. If CE filters with cassettes are used; write the sample number on a label and place the label on the outside of the cassette. Whatman paper, smear tabs, or CE filters without the cassette should be placed in a ziplock plastic bag or sterile glass container. Acid must be added to the samples and a glass container would assist the laboratory in analysis. If samples are placed in glass containers, ensure they are properly packed before shipment. A label with the sample number should be placed on the outside of the bag. In addition, a floor plan must be completed of each range which documents the locations of each sample collection point. Current blueprints may be used for this purpose. **DO NOT** repeat sample numbers; this may cause confusion when sample results are returned. Samples can be sent to USAEHA laboratories for analysis. See **appendix I** for the laboratory which serves your region.

8. Wipe Sampling Protocol
See appendix A.

9. Range Cleaning Instructions
Before a State begins decontaminating their ranges, they must ensure that procedures comply with all federal, state and local regulations. The range ventilation system will be in operation during all cleaning procedures to ensure a negative pressure environment is maintained. In the absence of a mechanical system, all doors and windows will be sealed to eliminate fugitive emissions. A HEPA filtered vacuum system is the preferred method of cleanup followed by wet wiping of the range. The HEPA vacuum is designed to collect loose surface lead dust particles. A cleaning solution containing Tri-Sodium Phosphate (TSP) should be added to all water containers. At least one ounce of five (5) percent TSP should be added to each gallon of HOT water. Mix new solutions of TSP frequently. Wet wiping will require dual containers of water; one container for wetting the applicator (mops, rags, sponge, etc.) and the other container is for rinsing the applicator after the dust has been wiped from surfaces. Waste water placed into containers can be left to evaporate. **PROPERLY DISPOSE OF ALL HAZARDOUS WASTE AND DO NOT PLACE ANY LEAD CONTAMINATED WASTE INTO THE SEWER SYSTEM OR ONTO THE GROUND.** Mop heads, sponges and rags will be discarded as hazardous waste following cleanup. Wet cleaning by a high pressure system is prohibited, as this method may embed the lead into the substratum and generate large quantities of unwanted hazardous waste. Dry sweeping may not be used. All surface areas of the range must be cleaned. If a surface area of the range is painted or coated with a sealant which is smooth, there is no need to paint over or remove this coated surface material. Wood floors should receive a coat of deck enamel or urethane, concrete floors should be sealed with deck enamel and linoleum or tile floors should be waxed. A progression of cleaning from top to bottom, and from behind the steel backstop to the firing line should be used. After removing the sand, if applicable, and the steel backstop, areas in front of and behind the bullet trap along with the steel backstop plate(s) should be cleaned. Next, clean the ceiling, lights, baffles, retrieval system, heating system(s), and ventilation duct(s). Acoustical material should be vacuumed and removed rather than painted over. A Toxic Characteristic Leaching Procedure (TCLP) test for lead only may need to be performed on the acoustical material. A TCLP test will determine if the material is classified as "hazardous" and can be disposed of in a sanitary landfill. Contact your environmental office for assistance before arranging for this laboratory testing. The floor should be the last surface cleaned, starting at the bullet trap and ending behind the firing line. Following the wet wiping of all surfaces, the area should be permitted to dry and a second HEPA vacuuming of all surface area should take place until no dust or residue can be seen. A thorough visual inspection to detect surface dust should be made following cleanup and prior to resampling. As a variety of conditions exist in ranges, unique situations may arise and specific written guidance from your Regional Industrial Hygiene Office may be required.

10. Cleaning Stored Contaminated Equipment
If stored equipment is confirmed as being contaminated (sample result is higher than the 200 microgram/sq ft) with lead dust, it must be decontaminated before removing from the range. The stored equipment located next to the bullet trap and firing line should be cleaned first and removed. Depending on the size or material of the item, either HEPA vacuum or wet wipe will be used. Refer to paragraph 15 for additional guidance. Every attempt should be made to clean and reclaim the item since disposing of equipment as hazardous waste is costly and wasteful. Only as a last resort will the item be discarded as hazardous waste. Porous items, i.e., canvas tents can be laundered at local companies which specialize in industrial laundry services. Items, such as office partitions and carpet, that were present during firing should be considered grossly contaminated and be discarded unless analysis proves otherwise. Consult your environmental office before removing or disposing of items.

11. Contaminated Sand and Lead Waste
Consult your State's environmental office for specific disposal guidance to comply with local laws on this matter.

12. Medical Surveillance
a. A preplacement medical examination is required of all individuals involved with range cleanup operations. Consult 29 CFR 1910.1025 for additional information on medical surveillance requirements. A medical examination must include - -

(1) A detailed work and medical history.
(2) A thorough physical examination.
(3) A respirator use evaluation.
(4) A blood pressure measurement.
(5) Blood sample analysis to include:
  (a) A baseline blood lead level.
  (b) A complete blood count (CBC).
  (c) Blood urea nitrogen (BUN).
  (d) Serum creatinine.
  (e) Zinc protoporphyrin.
(6) A routine urine analysis.
(7) Recordkeeping.

b. Air Monitoring. Worker-breathing-zone air samples must be collected to ensure personnel are not overexposed to airborne lead during the cleanup phase. Daily air samples will be collected on all personnel involved in the cleanup operation. These exposure levels will be used to evaluate work practices and personal protective equipment. Within five (5) working days after receipt of monitoring results, each employee will be notified in writing of the results which represent that employee's exposure. Refer to USAEHA Technical Guide 141 (app A-6) for air sampling instructions and a blank air sample data form. Contact your Regional Industrial Hygiene Office for assistance.

13. Worker Education
OSHA 29 CFR 1910.1025 requires that those workers who are potentially exposed to any lead level shall be informed of the content of Appendices A and B of this standard. A training program must be instituted for all individuals who are subject to exposure to lead at or above the action level or for whom the possibility of skin or eye irritations exists. The training program shall be repeated for personnel currently involved in range cleanup operations, at least annually. This training must be documented on DD Form 1556 or DD Form 1556-1 and filed permanently in the employee's Official Personnel File (OPF) or the soldier's Official Military Personnel File (OMPF). As a minimum, complete blocks 1, 2, 3, 7, 8, 11, 12, 13, 17, 18, 24, 33, and 36 on DD Form 1556. Place the following statement in block 18, "Do not destroy, retain this record for the duration of employment/service plus 30 years." The employer will assure that each employee is informed of the following:

a. The content of the standard and its appendices.

b. The specific nature of operations that could result in exposure to lead above the action level.

c. The purpose, proper selection, fitting, use and limitations of respirators.

d. The purpose and a description of medical surveillance program.

e. Eating and drinking are prohibited in lead contaminated areas.

f. Smoking and smoking materials will not be permitted in contaminated areas.

g. Employees must wash their hands and other exposed skin whenever they leave the work area.

h. The engineering controls and work practices associated with the individual's job assignment.

i. The contents of any compliance plan in effect.

14. Personal Protective Equipment
As a minimum, personnel conducting the decontamination of the range will be provided with the following personal protective equipment:

a. Full face air purifying respirator with HEPA cartridges. The requirements outlined in 29 CFR 1910.134 must be met prior to placing workers in respiratory protection.

b. Protective coveralls with hood and shoe covers or disposable Tyvek TM full body suit. Protective clothing will be changed at least daily at the end of shift and more frequently if it should become grossly contaminated. If cotton coveralls are used by the employees, then the employer will provide for maintaining and laundering of protective clothing. Protective clothing will not be taken home by personnel. Prior to leaving the work area, employees will thoroughly HEPA vacuum clothing to prevent lead dust from leaving the area. If disposable clothing is used, it will be HEPA vacuumed before removal and placed in a proper disposal container. Work and street clothing will not be stored together.

c. Disposable rubber gloves will be provided.

15. Point of Contact
Deviations from this guidance will require a written exception to policy from your Regional Industrial Hygiene Office. Questions and/or comments regarding this subject should be directed to your Regional Industrial Hygiene Office or Chief, National Guard Bureau, Attn: NGB-AVN-SI, 111 South George Mason Drive, Arlington, VA 22204-1382.

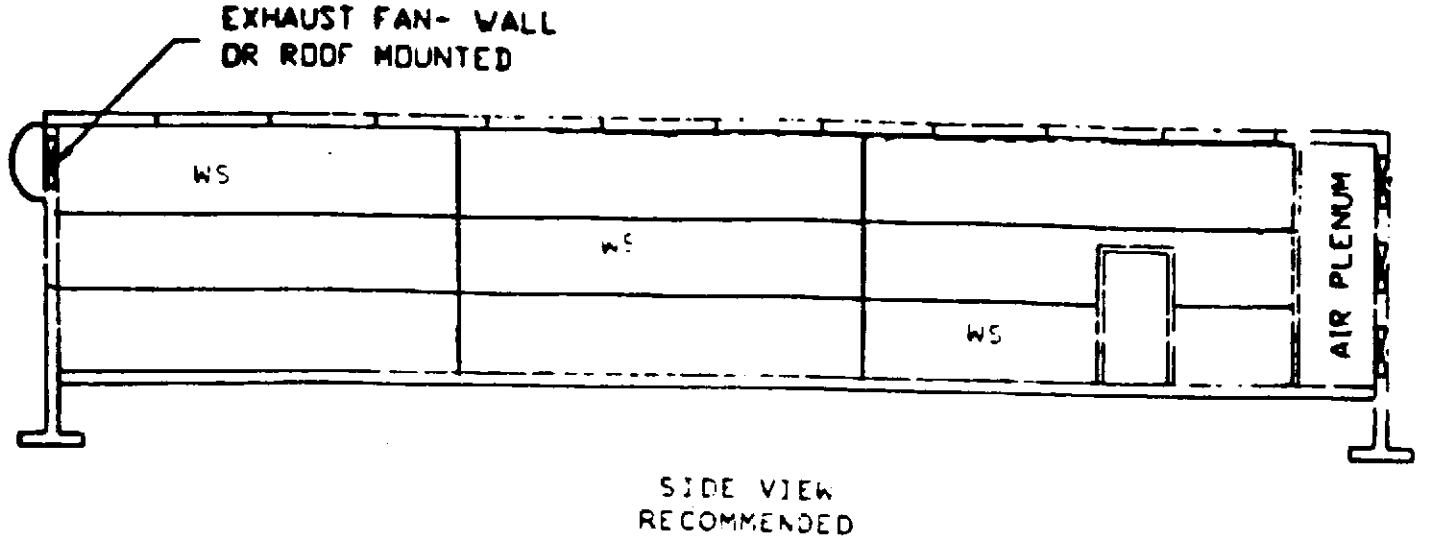
Appendix A
SAMPLING STRATEGY FOR COLLECTION OF WIPE SAMPLES

A-1. A template measuring 10 centimeters by 10 centimeters square, approximately 4 inches square, (see App D, app 2-A) should be used to accurately measure and mark the area before collecting wipe samples.

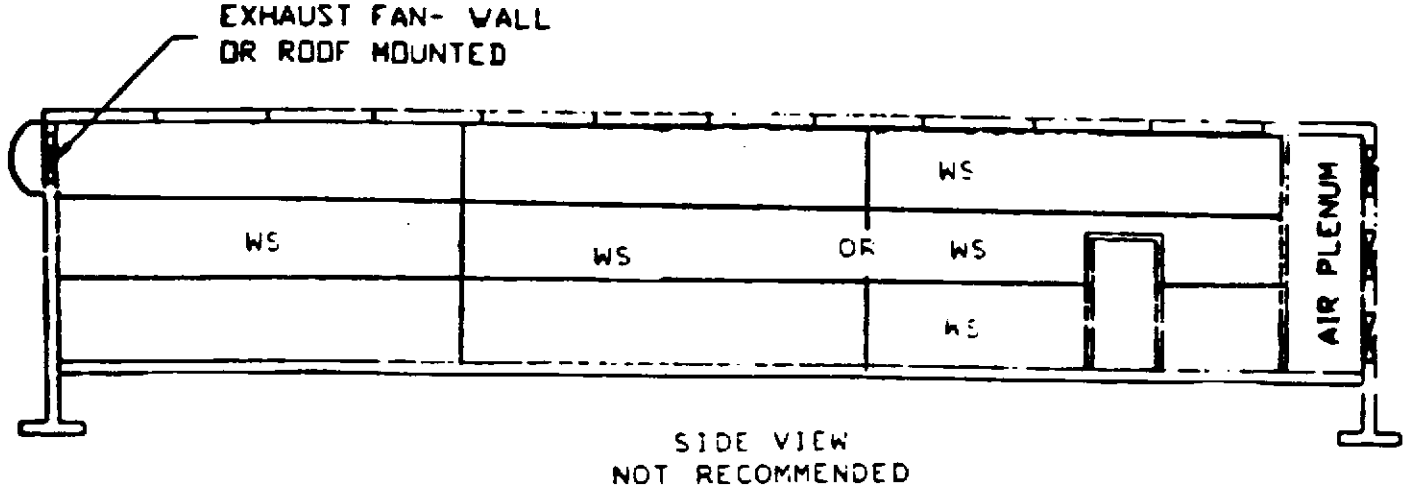
A-2. Prior to cleaning the range, three samples must be collected and analyzed for total lead dust on each surface, i.e., floor, ceiling, backstop, and each wall to include the plenum wall, if applicable. In addition, a total of 3 samples should be collected from the fixtures, i.e., gas/electric heaters, lights, baffles. As a minimum, 18 samples will be collected. Samples should be collected from areas which have been least disturbed by airflow. Established walkways should be avoided.

A-3. Samples should be staggered to different areas of the range. A grid system should be utilized. Each range surface area should be divided evenly into 3 sections by 3 sections. A wipe sample should be collected as illustrated in **figures A-1** and **A-2**. Samples should not be collected on all one section of a wall or end of the building.

SAMPLING STRATEGY FOR COLLECTION OF WIPE SAMPLES



SIDE VIEW
RECOMMENDED

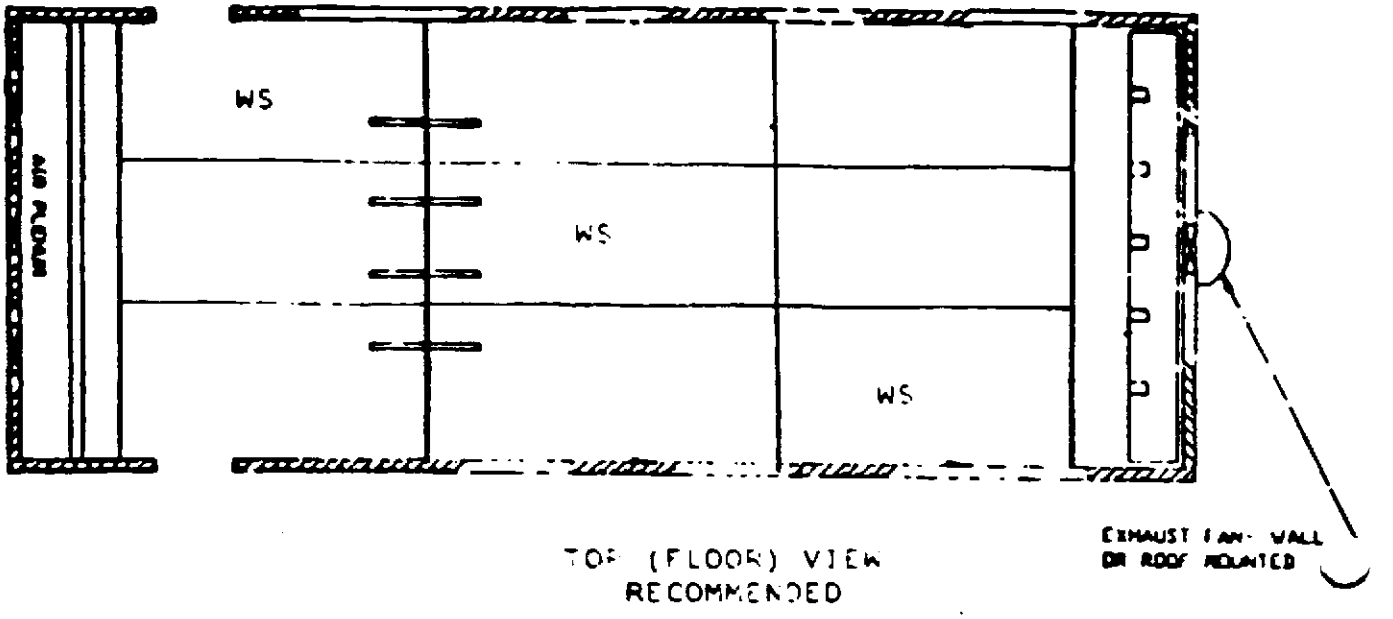


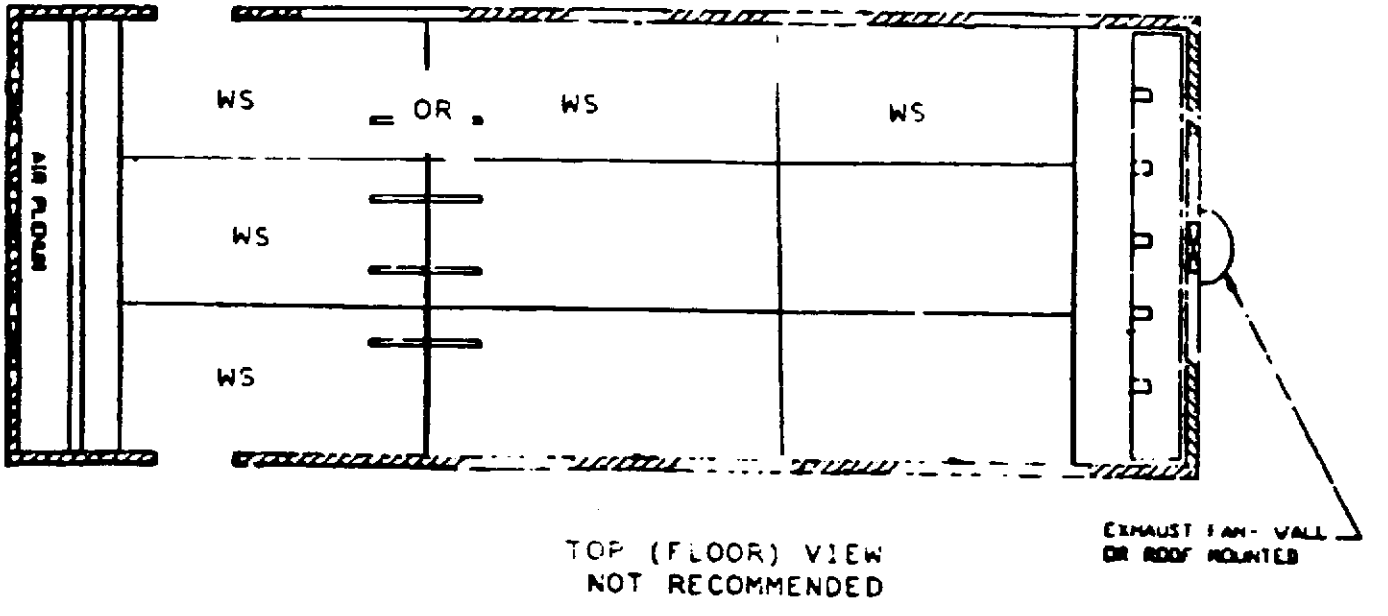
SIDE VIEW
NOT RECOMMENDED

WS - WIPE SAMPLE

Figure A-2. Sampling Strategy for Collection of Wipe Samples

SAMPLING STRATEGY FOR COLLECTION OF WIPE SAMPLES





WS - WIPE SAMPLE

Figure A-1. Sampling Strategy for Collection of Wipe Samples

APPENDIX B
INTERPRETATION OF SAMPLE RESULTS (PRIOR TO CLEANING)

B-1 200 micrograms/sq ft or LESS
If all sample results are 200 micrograms/sq ft or less, the range can be converted and/or used for any purpose.

B-2 BETWEEN 201 and 200,000 micrograms/sq ft.
Range must be decontaminated. Continue with cleaning instructions listed in paragraph 15. Sample results will be used to establish a baseline. The baseline sample results will be used to ensure the 75 percent reduction is achieved.

B-3 OVER 200,000 micrograms/sq ft.
Your sample media may not be capable of collecting additional lead dust and results that are above 200,000 micrograms/sq ft should be considered suspect. Larger concentrations of lead dust may exist on surfaces tested other than results indicate. If the initial sampling results are above 200,000 micrograms/sq ft, the range should be cleaned by either HEPA vacuuming and/or wet wiping to establish a baseline. After the cleaning procedure is completed, resampling should occur until sample results are under the 200,000 micrograms/sq ft limit.

B-4 High sample results may exist due to personnel walking or moving equipment/vehicles over the range surfaces causing the lead dust to be "ground" into the substratum. For example, a maintenance activity may have oversprayed paint or spilled solvents onto the surface which would bond with the lead dust. Consult your Regional Industrial Hygiene Office for specific guidance.

APPENDIX C
INTERPRETATION OF SAMPLE RESULTS (AFTER CLEANING)

C-1 200 micrograms/sq ft or LESS
If all sample results are less than 200 micrograms/sq ft, the range can be converted and/or used for any purpose after a coat of lead-free latex paint is applied. The paint color must contrast the color of the present substratum.

C-2 ABOVE 200 micrograms/sq ft
As a minimum, a 75 percent reduction should occur from your initial sample results or the samples should be under the 200 microgram/sq ft level. If all sample results meet this criteria, a contrasting color of lead-free latex paint must be applied before the area is utilized for other purposes. The room can only be used as a storage area. Storage of kitchen equipment and food is prohibited. The room cannot be used for a child care or nursery area. If sample results are not below the 75 percent reduction, a more thorough cleaning of the range is required along with resampling until criteria are met.

* **PLEASE NOTE**, that if your original wipe sample results were, i.e., 175,000 ug/sq ft then you would have to reduce the lead level below 13,125 ug/sq ft. This would meet the 75 percent reduction criteria; however, this is an enormous amount of lead dust and care should be taken to ensure a heavy coat of paint seals the lead dust. It is unknown at this time whether or not the remaining amount of lead dust will allow the latex paint to adhered to the substratum. If the paint peels, falls to the floor and is crushed over a period of time, it will create another respirable lead hazard. If this happens, contact your Regional Industrial Hygiene Office for guidance. Periodically monitor the converted range for signs of peeling paint. Paint chips can be analyzed for lead content. **DO NOT IGNORE PEELING PAINT IN A CONVERTED INDOOR FIRING RANGE.**

Appendix D

CHAPTER 2

SAMPLING FOR SURFACE CONTAMINATION

A. GENERAL

1. The terms "wipe sampling," "swipe sampling" and "smear sampling" are all used synonymously to describe the techniques used for assessing surface contamination. However, the term "wipe sampling" is one which will be used in this chapter.

2. "Wipe sampling" is most often used to screen for asbestos, lead, other metals, and PCBs.

3. The uses are:
   a. Skin Sampling
      1) Potential contact with skin irritants may be evaluated by wiping surfaces, which may be touched by workers.
      2) Skin wipes are not recommended for those substances which absorb rapidly through the skin. Biological monitoring for these substances or their metabolites, or biological markers, is often the only means of assessing their absorption. Wipe the inside surfaces of protective gear or other surfaces which may contact skin, instead.
   b. Surfaces
      1) Surfaces which may be contacted by food or other materials which are ingested or placed in the mouth (e.g., chewing tobacco, gum, cigarettes) may be wipe sampled (including hands and fingers) to show contamination.
      2) Contaminated smoking materials may allow the toxic materials, or their combustion products, to enter the body via the lungs (e.g., lead, mercury). Wiping of surfaces which smoking materials may touch (e.g., hands and fingers) may be useful in evaluating this possible route of exposure.
      3) Accumulated toxic materials may become suspended in air, and may contribute to airborne exposures (e.g., asbestos, lead or beryllium). Bulk and wipe samples may aid in determining this possibility.
   c. Personal Protective Equipment Sampling
      1) Effectiveness of personal protective gear (e.g., gloves, aprons, respirators, etc.) may sometimes be evaluated by wipe sampling the inner surfaces of the protective gear (and protected skin).
      2) Effectiveness of decontamination of surfaces and protective gear (e.g., respirators) may sometimes be evaluated by wipe sampling.

4. When accompanied by close observation of the operation in question, wipe sampling can help identify sources of contamination and poor work practices.

5. Evaluation of Sampling Results
   a) False negative results, i.e., surface contamination is not detected by a wipe sample, are possible.
   b) The CSHO must use professional judgment on a case-by-case basis when evaluating the significance of positive wipe sampling results.

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c) Consider the toxicity, contribution of skin absorption and/or gastrointestinal absorption to the total dose. Other factors are the ambient air concentrations, skin irritation, etc., when evaluating sample results.

6. The Chemical Information Manual, lists substances which represent a potential for ingestion toxicity, skin absorption, and/or have a hazardous skin effect. This information may be found under the "Health" notation. Additional toxicological information concerning chronic skin absorption, dermatitis, etc. should be used in determining if the resulting exposure presents a potential employee hazard (see bibliography).

B. GENERAL TECHNIQUE FOR WIPE SAMPLING

1. Filter Media and Solvents
   a. Consult the Chemical Information Manual, for appropriate filter media and solvents (dry wipes may be used; solvents are not always necessary but may enhance removal).
   b. Direct skin wipes should not be taken when high skin absorption of a substance is expected. Under no conditions should any solvent other than distilled water be used on skin, personal protective gear which directly contacts the skin, or surfaces which contact food or tobacco products.
   c. Generally, there are two types of filters recommended for taking wipe samples:
      1) Glass fiber filters (GFF) (37 mm) are usually used for materials which are analyzed by High Performance Liquid Chromatography (HPLC), and often for substances analyzed by Gas Chromatography (GC). The Chemical Information Manual specifies when GFFs are to be used.
      2) Paper filters are generally used for metals, and may be used for anything not analyzed by HPLC. For convenient usage, the Whatman smear tab (or its equivalent) is commonly used. (see Chemical Information Manual for details).
   d. Preloading a group of vials with appropriate filters is a convenient method. (The Whatman smear tabs should be inserted with the tab end out.) Always wear clean plastic gloves when handling filters. Gloves should be disposable and should not be powdered.

2. Procedures

Follow these procedures when wipe samples are taken:

a. If multiple samples are to be taken at the worksite, prepare a rough sketch of the area(s) or room(s) which are to be wipe sampled.
b. A new set of clean impervious gloves should be used with each individual sample. This avoids contamination of the filter by the hand and the subsequent possibility for false positives, and prevents contact with the substance.
c. Withdraw the filter from the vial. If a damp wipe sample is desired, moisten the filter with distilled water (or other solvent as recommended in the Chemical Information Manual).

CAUTION:

Skin, personal protective equipment or surfaces which contact food or tobacco products must either be wiped DRY, or wiped with distilled water, never with organic solvents. Skin wipes should not be done for materials with high skin absorption.

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It is recommended that hands and fingers be the only skin surfaces wiped. Before any skin wipe is taken, explain why you want the sample and ask the employee about possible skin allergies to the chemicals in the sampling filter or media. If the employee refuses, do not force the issue.

c. Wipe a section of the surface to be sampled using a template with an opening exactly 100 cm^2. (See Appendix 2-A)

e. For surfaces smaller than 100 cm^2 use a template of the largest size possible. Be sure to document the size of the area wiped. For curved surfaces, the wiped area should be estimated as accurately as possible and then documented.

f. Maximum pressure should be applied when wiping.

g. To insure that all portions of the partitioned area are wiped, start at the outside edge and progress toward the center making concentric squares of decreasing size.

h. If the filter dries out during the wiping procedure, discard the filter, reduce area to be wiped by half, and repeat wiping procedure with a new filter.

i. Without allowing the filter to contact any other surface, fold the filter with the exposed side in, then fold it over again. Place the filter in a sample vial, cap the vial, number it, and place a corresponding number at the sample location on the sketch. Include notes with the sketch giving any further description of the sample (e.g., "Fred Employee's respirator, inside;" "Lunch table;" etc.).

j. At least one blank filter treated in the same fashion, but without wiping, should be submitted for each sampled area.

k. Submit the samples to the Salt Lake City Analytical Laboratory with the appropriate OSHA 91.

C. SPECIAL TECHNIQUES FOR WIPE SAMPLING

1. Acids and Bases

When examining surfaces for contamination with strong acids or bases, (e.g., hydrochloric acid and sodium hydroxide), pH paper moistened with water may be used. However, these results should be viewed with caution due to potential interferences.

2. Direct Reading Instruments

For some types of surface contamination (e.g., mercury sniffer for mercury), direct reading instruments may be used.

3. Aromatic Amines

Screening may be done to determine the precise areas of carcinogenic aromatic amine contamination. This is an optional procedure. (See Appendix 2-B)

D. SPECIAL CONSIDERATIONS

1. Due to their volatile nature, most organic solvents are not suitable for wipes. If necessary, surface contamination can be judged by other means, (e.g., by use of detector tubes, photoionization analyzers, or other similar instruments). Consult the Chemical Information Manual.

2. Some substances are not stable enough as samples to be wipe sampled reliably. Consult the Chemical Information Manual.

3. Some substances should have solvent added to the vial as soon as the wipe sample is placed in the vial (e.g., Benzidine). These substances will be indicated with an "X" next

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to the solvent notation in the Chemical Information Manual.

4. Do not take surface wipe samples on skin if:
   a) OSHA or ACGIH shows a "skin" notation, the substance has a skin LD50 of 200 mg/kg or less, or an acute oral LD50 of 500 mg/kg or less.
   b) The substance is an irritant, causes dermatitis, contact sensitization, or is termed corrosive.

BIBLIOGRAPHY

Adams, R.M. 1983. Occupational Skin Disease. New York: Grune and Stratton.

Benezra, C. *et al.* 1982. Occupational Contact Dermatitis. Clinical and Chemical Aspect. Philadelphia: Saunders. 1st ed.

Chaiyuth, C. and L. Levin. A Laboratory Evaulation of Wipe Testing Based on Lead Oxide Surface Contamination. Am. Ind. Hyg. Assoc. J. 45:311-317, 1984.

Clayton, G.D. and F.E. Clayton. 1981. Patty's Industrial Hygiene and Toxicology. New York: John Wiley & Sons. Vol. II.

Fisher, A.A. 1986. Contact Dermatitis. Philadelphia: Lea & Febriger. 3rd ed.

Gellin, G. and H.I. Malbach. 1982. Occupational and Industrial Dermatology. Chicago: Year Book Medical Publisher.

Lees, P.S.J. *et al.* Evidence for Dermal Absorbtion as the Major Route of Body Entry During Exposure of Transformer Maintenance and Repairman to PCBs. Am. Ind. Hyg. Assoc. J. 48:257-264, 1987.

Occupational Safety and Health Administration (OSHA), U.S. Dept. of Labor. 1987. Chemical Information Manual. Washington, D.C.:U.S. Government Printing Office.

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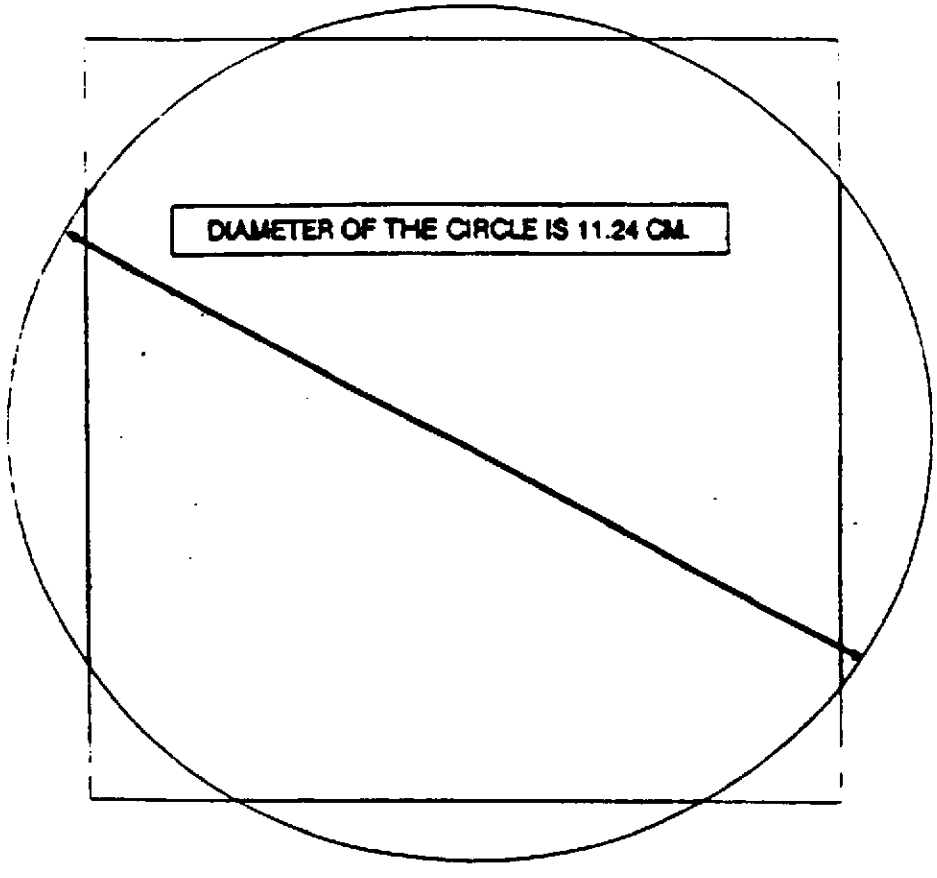
APPENDIX 2-A

Template samples which cover 100 square centimeters.



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APPENDIX 2-B

Screening for Carcinogenic Aromatic Amines

1. As in the case of routine wipe sampling, wear clean, disposable impervious gloves. Wipe an area of exactly 100 cm^2 with a sheet of filter paper moistened in the center with 5 drops of methanol.

2. After wiping the sample area, apply 3 drops of fluorescamine (a visualization reagent supplied by SLCAL upon request) to the contaminated area of the filter paper.

3. Place a drop of the visualization reagent on an area of the filter paper which has not contacted the surface. This marks a non-sample area or *blank* on the filter paper adjacent to the test area.

4. After a reaction time of 6 minutes, irradiate the filter paper with 366 nm ultraviolet light.

5. Compare the color development of the contacted area with the non–sample area or *blank*. A positive reaction will show a discoloration as a yellow color darker than the yellow color of the fluoroescamine *blank*.

6. A discoloration indicates surface contamination, possble aromatic amine carcinogen. Repeat a wipe sampling of the contaminated areas using the regular surface contamination procedure.

7. The following compounds are some of the suspected carcinogenic agents that can be detected by this screening procedure:

4,4'-Methylene bis(2-chloroaniline)
Benzidine
α-Napthylamine
β-Napthylamine
4-Aminobiphenyl

APPENDIX E
Where to Purchase Sample Media and Containers

E-1. The following is a list of vendors which supply the media and containers necessary to collect air and lead surface wipe samples. The information is provided to assist States in obtaining the proper media and containers. Alternative vendors are available and may be utilized, if known. Contact your Regional Industrial Hygiene Office for additional assistance or clarification.

E-2. Pre-loaded 3 piece cassette with cellulose ester (CE) filter and pad, 37 millimeter (mm), pore size 0.8 microns, breathing zone (BZ) and general area (GA) air samples.

Order From	Catalog Number
a. Millipore Corp. Ashby Road Bedford, MA 01730 617-275-9200 800-225-1380	MAWP-037-A0
b. Gelman Sciences 600 South Wagner Rd Ann Arbor, MI 48106 313-665-0651 800-521-1520	64678 (GN-4)
c. Supelco, Inc. Supelco Park Bellefonte, PA 16823 800-247-6628 800-359-3041	2-3368M

E-3. 37 mm CE filter with pad, no cassette included, for lead surface wipe samples.

Order From	Catalog Number
a. Supelco, Inc. Supelco Park Bellefonte, PA 16823 800-247-6628 800-359-3041	2-3381M
b. Millipore Corp. Ashby Road Bedford, MA 01730 617-275-9200 800-225-1380	AAWP-037-00
c. SKC,Inc. 334 Valley View Rd Eighty Four, PA 15330 412-941-9701 800-752-8472	225-5

E-4. Smear tabs are used for lead surface wipe samples.

Order From	Catalog Number
a. SKC,Inc. 334 Valley View Rd Eighty Four, PA 15330 412-941-9701 800-752-8472	225-24

E-5. Number 40 Whatman paper, 11.0 centimeters in diameter, used for surface wipe samples.

Order From	Catalog Number
a. Cole-Parmer 7425 North Oak Park Ave Chicago, IL 60648 708-647-7600 800-323-4340	L-06647-13
b. Thomas Scientific 99 High Hill Rd at I-95 P.O. Box 99 Swedesboro, NJ 08085-0099 609-467-2000 800-524-0027	4716-E25
c. Fisher Scientific 711 Forbes Avenue Pittsburgh, PA 15219 412-562-8300	09-845-D

E-6. Glass container (25 milliliter) for collection and shipment of media.

Order From	Catalog Number
a. Pierce Chemical Company P.O. Box 117 Rockford, IL 61105 815-968-0747 800-874-3723	13219 (screw cap)
b. Alltech Associates, Inc. Applied Science Labs 2051 Waukegan Rd Deerfield, IL 60015 312-948-8600 800-255-8324	95321 (screw cap)

E-7. Plastic ziplock bags can be obtained through the Army logistics system. Many sizes are available. Contact your supporting logistics branch for assistance.

E-8. Distilled water can be purchased at larger grocery stores, usually by the gallon, at a cost of approximately $1.25. Deionized water can be obtained at local and state water labs or a hospital.

E-9. Tri-Sodium Phosphate (TSP) can be purchased at almost any hardware store.

Appendix F

BULK SAMPLE DATA

For use of this form see USAEHA TG 141; the proponent is HSHB-LO.

Return Address *(complete address including Zip Code)*	Point of Contact *(name/AUTOVON)*

Sampled Installation	Project Number	ARLOC ☐☐☐☐☐

Samples Collected By	Date Collected	Date Shipped

Description of Operation	Location *(BLDG/AREA)*

Associated Complaints *(be specific)*

Associated Air Samples ☐Yes ☐No — If yes, list sample numbers

Label Information

Trade Name	NSN	Manufacturer

Address	MSDS Attached ☐Yes ☐No

Analysis Desired

Lab Use Only	Sample No.	Constituents	Results	Remarks

Comments to Lab:

Lab Use Only

Analyst *(initials)*	Reviewed By *(initials)*	Date Received	Date Reported

Procedures Performed	Comments:

AEHA Form 8, 1 Oct 84

Appendix G

USAEHA TG No. 141 **December 1990**

Instructions for Completing AEHA Form 8-R, Bulk Sample Data

1. **Return address:** Self-explanatory.

2. **Point of contact.** Name and DSN of person in charge of sampling/project.

3. **Sampled installation:** Self-explanatory.

4. **Project number:** For USAEHA and OSA use only.

5. **ARLOC:** Army location code - reference DA Pam 525-12 (CONUS) and 525-13 (Foreign).

6. **Samples collected by:** Self-explanatory.

7. **Date collected:** Self-explanatory.

8. **Date shipped:** Date samples sent for analysis.

9. **Description of operation:** Brief description of the industrial operation (for example, degreasing metal parts, spray painting vehicles, etc.).

10. **Location (bldg/area):** Self-explanatory.

11. **Associated complaints:** Worker complaints about exposure problems arising from operation (for example, dizziness, nausea, skin irritation, etc.).

12. **Associated air samples:** If air samples corresponding to these bulks are submitted for analysis, please so indicate and list the sample numbers which identify these air samples. Ship air samples separately from bulk samples.

13. **Label information:**

a. **Trade name:** Self-explanatory; if unknown, indicate.

b. **NSN:** If available, so indicate.

c. **Manufacturer:** Self-explanatory; if unknown, so indicate.

d. **Address:** Self-explanatory; if unknown, so indicate.

e. **MSDS:** Attach the MSDS whenever possible and so indicate.

14. **Analysis desired:** List specific parameters when they are known or suspected to be present otherwise, indicate general type of analysis desired (for example, unknown solvents, etc.).

15. **Lab use only:** Leave blank.

16. **Sample number:** Number that field personnel assigns to the sample number. Use a consecutive numbering system so there is no duplication of numbers from batch-to-batch samples.

17. **Constituents:** Leave blank.

18. **Results:** Leave blank.

19. **Remarks:** Leave blank.

20. **Comments to lab:** Use for any general information or remarks you wish to include.

21. **Lab use only:** Leave blank.

APPENDIX H

Examples of Computation of Lead Levels From Wipe Sample Results

Sample results will be returned in the form of micrograms. The results must be converted to micrograms per square foot. This can be accomplished by following the examples listed below:

$$\frac{\frac{75ug}{100\ cm2} \quad \frac{929\ cm2}{1\ sq\ ft}}{\frac{ug}{sq\ ft}}$$

$$\frac{75 \times 929}{100} = \frac{69675}{100} = 696.75ug/sq\ ft$$

OR

$$\frac{\frac{75ug}{16in2} \quad \frac{144\ in2}{1\ sq\ ft}}{\frac{ug}{sq\ ft}}$$

$$75 \times 9 = 675ug/sq\ ft$$

ug - microgram
cm2 - centimeters squared
sq ft - square foot
in2 - inches squared

Appendix I

USAEHA TG NO. 141 **December 1990**

Supporting Laboratories and Areas Served

Supporting laboratory	Areas served
Commander U.S. Army Environmental Hygiene Activity-South Fort McPherson, GA 30330-5000 DSN 572-3234	Alabama, Arkansas, Florida, Georgia, Western Kentucky, Louisiana, Mississippi, Oklahoma, Panama, Puerto Rico, South Carolina, Tennessee, Central & Eastern Texas
Commander U.S. Army Environmental Hygiene Activity-West Fitzsimons Army Medical Center Aurora, CO 80045-5001 DSN 943-8288	Alaska, Arizona, California, Colorado, Idaho, Illinois, Iowa, Kansas, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oregon, South Dakota, West Texas, Utah, Washington, Wisconsin, Wyoming
Commander U.S. Army Pacific Environmental Health Engineerng Agency Sagami APO San Francisco 96343 Camp Zama 228-4111	Hawaii, Japan, Korea, Okinawa, Philippines,Thailand, and all other Far East countries
Commander 10th Medical Laboratory ATTN: AEMML-PM-LAB APO New York 09180 Landstuhl Military (2223-)7272	Europe, Africa, Middle East, Western Europe, Turkey, Africa, and Middle East countries
Commander U.S. Army Environmental Hygiene Agency ATTN: HSHB-ML-A Bldg E2100 Aberdeen Proving Ground, MD 21010-5422 DSN: 594-2619 (metals, quartz, asbestos) DSN: 584-2208 (solvents, organics, acid mists, pesticides)	a. Worldwide support to laboratories listed above b. Connecticut, Delaware, District of Columbia, Eastern Kentucky, Indiana, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Vermont, Virginia, West Virginia

Glossary

Section I
Abbreviations

ANG
Air National Guard

ARNG
Army National Guard

BUN
Blood urea nitrogen

BZ
breaking zone

CBC
Complete blood count

CE
cellulose ester

CFR
Code of Federal Regulations

cm
centimeter

DHEW
Department of Health, Education, and Welfare

EPA
Environmental Protection Agency

GA
general area

OMPF
Official Military Personnel File

mm
millimeter

OPF
Official Personnel File

OSHA
Occupational Safety and Health Administration

TCLP
Toxic Characteristic Leaching Procedure

TSP
Tri-Sodium Phosphate

ug/sq ft
microgram per square foot

USAEHA
US Army Environmental Hygiene Agency

Section II
Terms

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

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

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

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

PHILIP G. KILLEY
Major General, USAF
Acting Chief, National Guard Bureau

Official:

DAVID MISKELL
Acting Chief
Administrative Services

Distribution: A/F

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARCAL-SEIH August 19, 2008

MEMORANDUM THRU LT. Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. Non-Responsive, Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Calhoun National Guard Armory, Lead Sampling Survey, Calhoun, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On July 25, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR appeared to have undergone conversion to a training/classroom. The flooring was observed to be covered with vinyl floor tile and there was a drop ceiling present completed with acoustical ceiling panels. Painted cinder-block walls were observed and there were offices constructed in the area identified as the former location of the bullet stop. There was however exposed concrete flooring and original ceiling materials observed inside the electrical room of the converted IFR. As a result of the renovated room, sampling locations were limited to exposed wall surfaces, concrete flooring and ceiling materials in the electrical room as well as the vinyl floor covering.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Ghost Wipes™ are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 14 samples were collected including three from each exposed surface area, with the exception of only one sample collected from the exposed ceiling area at the rear of the former IFR and there were no samples collected from the wall adjacent to the former bullet stop due to the offices constructed at that location. Collected samples were submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results did not indicate the presence of lead concentrations above the IFR post cleaning standard of 200micrograms per feet squared ($\mu g/ft^2$). These sampling results indicate that any previous decontamination activities appear to be adequate to remove the lead dust from the former range at acceptable levels. It should be noted that the sampling activities were completed in a former IFR which has undergone conversion/renovation.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
CAL-01	Upper Right Wall	BRL[2]
CAL-02	Middle Right Wall	BRL
CAL-03	Lower Right Wall	BRL
CAL-04	Upper Rear Wall	BRL
CAL-05	Middle Rear Wall	BRL
CAL-06	Lower Rear Wall	BRL
CAL-07	Upper Left Wall	BRL
CAL-08	Middle Left Wall	BRL
CAL-09	Lower Left Wall	BRL
CAL-10	Floor at Former Bullet Stop	BRL
CAL-11	Floor, Middle of Former IFR	BRL
CAL-12	Floor, Rear of Former IFR	BRL
CAL-13	Field Blank	BRL
CAL-14	Ceiling at Rear of Former IFR	BRL

[1] Results reported in micrograms per square feet ($\mu g/ft^2$)
[2] BRL = Below Reportable Limits

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. In as much as the former IFR at the Calhoun Armory has been converted to a training room, it appears that lead dust is not present at concentrations above the NGB standard. It should be noted that the sampling activities were limited to exposed areas and in the case of the floor sampling, the vinyl floor tile was wiped for lead dust.

b. In accordance with NGB Pamphlet 420-15, continue lead testing on an annual basis to verify that lead has not migrated from the substrate.

NGB-ARCAL-SEIH August 19, 2008
SUBJECT: Lead Sampling Survey, Calhoun Armory, Calhoun, Georgia.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 01, 2008

[redacted]
National Guard Bureau Region-South IH
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Calhoun Armory

Order No.: 0807I18

Dear [redacted]

Analytical Environmental Services, Inc. received 14 samples on 7/25/2008 12:45:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

[redacted]
for Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

378 [illegible]ential Parkway, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 807158

Date: 7/25/08 Page 1 of 1

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Drive, Ste 550 College Park, GA

PHONE: 41559-4174

FAX: 41559-4175

SAMPLED: [redacted]

SIGN: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. of Containers
1	Cal-01	7/25/08		X		wipe	X	1'x1' Sample	1
2	Cal-02	7		X			X		1
3	Cal-03			X			X		1
4	Cal-04			X			X		1
5	Cal-05			X			X		1
6	Cal-06			X			X		1
7	Cal-07			X			X		1
8	Cal-08			X			X		1
9	Cal-09			X			X		1
10	Cal-10			X			X		1
11	Cal-11			X			X		1
12	Cal-12			X			X	1'x1' sample	1
13	Cal-13			X			X		1
14	Cal-14	7/25/08		X		wipe	X	1'x1' Sample	1

RELINQUISHED BY: [redacted] DATE/TIME: 7/25/08

RECEIVED BY: [redacted] DATE/TIME: 7/25/8 12:45

3:

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: Calhoun Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: [redacted]

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 14

Turnaround Time Request

- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any)

E-mail? Y / N, Fax? Y / N

DATA PACKAGE I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA. ARMY Work Order Number 0807I18

Checklist completed by [redacted] 07/26/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓ 7/25/08	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: 8/4/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Calhoun Armory
Delivery Order:
PO No:

Lab Order: 0807I18
Date Received: 7/25/2008 12:45 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0807I18-001A	CAL-01	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-002A	CAL-02	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-003A	CAL-03	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-004A	CAL-04	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-005A	CAL-05	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-006A	CAL-06	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-007A	CAL-07	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-008A	CAL-08	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-009A	CAL-09	BRL	µg/ft²	20	1	7/25/2008	7/29/2008	JY
0807I18-010A	CAL-10	BRL	µg/ft²	20	1	7/25/2008	7/30/2008	JY
0807I18-011A	CAL-11	BRL	µg/ft²	20	1	7/25/2008	7/31/2008	JY
0807I18-012A	CAL-12	BRL	µg/ft²	20	1	7/25/2008	7/31/2008	JY
0807I18-013A	CAL-13	BRL	ug, Total	20	1	7/25/2008	7/31/2008	JY
0807I18-014A	CAL-14	BRL	µg/ft²	20	1	7/25/2008	7/31/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

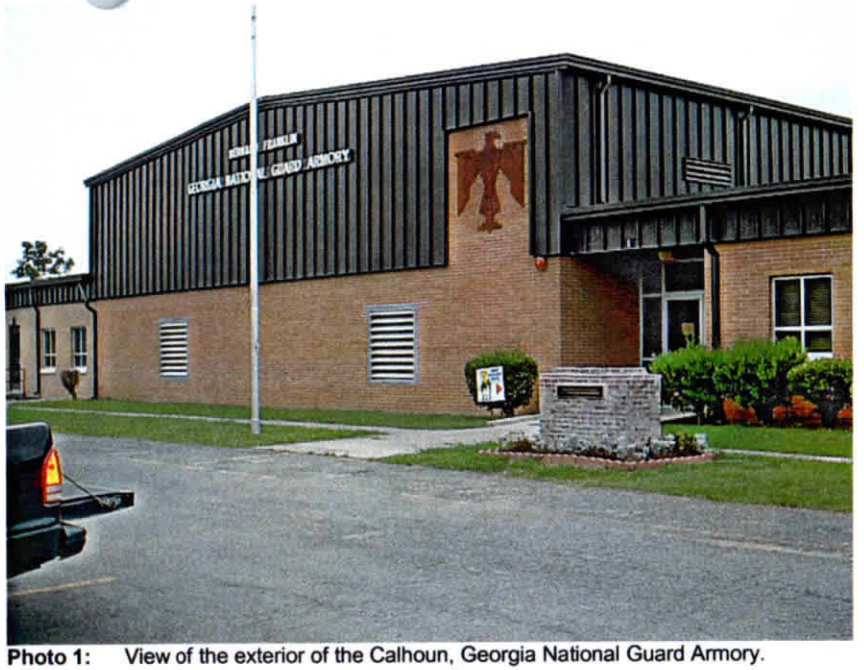

Photo 1: View of the exterior of the Calhoun, Georgia National Guard Armory.

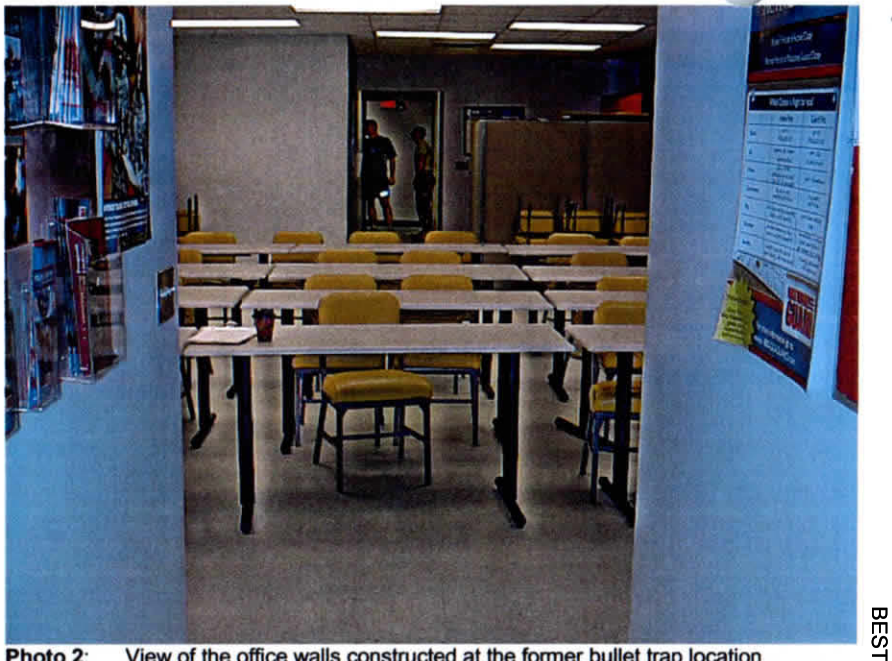

Photo 2: View of the office walls constructed at the former bullet trap location.

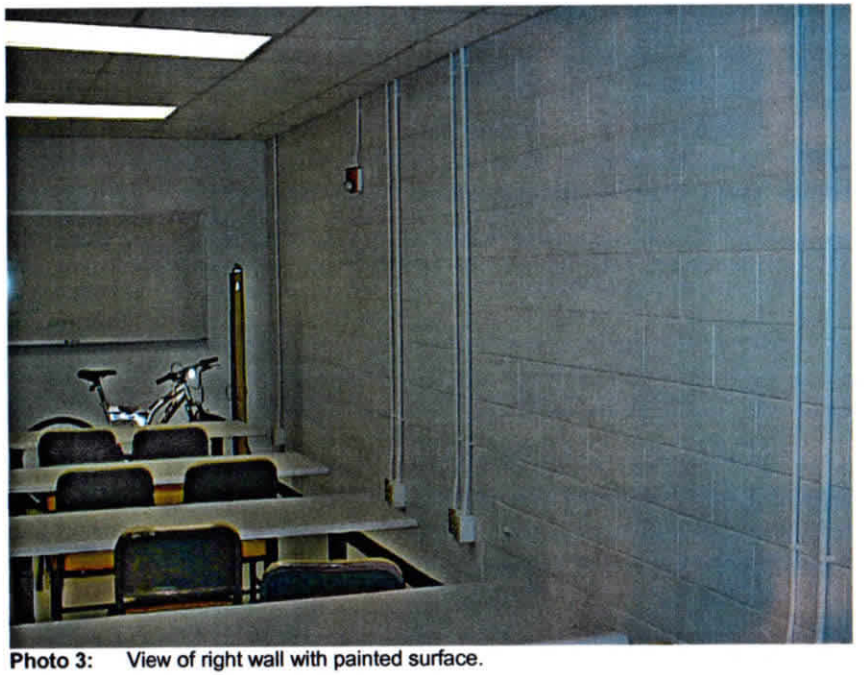

Photo 3: View of right wall with painted surface.

Photo 4: View of left wall with painted surface inside the former IFR.

Project Name: Calhoun, Georgia Armory

Date Photos Taken: 25 July 2008

Photo 5: View of sample locations on the left wall of the former IFR and vinyl flooring.

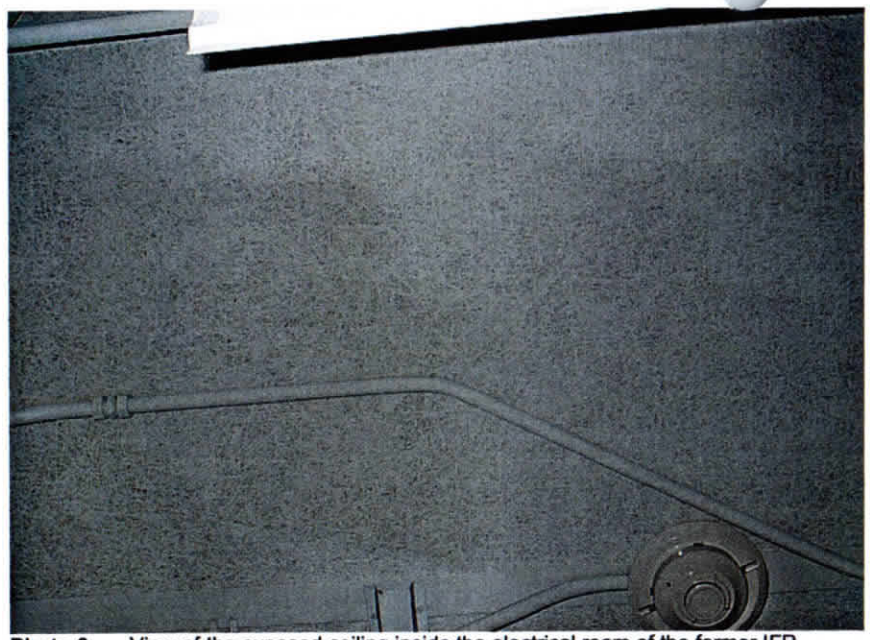

Photo 6: View of the exposed ceiling inside the electrical room of the former IFR

Photo 7: View of drop ceiling and acoustical panels observed in the converted classroom.

Photo 8: View of concrete floor with lead sample location outlined inside the electrical room.

Project Name: Calhoun, Georgia Armory

Date Photos Taken: 25 July 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SI 17 March 2003

MEMORANDUM FOR THE: Georgia Army National Guard, ATTN: MAJ. Non-Responsive Non-Responsive Armory Supervisor, HHC 1st Battalion 108th Armor, P.O. Box 36, Calhoun, GA 30703.

SUBJECT: Industrial Hygiene Service Contract for the Georgia Army National Guard, to look at the Calhoun National Guard Armory.

1. References.

a. Report dated 25 January 2003, Industrial Hygiene Survey, Non-Responsive

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

c. AR 40-5, Preventive Medicine, 15 October 1990.

d. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

e. AR 385-10, 23 May 1988, Army Safety Program.

f. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

g. TB MED 503, The Army Industrial Hygiene Program.

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

i. Industrial Ventilation, 22nd, 1995, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of MS. Non-Responsive of the Georgia State Safety and Occupational Health Office, an Industrial Hygiene Service Contract was put together to conduct an Industrial Hygiene survey at the National Guard Armories in GA.

b. Dr. Non-Responsive conducted the survey.

3. Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

4. Recommendations.

a. Follow all recommendations made in reference 1. a. requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Use the report to help in correcting all deficiencies noted by the contractor.

c. To execute your responsibilities in correcting all deficiencies, coordinate with the FMO the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. If additional information is needed about the contractors report, please contact Non-Responsive Regional Industrial Hygienist, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: NBG-AVN-SH

CF: State Safety Office, GA, ATTN: Mrs. Non-Responsive Occupational Health Manager, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: Safety and Occupational Health Manager, P.O. 5019 Highway 42, Ellenwood, GA 30294.

Non-Responsive
583 GINGER CAKE RD
FAYETTTEVILLE, GA 30214
(770) 461-2684

January 25, 2003

Maj Non-Responsive
GA Army National Guard Armory
P. O. Box 36
Calhoun, GA 30703

RE: Baseline Industrial Hygiene Survey

FINAL REPORT

FOR

BASELINE INDUSTRIAL HYGIENE SURVEY

GEORGIA ARMY NATIONAL GUARD

CALHOUN ARMORY

CALHOUN, GA

DATE:

DECEMBER 13,2002

PREPARED BY

Non-Responsive
583 GINGER CAKE RD
FAYETTEVILLE, GA 30214
(770) 461-2684

CONTENTS

1.0 INTRODUCTION

At the request of the National Guard Bureau South Region Industrial Hygiene Office, Non-Responsive performed a Baseline Industrial Hygiene Survey at the GA ARNG Calhoun Armory. The purpose of the survey was to perform a baseline survey to evaluate health hazards, controls present in the work site, collect lead swipe samples from renovated/inactive or closed Indoor Firing Ranges and perform, illumination survey. And to make recommendations regarding health hazards associated with the work at the Calhoun Armory.

The building was finished in 1955. The facility houses the HHC 1st BN 108th Armor. The armory is used by the troops of the HHC 1st BN 108th Armor for their monthly weekend drills.

The HHC 1st BN 108th Armor with about 123 troops has 10 full time AGR personnel at the time of the survey. The AGR employees are assigned to perform administrative duties Tuesday-Friday 7:00am-5: 30pm. The facility houses administrative areas, a Drill Hall, a Classroom, a Supply Room, a Weapons Vault, a kitchen, and a deactivated Indoor Firing Range that was converted to administration offices many years ago. A schematic drawing of the facility can be found in Attachment 5.

The facility was visually examined and personnel consulted to assess potential hazards present. Health Hazard Information Modules were completed. Illumination survey was performed throughout the facility.

2.0 INSTRUMENTATION/CALIBRATION

The following instrumentation was used to obtain air sampling data and ventilation measurements. All instrumentation was calibrated before and after sampling and all instrumentation was operated according to the manufacturer's recommendations:

- Sper Scientific Light Meter

3.0 FINDINGS

Illumination

Illumination levels were recorded in administration offices, classrooms, drill hall, and supply room. Light measurements were below IES guidelines at the Supply Room office and storage area, 1st SG office, SM office (light fixture out), Retention NCO office (four light fixtures out), Training NCO office (one light fixture out and one with two bulbs out), Personnel office and the classrooms (six light fixtures out). The other areas tested were within IES minimum standards. See Light Readings Table at the end of this section.

Administration

Personnel perform administrative duties that consist of reading, handling and generating paper work. Computer use comprises a large portion of the working day, two to six hours per day. This continuous use of computers can, in the long run, lead to eyestrain and hand/wrist or shoulder soreness. Some of the personnel reported they have experienced either eyestrain or shoulder soreness from the use of computers for long periods of time. (See HHIM forms in attachment 1).

Motor Pool

The motor pool is located in a fenced area in the rear of the building. The motor pool includes 20 M998 HMMWV, 13 M35A2, 1 M1A1, 3,3M577A2 4 M923A2 3 M977, 4 M978, 1 M936, 1 M948E1 and 1 M1038WW. No repair services are performed on these vehicles at the armory. When repairs are needed the vehicles are taken to the OMS Shop located behind the armory.

Drill Hall

The Drill Hall is located in the center at the rear of the building. It is used primarily for drills. The Drill Hall is used to clean weapons about five times a year or when it is cold or raining. Bay door is kept open when the weapons are cleaned. At the time of the survey, a large vehicle was stored inside the Drill Hall. Personnel reported that the vehicles were used for a parade the day before and will be removed from the Drill Hall during that day.

Deactivated Indoor Firing Range

A deactivated Indoor Firing Range (IFR) was been converted into administrative offices many years ago. Personnel stated that it was "sanitized' 7-8 years ago. Six

swipe samples were taken from the IFR. None of the six samples were above the clearance level of 200ug/ft2. See table one for results.

Table 1

Sample Number	Sample Location	Results
15	Bullet backstop area	BRL
11	Master Gunner Office Area	24ug
12	1 at Train. Officer Office	BRL
13	Item 2 at Hallway	BRL
14	Back Office Wall	BRL
16	Blank	BLR

Weapons Vaults

The Calhoun Armory has a weapon storage vault located in the Supply Room. Personnel stated that accountability and issuing of weapons are performed in this area. Weapons are cleaned in the Drill Hall occasionally if it is raining or too cold, in small groups.

A/C System

Central A/C Heating units are used to cool administrative offices and classrooms and the Supply Room. Six swipe samples for Lead (Table 2) were collected from the supply air grills in the offices occupied by full time members of the Army National Guard. None of the samples were above the clearance level of 200ug/ft2.

Table 2

Sample Number	Sample Location	Results
1	Training NCO Office	BLR
2	1 SG Office	BLR
3	Personnel Service NCO Office	20ug
4	Master Gunner Office	22ug
5	Training Officer Office	24ug
6	Blank	BLR

Material Safety Data Sheets

The armory has an MSDS book. It was located on the wall at the Drill Hall. The MSDS forms mainly for household cleaners and a couple for oil cleaners. Several paint cans were kept in a locker. There was no Hazardous Materials Inventory List present.

Light Readings

Light measurements were taken in various locations throughout the facility. The results were compared to guidelines recommended by the Illuminating Engineering Society (IES). The results of the survey are shown in Table 3

Table 3

Location	Light Reading (footcandles)	IES Recommendation (footcandles)
ADO 1SG Office Non-Responsive	12-32 (Avg. 18)	50-100
ADO SM Office Non-Responsive	8-31 (Avg. 25)	50-100
ADO Commander Office (Maj. Non-Responsive	40-57 (Avg. 50)	50-100
ADO Training Officer Office	37-71 (Avg. 52)	50-100
ADO Personnel Office	26-61 (Avg. 37)	50-100
ADO Master Gunner Office	43-71 (Avg. 54)	50-100
ADO Front Office	11-64 (Avg. 41)	50-100
Classrooms	11-28 (Avg. 21)	50-100
ADO Supply Sergeant Office	22-50 (Avg. 29)	50-100
ADO Supply Room (Storage)	2-39 (Avg. 15)	20
Drill Hall	7-50 (Avg. 46)	30

Although the average light measurements taken in the Drill Hall was above IES guidelines, four light bulbs were out. Light measurements were below IES guidelines at the Supply Room office and storage area, 1st SG office, SM office (light fixture out), Retention NCO office(four light fixtures out). Also at the Training NCO office (one light fixture out and one with two bulbs out), Personnel office and the classrooms (six light fixtures out). Consideration should be given to replace burned out light fixtures and/or provide supplemental lighting in those areas that were below the recommended standard. ANSI RP7-1991.

4.REFERENCES

- Guide to Occupational Exposure 2000, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
- American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.
- National Institute for Occupational Safety and Health (NIOSH), (76-130) Technical Information, Lead Exposure and Design Considerations for Indoor Firing Ranges GPO, 1975.

- Title 29, Code of Federal Regulations (CFR). 1999, revision, Part 1910. Occupational Safety and Health Standards
- AR 40-5, Preventative Medicine, 15 October 1990.
- AR 385-10, The Army Safety Program, 23 May 1988.
- National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.
- AR 385-16, National Guard Pamphlet, Safety Guidelines for Converting Indoor Firing Ranges to Other uses.
- TB MED 503, The Army Industrial Hygiene Program, February 1985.
- Department of the Army Pamphlet (DA PAM) 40-501,27 August 1991, Hearing Conservation.
- Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

Non-Responsive

RECOMMENDATIONS

- Provide supplemental lighting in those areas that were below the recommended standards as represented in Table 3. Recommend that burned out light fixtures and light bulbs is replaced.

- Recommend that when using computers for extended periods of time, personnel should take occasional breaks and change position to minimize the possibility of eyes and/or hands/wrist injury.

- Continue to ensure that weapon maintenance and cleaning is done in a well-ventilated area. Continue to practice good personal hygiene by washing hands after handling and cleaning weapons and ammunition.

- The A/C filter should be replaced according to manufacturers' recommendation.

- A Hazardous Materials Inventory List should be written with current MSDS. A copy should be placed wherever hazardous materials are stored. MSDS book should be updated periodically. Ensure that personnel have knowledge of the location of the MSDS book, and is enrolled hazardous materials safety training.

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.

(For use of this form, see HHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ______ b. INSTALLATION Calhoun GA ARMORY c. BLDG/RM NUMBER 1SG office

d. LOCATION/CODE AA e. OPERATION/CODE ADE f. DESCRIPTION

Computer work 7 hrs/day, Tel answering,

g. MACOM/CODE NG h. SUBMACOM/CODE ______ i. SUPERVISOR Maj [redacted]

j. TELEPHONE/AUTOVON NUMBER 706 624, 1340 k. RAC ______ l. FREQUENCY (Hrs Per Day) ______

m. NO CIV(S) ______ n. NO MIL ______ o. NO CONTRACTOR(S) ______ p. NO LOC(S) ______ q. NO OTHER ______

SECTION 2. IH STAFFING DATA

a. LAB HOODS — b. VAPOR DEGREASERS — c. MAINTENANCE BAYS — d. SPRAY BOOTHS —

e. OPEN SURFACE TANKS — f. VENTILATION UNITS —

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-13-02 b. EVALUATOR (INITIA[redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	12-32 Avg 18	FC	50–100	Inadqt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
¼ FACE AIR PURIFYING			/
½ FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Computer related - vision.		
PI STRES	- Mainly mental stress from duties.		

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
Non-Responsive		C	M	Non-Responsive	

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Supervise training, Over all supervision of all enlisted personnel.
② Computer work about 7 hrs/day
③ Has had vision problems since working computers. Has prescription eye glasses about 3 mo ago.
④ Should Hold breaks when working in computers for long periods of time and have vision checked regularly.

* PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace at operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see IHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ____ b. INSTALLATION Calhoun GA ARMORY c. BLDG/RM NUMBER executive Officer / Office

d. LOCATION/CODE AA e. OPERATION/CODE A00 / f. DESCRIPTION

Executive Officer. Office in Charge

g. MACOM/CODE NG / h. SUBMACOM/CODE / i. SUPERVISOR [redacted]

j. TELEPHONE/AUTOVON NUMBER 706 624 / 1348 k. RAC ____ l. FREQUENCY (Hrs Per Day)

m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS — b. VAPOR DEGREASERS — c. MAINTENANCE BAYS — d. SPRAY BOOTHS —

e. OPEN SURFACE TANKS — f. VENTILATION UNITS —

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-13-02 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	40-57-Avg 50	FC	50-100	Adgt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED: A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
½ FACE AIR PURIFYING			/
FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
POVDT	eye strain, hand prob. Computer work	3	
PD STRESS	Mental Stress, under staffed - manning 50%	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d.

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN
Non-Responsive		F	M	Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Executive officer
② about 5 hrs computer work / day.
③ Eye Strain from computer use.
④ Added stress ⑤ understaffed at facility
⑤ Should take breaks when working in computer for long periods of time

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identificatio of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace c this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of

Signature

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see IHIMS User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Calhoun GA Armory c. BLDG/RM NUMBER Training Office

d. LOCATION/CODE AA / _____ e. OPERATION/CODE ADO / _____ f. DESCRIPTION _____

Training Officer; Complete with about 7 to/day Answers Tel:

g. MACOM/CODE ANG / _____ h. SUBMACOM/CODE _____ / _____ i. SUPERVISOR Maj [redacted]

j. TELEPHONE/AUTOVON NUMBER 706 624 / 1340 k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-13-02 b. EVALUATOR (INITIAL) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	97-71 ; Avg 52	FC	50-100	Adq+

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
HALF FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
PAPR FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCT-TIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Daily use of computers for long periods of time	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d.

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN
CPT Non-Responsive		B	M	Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Training officer
② Computer Works about 7 hrs/day
③ No health problems related to computer work
④ Should take breaks when working in computers for long periods of time.

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identificatio
of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace c
this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely processing of

Signature

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(For use of this form, see IHHM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. APLOC ____ b. INSTALLATION Calhoun GA ARNORY c. BLDG/RM NUMBER Supply Room
d. LOCATION/CODE SA / e. OPERATION/CODE SAH f. DESCRIPTION
Supply - about 6 hrs/Day.
g. MACOM/CODE NG / h. SUBMACOM/CODE / i. SUPERVISOR Maj Non-Responsive
j. TELEPHONE/AUTOVON NUMBER 706 629 / 1340 k. RAC ____ l. FREQUENCY (Hrs Per Day) ____
m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS ____ b. VAPOR DEGREASERS ____ c. MAINTENANCE BAYS ____ d. SPRAY BOOTHS ____
e. OPEN SURFACE TANKS ____ f. VENTILATION UNITS ____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-13-07 b. EVALUATOR (INITIALS) Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting				
Supply - office	22-58 ; Avg 29	FC	50-100	Inadqt
Supply - Storage	2-39 ; Avg 15	FC	20	Inadqt

i. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

j. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
HOOD FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

k. 2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCT-TIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
POVDT	Daily use of computers for long periods of time		
POLIFTING	Heavy lifting		
PO FOOT HAZ	Falling of heavy objects	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d.

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN
Non-Responsive			M	Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Supply Sergeant
② Computer work about 3-4 hr/day
③ No health problem reported from computer work
④ Heavy lifting all the time

PRIVACY ACT STATEMENT

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Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of

Signature

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(For use of this form, see IHRIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. APLOC _____ b. INSTALLATION Calhoun GA ARMORY c. BLDG/RM NUMBER SGT Maj 02

d. LOCATION CODE GA e. OPERATION CODE ADO f. DESCRIPTION

Non-Professional Technician Senior Adm. for BTH. Manage BTH N

g. MACOM/CODE NG h. SUBMACOM/CODE _____ i. SUPERVISOR [redacted] Non-Responsive

j. TELEPHONE/AUTOVON NUMBER 706 624, 1340 k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-13-07 b. EVALUATOR (INITIAL [redacted] Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	8-31 Avg. 25	FC	50-100	Inadeq

i. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

j. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
½ FACE AIR PURIFYING			
FACE AIR PURIFYING			
FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

k. GLOVES	R/A	l. EYES/FACE	R/A	m. HEARING	R/A	n. BODY	R/A	o. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCT-TIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Daily use of computers for long periods of time	3	
Stress	Working to do all things that have to be done	5	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d.

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN
Non-Responsive		L	M	Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Had been 3 yrs at this job. Before at Dalton as Readiness NCO
② Computer work about 6 hr/day
③ Soreness at shoulders after working in computer for long periods of time
④ Should & elbow breaks when working in computer for long times
⑤ Mental stress & worrying about things that has to be done.

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Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of

Signature

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(For use of this form, see IHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ______ b. INSTALLATION Calhoun GA Armory c. BLDG/RM NUMBER Training Office

d. LOCATION/CODE AA e. OPERATION/CODE ADO f. DESCRIPTION

Master Hammer, AH) Training. Computer work 8 hr/Day.

g. MACOM/CODE NG h. SUBMACOM/CODE ______ i. SUPERVISOR Maj [redacted]

j. TELEPHONE/AUTOVON NUMBER 706 624 1340 k. RAC ______ l. FREQUENCY (Hrs Per Day) ______

m. NO CIV(S) ______ n. NO MIL ______ o. NO CONTRACTOR(S) ______ p. NO LOC(S) ______ q. NO OTHER ______

SECTION 2. IH STAFFING DATA

a. LAB HOODS ______ b. VAPOR DEGREASERS ______ c. MAINTENANCE BAYS ______ d. SPRAY BOOTHS ______

e. OPEN SURFACE TANKS ______ f. VENTILATION UNITS ______

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-13-02 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	43-71 FC: Avg 54	FC	50 - 100	Adq T

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
¼ FACE AIR PURIFYING			/
½ FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PD VDT	Daily use of Computer for long periods of time	3	
PDLIFTING	Heavy lifting	3	
PDFOOTHAZ	of Heavy items on Foot.	3	

BEST AVAILABLE COPY

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d.

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN
Non-Responsive		M	M	Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Master Sergeant
② Computer work & typing
③ Gets tired after extended use of computer
④ No other health problems
⑤ Should take breaks when working in computer for long periods of time.

PRIVACY ACT STATEMENT

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Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of

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(For use of this form, see IHHM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Calhoun GA ARNG c. BLDG/RM NUMBER Personnel Office

d. LOCATION/CODE _____ / e. OPERATION/CODE _____ / f. DESCRIPTION Personnel Service NCO. Administrative. Computer work 6 hrs/day

g. MACOM/CODE NG / h. SUBMACOM/CODE _____ / i. SUPERVISOR Maj Non-Responsive

j. TELEPHONE/AUTOVON NUMBER 706 624 1340 k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS 5 d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-13-07 b. EVALUATOR (INITIALS) Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	36-61 FC Avg 37	PC	50-100	Inadq

i. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
HALF FACE AIR PURIFYING			/
FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
POVDT	Daily use of computers for long periods of time		
Stress	Mental Stress -		

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d.

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN
SSG Non-Responsive		M	M	Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

1. Personnel Service 2 CP
2. Computer work about 6 hrs/day.
3. Eyestrain after working in computer when work in computer for long periods.
4. No other health problems
5. Should take breaks when working in computers for long periods of time.

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as identificatio
of this information is to identify and monitor data relating each UA civilian employee exposed to a hazardous workplace c
this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of

Signature

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see IHIM User's Instructions.)

BEST AVAILABLE COPY

SECTION 1. DEMOGRAPHIC DATA

a. APLOC ____ b. INSTALLATION Calhoun, GA Armory c. BLDG/RM NUMBER Training Office

d. LOCATION/CODE AA / ____ e. OPERATION/CODE A-D / ____ f. DESCRIPTION

Training NCO, Computer work 7 hrs/day, Answer Tel.

g. MACOM/CODE NG / ____ h. SUBMACOM/CODE ____ / ____ i. SUPERVISOR Maj [redacted]

j. TELEPHONE/AUTOVON NUMBER 706 624-1340 k. RAC ____ l. FREQUENCY (Hrs Per Day) ____

m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS — b. VAPOR DEGREASERS — c. MAINTENANCE BAYS — d. SPRAY BOOTHS —

e. OPEN SURFACE TANKS — f. VENTILATION UNITS —

SECTION 3. SURVEY DATA

a. SURVEY DATE 10-13-02 b. EVALUATOR (INITIAL [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	41-64 Avg 41	FC	50-100.	Inadqt

h. PERSONAL PROTECTIVE EQUIPMENT (R-REQUIRED; A-AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
½ FACE AIR PURIFYING			/
¼ FACE AIR PURIFYING	M-40 M-42		/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PD VDT	Related to computer work - tickles		

BEST AVAILABLE COPY

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d.

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN
Non-Responsive		C	M	Non-Responsive

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Training NCO - Training, Arbor schedules,
② computer work - 7 hr/day
③ Occasional soreness at shoulders
④ No other problems reported
⑤ Should take breaks when using computers for long periods.

PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identificatio of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace c this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of

Signature

Analytical Environmental Servs, Inc.

Date: 1/10/03

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT:	Non-Responsive	**Lab Order:**	0301098
Project:	Calhoun GA Armory	**Date Received:**	1/6/03 4:05:00 P
Project No:	Calhoun GA Ar	**Matrix:**	Wipe
PO No:		**Analyst:**	MM

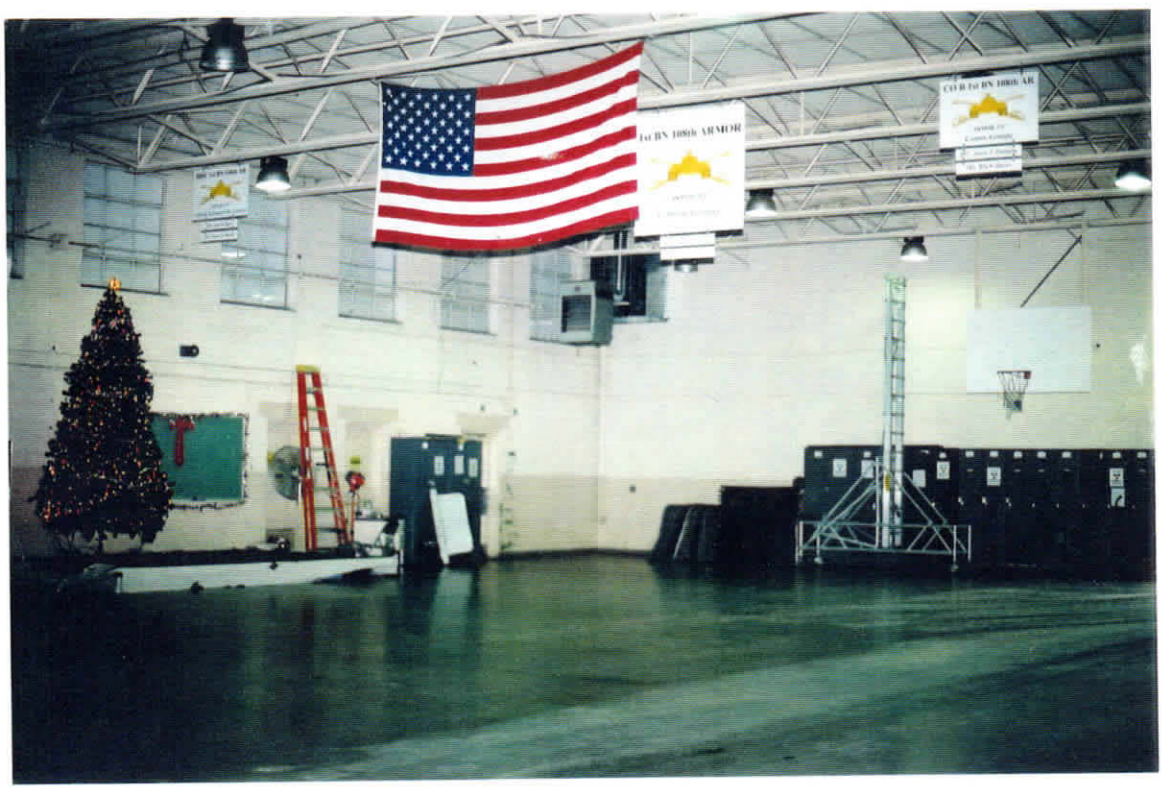
Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0301098-001A	1	BRL	µg, Total	2.83	1	12/13/02	1/7/03
0301098-002A	2	BRL	µg, Total	2.83	1	12/13/02	1/7/03
0301098-003A	3	20.0	µg, Total	2.83	1	12/13/02	1/7/03
0301098-004A	4	22.0	µg, Total	2.83	1	12/13/02	1/7/03
0301098-005A	5	24.0	µg, Total	2.83	1	12/13/02	1/7/03
0301098-006A	6	BRL	µg, Total	2.83	1	12/13/02	1/7/03
0301098-007A	11	24.0	µg, Total	2.83	1	12/13/02	1/7/03
0301098-008A	12	BRL	µg, Total	2.83	1	12/13/02	1/7/03
0301098-009A	13	BRL	µg, Total	2.83	1	12/13/02	1/7/03
0301098-010A	14	BRL	µg, Total	2.83	1	12/13/02	1/7/03
0301098-011A	15	BRL	µg, Total	2.83	1	12/13/02	1/7/03
0301098-012A	16	BRL	µg, Total	2.83	1	12/13/02	1/7/03

Qualifiers: MDL - Method Detection Limit; DF - Dilution Factor
ND - Not Detected at the Reporting Limit

Calhoun, GA Armory

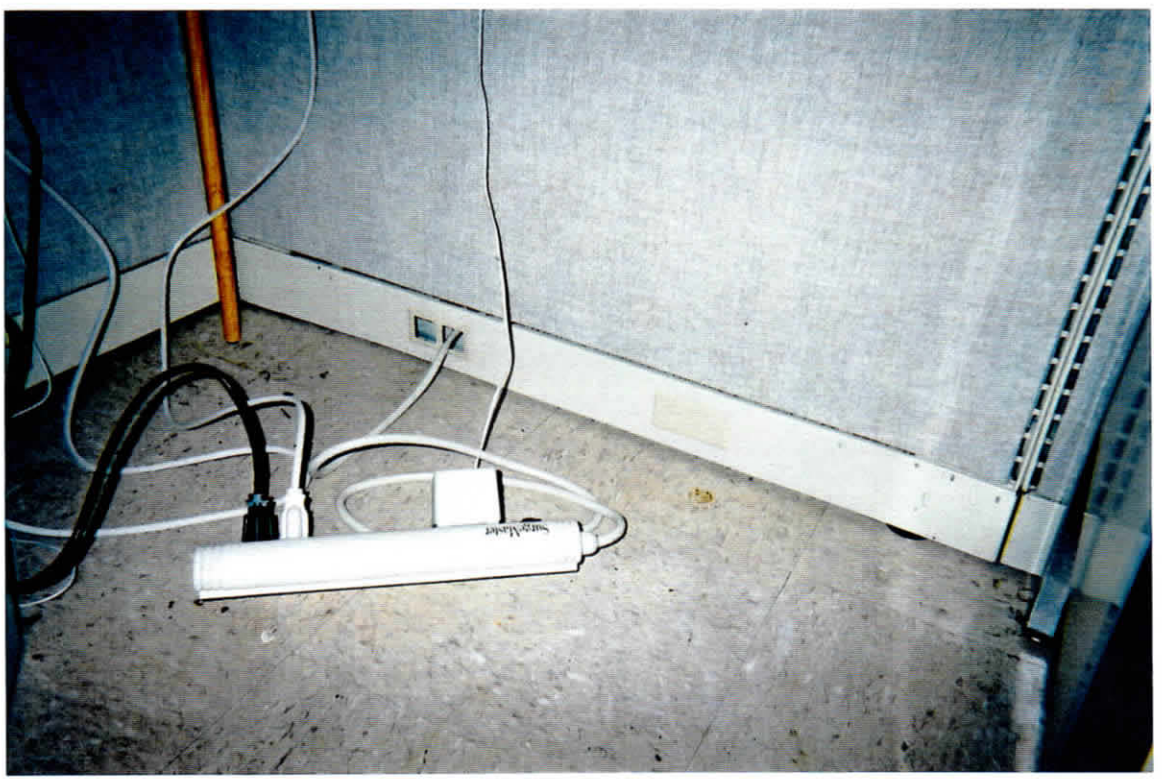
A/C Supply Grills

Drill Hall



IFR Sampling Areas

IFR Sampling Areas

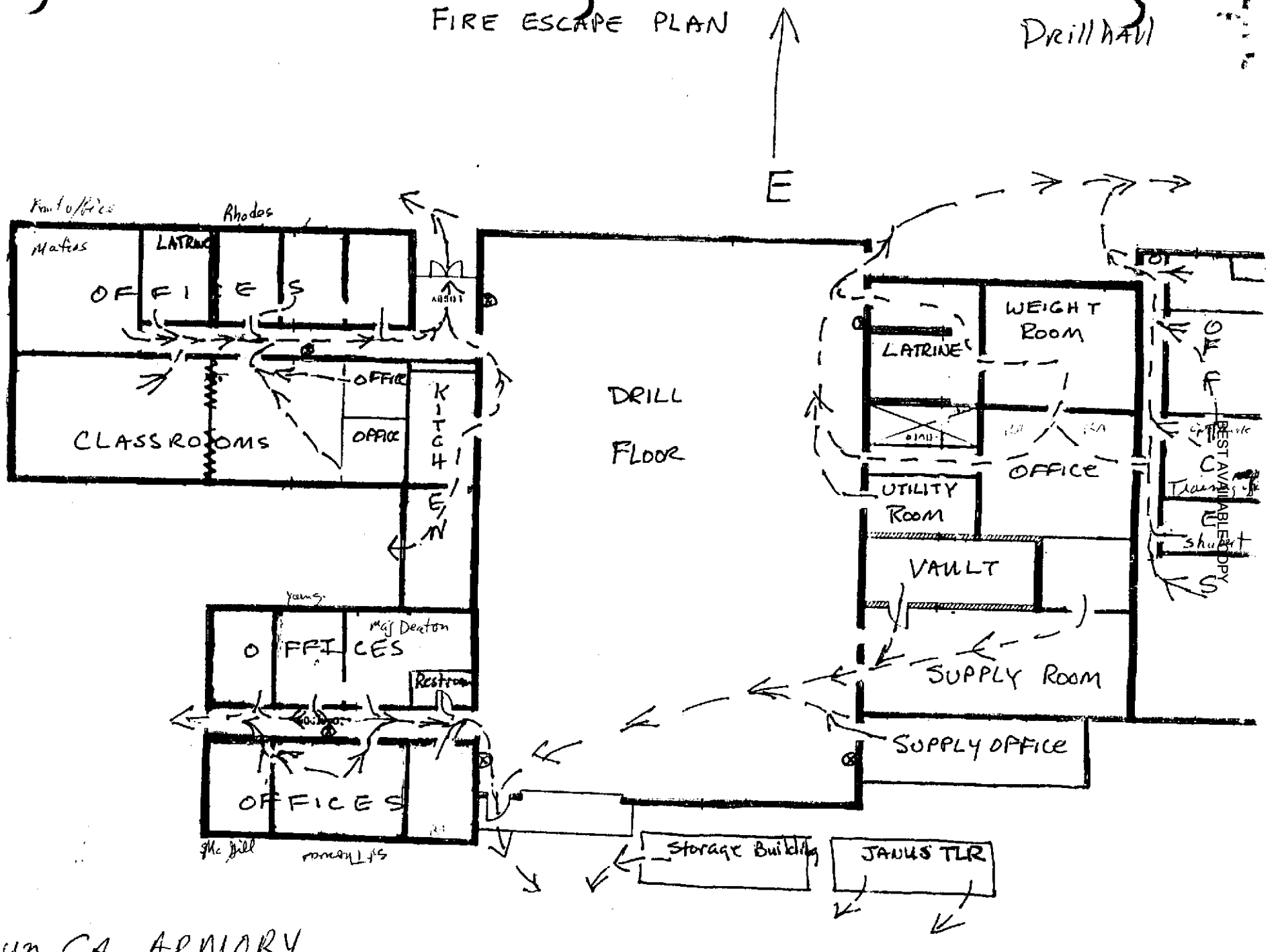


Motor Pool

MSDS Forms

Safety Alert Signs

FIRE ESCAPE PLAN



Calhoun, GA ARMORY

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARCOV-SEIH

August 19, 2008

MEMORANDUM THRU LT. Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr Non-Responsive, Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Covington National Guard Armory, Lead Sampling Survey, Covington, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the Covington, Georgia Armory. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On July 23, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former Covington Armory IFR was filled with tables, chairs and miscellaneous office furniture. At the time of the site visit, it appeared that the former IFR was converted to a classroom/training room for the armory. General construction was observed as carpeted floors, drop ceiling with 2 feet by 2 feet acoustical panels, with painted cinder-block walls.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Ghost Wipes™ are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 10 samples were collected including three from the former location of the bullet stop, right and left walls for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results did not indicate the presence of lead concentrations above the IFR post cleaning standard of 200micrograms per feet squared ($\mu g/ft^2$). These sampling results indicate that any previous decontamination activities appear to be adequate to remove the lead dust from the former range at acceptable levels. It should be noted that the sampling activities were completed in a former IFR which has undergone conversion/renovation. Areas above the drop ceiling were not accessed

SUBJECT: Lead Sampling Survey, Covington Armory, Covington, Georgia.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
COV-01	Upper Wall, Former Bullet Stop	BRL[2]
COV-02	Middle Wall, Former Bullet Stop	BRL
COV-03	Lower Wall, Former Bullet Stop	BRL
COV-04	Upper Right Wall	BRL
COV-05	Middle Right Wall	BRL
COV-06	Lower Right Wall	BRL
COV-07	Lower Left Wall	BRL
COV-08	Middle Left Wall	BRL
COV-09	Upper Left Wall	BRL
COV-10	Field Blank	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report including the Chain of Custody records are attached for review.

4. Recommendations.

a. In as much as the former IFR at the Covington Armory has been converted to a training room, it appears that lead dust is not present at concentrations above the NGB standard. It should be noted that the sampling activities were limited to exposed areas observed inside the former IFR.

b. In accordance with NGB Pamphlet 420-15, the walls continue lead testing on an annual basis to verify that lead has not migrated from the substrate. The annual sampling shall include areas of the ceiling, walls and floors. Following the annual sampling event, if lead concentrations are less than 200 $\mu g/ft^2$, the walls of the former IFR shall be coated with a lead dust encapsulant. Conventional paint can not be used as an encapsulant. It should be noted that the referenced guidance document does not address coating the ceiling. However, it is recommended that the ceiling also be coated to prevent potential lead migration from occurring.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

NGB-ARCOV-SEIH August 19, 2008
SUBJECT: Lead Sampling Survey, Covington Armory, Covington, Georgia.

CF: State Safety Office, GA, ATTN: MAJ Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 01, 2008

Non-Responsive

National Guard Bureau Region-South IH
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Covington Armory

Order No.: 0807I15

Dear Non-Responsive

Analytical Environmental Services, Inc. received 10 samples on 7/25/2008 12:45:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 4 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

AES
ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 [partial] ntial Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0807I15
Date: 7/25/08 Page 1 of 1

COMPANY: Region South FH Office
ADDRESS: 510 Plaza Dr, Ste 153 College Park, GA
PHONE: 4/559-4174
FAX: 4/559 4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No # of Containers
1	COV-01	7/23/08		X		wipe		1'x1' sample	1
2	COV-02			X		"			1
3	COV-03			X		"			1
4	COV-04			X		"			1
5	COV-05			X		"			1
6	COV-06			X		"			1
7	COV-07			X		"			1
8	COV-08			X		"			1
9	COV-09			X		"		1'x1' sample	1
10	COV-10	7/23/08		X		wipe			1
11									
12									
13									
14									

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted]	7/25/08/1230	[redacted]	7/25/08 1235
2		2	
3		3	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
(CLIENT) FedEx UPS MAIL COURIER GREYHOUND OTHER ____

PROJECT INFORMATION
PROJECT NAME: Covington Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: ____ PO#: ____

RECEIPT
Total # of Containers: 10

Turnaround Time Request
- (●) Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other ____

STATE PROGRAM (if any): ____
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA Army National Work Order Number 0807I15

Checklist completed by [redacted] 7/25/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* [redacted] 7/25/08 Yes ✓ No __

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

Analytical Environmental Services, Inc.

Date: 8/5/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Covington Armory
Delivery Order:
PO No:

Lab Order: 0807I15
Date Received: 7/25/2008 12:45 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0807I15-001A	COV-01	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-002A	COV-02	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-003A	COV-03	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-004A	COV-04	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-005A	COV-05	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-006A	COV-06	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-007A	COV-07	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-008A	COV-08	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-009A	COV-09	BRL	µg/ft²	20	1	7/23/2008	7/29/2008	JY
0807I15-010A	COV-10	BRL	µg, Total	20	1	7/23/2008	7/29/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

Photo 1: View of the wall adjacent to the former bullet trap location.

Photo 2: View of the carpeted flooring observed inside the former IFR.

Photo 3: View of the drop ceiling with acoustical panels.

Photo 4: View of right wall with painted surface inside the former IFR.

Project Name: Covington, Georgia Armory

Date Photos Taken: 23 July 2008

Photo 5: View of left wall of the former IFR and carpeted flooring.

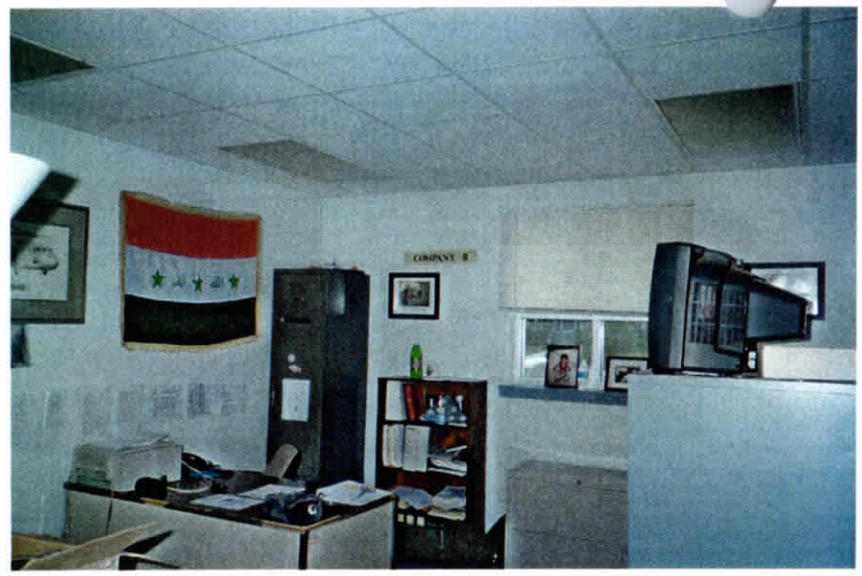


Photo 6: View of the interior of a converted office inside the former IFR.

Project Name: Covington, Georgia Armory

Date Photos Taken: 23 July 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-IHSE 22 May 2006

MEMORANDUM THRU MAJ Non-Responsive, Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: ATTN: Captain Non-Responsive Company C, 1st Battalion 108th Armor, 709 West Crawford St., Dalton, Georgia 30720-4130

SUBJECT: Industrial Hygiene follow-up sampling for Lead at the Dalton National Guard Armory

1. References.

a. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

b. AR 40-5, Preventive Medicine, 22 July 2005.

c. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

d. AR 385-10, 29 February 2000, Army Safety Program.

f. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

g. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

h. Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29 Code of Federal Regulation (CFR), Part 1910.1025 Lead.

2. General.

a. At the request of Mr. Non-Responsive of the National Guard Region South Industrial Hygiene Office, industrial hygiene follow-up sampling for Lead was conducted 28 April 2006. This sampling was done as a result of the Lead sample results taken during the baseline survey done on 29 November 2005.

b. Ms. Non-Responsive Industrial Hygiene Technician, of the Southeast Regional IH Office conducted the sampling.

3. Findings.

a. Samples were taken in the Old Indoor Firing Range along the left side of the Armory. The Indoor Firing Range was deactivated around 1960. This area has been made into several different functioning areas, which include storage, and weight room. The backstop was located in the area where the room has been cleared now, while the firing line was located where the open classroom/storage is now.

b. Eighteen samples were taken throughout the Old Indoor Firing Range. Results ranged from Below Reporting Limit (BRL) to 242µg/ft².

c. The floors in all the different parts of the Old Indoor Firing Range and the general hallway showed Lead levels above the limit of 40µg/ft².

d. The highest level was in hallway outside the Family Support Room door. This room is being used to store items for Family Support, at the time it was locked.

e. Lead Wipe Sample Results:

Sample Number	Micrograms (µg) Of Lead per Square Foot	Sample Area
0428DAL01	48	Front of room middle of floor by vault in Old IFR
0428DAL02	BRL	First entrance to room, middle of floor at entrance to Old IFR
0428DAL03	72	Floor directly under center of first window in Old IFR
0428DAL04	36	Floor under desk which is to the right of the first window in Old IFR
0428DAL05	BRL	Floor approximately 5 ft in front of desk in Old IFR
0428DAL06	117	Top of file cabinet along right wall behind desk in Old IFR
0428DAL07	BRL	Top of small table approximately 12 ft from first entrance along left wall in Old IFR
0428DAL08	38	Middle of floor in first section of room directly behind long wooden bookcase in Old IFR
0428DAL09	61	Top of file cabinet left of the second window in Old IFR
0428DAL10	124	Footrest of Supercat shoulder press weight machine between 2nd and 3rd windows in Old IFR
0428DAL11	37	Floor in corner of room where the panel wall and right wall meet, under the 3rd window in Old IFR
0428DAL12	64	Floor under fire extinguisher along left wall in Old IFR
0428DAL13	242	Floor in front of Family Support Room, middle of hallway in Old IFR
0428DAL14	87	Floor in front of 2 lockers under windows in Recruiters storage room in Old IFR
0428DAL15	54	Floor at middle of entrance to room, approximately 2 ft back from door in Old IFR

0428DAL16	44	Floor in front right corner of cleared room in back of Old IFR
0428DAL17	30	Floor in middle of cleared room in back of Old IFR
0428DAL18	22	Floor in back left corner of cleared room in back of Old IFR
0428DAL19	BRL	Blank
0428DAL20	BRL	Blank

e. Attached: Sample results, diagram of where samples were taken and pictures.

4. Recommendations.

a. Re-clean floors and items stored in converted Indoor Firing Range of lead following NG PAM's 385-15 and 385-16. Keep in mind that EPA and your state may have lead reduction levels lower than the levels recommended in the 385-15 and 385-16.

b. Use the following report to help in designation of areas of concern and the cleaning of said areas.

c. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse, the FMO Environmental Office and the Occupational Safety and Health Office for technical guidance.

5. If additional information is needed about this report, please contact Non-Responsive Non-Responsive Industrial Hygiene Technician, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: State Safety Office, GA, ATTN: Mrs. Non-Responsive Occupational Health Manager, 1648 Perry Street, Building 831, Dobbins ARB, Georgia, 30069.

CF: State Safety Office, GA, ATTN: LTC Non-Responsive Safety and Occupational Health Manager, P.O. 5019 Highway 42, Ellenwood, GA 30294.

General Photo of Old IFR

0428DAL01 Front of room middle of floor by vault in Old IFR

0428DAL02 First entrance to room, middle of floor at entrance to Old IFR

0428DAL03 Floor directly under center of first window in Old IFR

0428DAL04 Floor under desk which is to the right of the first window in Old IFR

0428DAL05 Floor approximately 5 ft in front of desk in Old IFR

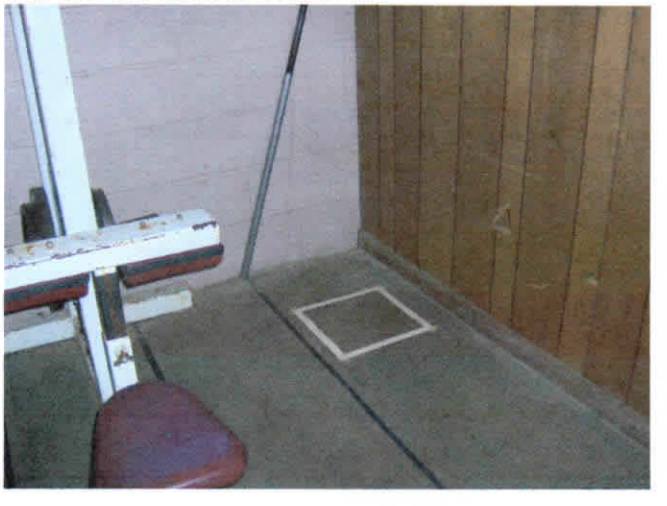
0428DAL07 Top of small table approximately 12 ft from first entrance along left wall in Old IFR

0428DAL08 Middle of floor in first section of room directly behind long wooden bookcase in Old IFR

0428DAL09 Top of file cabinet left of the second window in Old IFR

0428DAL10 Footrest of Supercat shoulder press weight machine between 2nd and 3rd windows in Old IFR

0428DAL11 Floor in corner of room where the panel wall and right wall meet, under the 3rd window in Old IFR



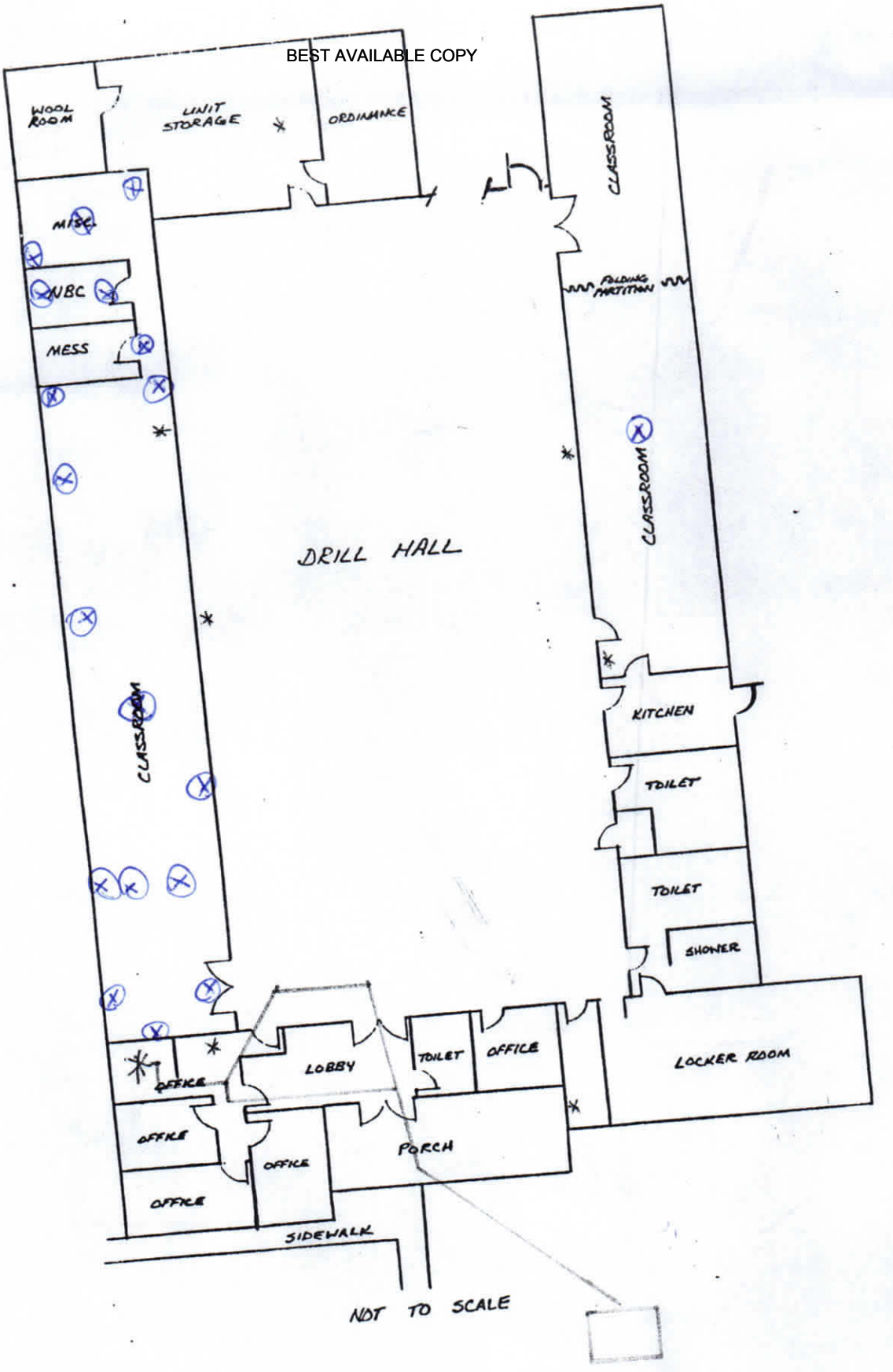
0428DAL12 Floor under fire extinguisher along left wall in Old IFR

0428DAL13 Floor in front of Family Support Room, middle of hallway in Old IFR

Recruiting Storage

0428DAL14 Floor in front of 2 lockers under windows in Recruiters storage room in Old IFR

0428DAL15 Floor at middle of entrance to room, approximately 2 ft back from door in Old IFR



Analytical Environmental Services, Inc.

Date: 5/9/2006

TOTAL LEAD IN WIPE SAMPLES
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Dalton Armory
Delivery Order: 060328TNSMY01
PO No:

Lab Order: 0605233
Date Received: 5/3/2006 1:35 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0605233-001A	0428DAL01	48	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-002A	0428DAL02	BRL	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-003A	0428DAL03	72	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-004A	0428DAL04	36	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-005A	0428DAL05	BRL	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-006A	0428DAL06	117	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-007A	0428DAL07	BRL	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-008A	0428DAL08	38	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-009A	0428DAL09	61	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-010A	0428DAL10	124	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-011A	0428DAL11	37	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-012A	0428DAL12	64	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-013A	0428DAL13	242	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-014A	0428DAL14	87	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-015A	0428DAL15	54	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-016A	0428DAL16	44	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-017A	0428DAL17	30	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-018A	0428DAL18	22	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-019A	0428DAL19	BRL	µg, Total	20	1	4/28/2006	5/5/2006	VA
0605233-020A	0428DAL20	BRL	µg, Total	20	1	4/28/2006	5/5/2006	VA

Qualifiers: BRL Not Detected at the Reporting Limit DF Dilution Factor

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVS-SEIH 11 April 2006

MEMORANDUM THRU MAJ Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: ATTN: Captain Non-Responsive Detachment 1 HHC, 1st Battalion 108th Armor, 6784 Church St., Douglasville, Georgia 30133

SUBJECT: Industrial Hygiene follow-up sampling for Lead at the Douglasville National Guard Armory

1. References.

a. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

b. AR 40-5, Preventive Medicine, 22 July 2005.

c. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

d. AR 385-10, 29 February 2000, Army Safety Program.

f. TB MED 503, The Army Industrial Hygiene Program, 30 October 2000.

g. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

h. Industrial Ventilation, 25th, 2004, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29 Code of Federal Regulation (CFR), Part 1910.1025 Lead.

2. General.

a. At the request of Mr. Non-Responsive of the National Guard Region South Industrial Hygiene Office, industrial hygiene follow-up sampling for Lead was conducted 15 March 2006. This sampling was done as a result of the Lead sample results taken during the baseline survey done on 7 December 2005.

b. Ms. Non-Responsive Industrial Hygiene Technician, of the Southeast Regional IH Office conducted the sampling.

3. Findings.

a. Samples were taken in the Old Indoor Firing Range along the left side of the Armory. The Indoor Firing Range was deactivated around 1970. This area has been made into several different functioning areas, which include offices, storage, and weight room. The backstop was located in the area where the weight room is now, while the firing line was located where the Maintenance/Transportation room is now.

b. Twenty-eight samples were taken throughout the Old Indoor Firing Range. Results ranged from Below Reporting Limit (BRL) to 11300µg/ft².

c. The floors of three of the five rooms: Storage/Weight Room, NBC Room, and Maintenance/Transportation Room and the general hallway showed Lead levels above the limit of 40µg/ft².

d. The highest levels were found in the Maintenance/Transportation room. This room is being used to store paper products that are given out for recruitment purposes.

e. Lead Wipe Sample Results:

Sample Number	Micrograms (µg) Of Lead per Square Foot	Sample Area
0315DOUG01	23	Top shelf of desk along back wall in storage room next to door in old IFR where backstop was located.
0315DOUG02	365	Floor under desk along back wall in storage room next to door in old IFR where backstop was located.
0315DOUG03	BRL	Desk surface on second desk along back wall in storage room in old IFR where backstop was located.
0315DOUG04	160	Floor under Bowflex work out equipment in storage room in old IFR.
0315DOUG05	44	Top of stereo located along wall between storage room and NBC room in old IFR.
0315DOUG06	174	Window sill in storage room in old IFR.
0315DOUG07	49	Foot stand of scale in storage room along wall with drill hall in old IFR.
0315DOUG08	62	Floor in hallway of storage room in old IFR.
0315DOUG09	43	Top of wrapped/folded up tent in NBC room in old IFR.
0315DOUG10	22	Area in file storage cabinet, 3rd shelf, in NBC room in old IFR.
0315DOUG11	441	Floor in back left corner of NBC room in old IFR.
0315DOUG12	129	Wooden desk turned on its side on top of metal desk along right wall in back right corner of NBC room in old IFR.
0315DOUG13	48	Floor at entrance to NBC room inside the room in old IFR.
0315DOUG14	93	Hallway floor along brick wall across from NBC room in old IFR.

0315DOUG15	BRL	Top shelf of metal book case in front left corner of State Defense room in old IFR.
0315DOUG16	BRL	Top of scanner that is sitting on top of black file cabinet in State Defense room in old IFR.
0315DOUG17	22	Floor in back left corner under metal desk in State Defense room in old IFR.
0315DOUG18	33	Floor in middle of State Defense room in old IFR.
0315DOUG19	23	Floor tile in back left corner of Scout Platoon room in old IFR.
0315DOUG20	37	Floor tile in back right corner of Scout Platoon room in old IFR.
0315DOUG21	BRL	Floor tile in middle of Scout Platoon room in old IFR.
0315DOUG22	BRL	Cabinet lying on side, in front left corner of Scout Platoon room in old IFR.
0315DOUG23	2000	Back left corner floor of Maintenance/Transportation room in old IFR where firing line was located.
0315DOUG24	11300	Back right corner floor of Maintenance/Transportation room in old IFR where firing line was located.
0315DOUG25	512	Middle of floor of Maintenance/Transportation room in old IFR where firing line was located.
0315DOUG26	32	Top of plastic tub on floor in Maintenance/Transportation room in old IFR where firing line was located.
0315DOUG27	BRL	Desk surface outside Maintenance/Transportation room in old IFR.
0315DOUG28	41	Hallway floor outside Scout Platoon door in old IFR
0315DOUG29	BRL	Blank
0315DOUG30	BRL	Blank

e. Attached: Sample results, diagram of where samples were taken and pictures.

4. Recommendations.

a. Clean converted Indoor Firing Range (Supply/Storage room) of lead following NG PAM's 385-15 and 385-16. Keep in mind that EPA and your state may have lead reduction levels lower than the levels recommended in the 385-15 and 385-16.

b. To execute your responsibilities in correcting all deficiencies, coordinate with the Occupational Health Nurse, the FMO Environmental Office and the Occupational Safety and Health Office for technical guidance.

5. If additional information is needed about this report, please contact [redacted] Non-Responsive, Industrial Hygiene Technician, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: NBG-AVN-SH

CF: State Safety Office, GA, ATTN: Mrs. Non-Responsive Occupational Health Manager, 1648 Perry Street, Building 831, Dobbins ARB, Georgia, 30069.

CF: State Safety Office, GA, ATTN: LTC Non-Responsive Safety and Occupational Health Manager, P.O. 5019 Highway 42, Ellenwood, GA 30294.

Analytical Environmental Services, Inc.

Date: 3/27/2006

TOTAL LEAD IN WIPE SAMPLES
N7082

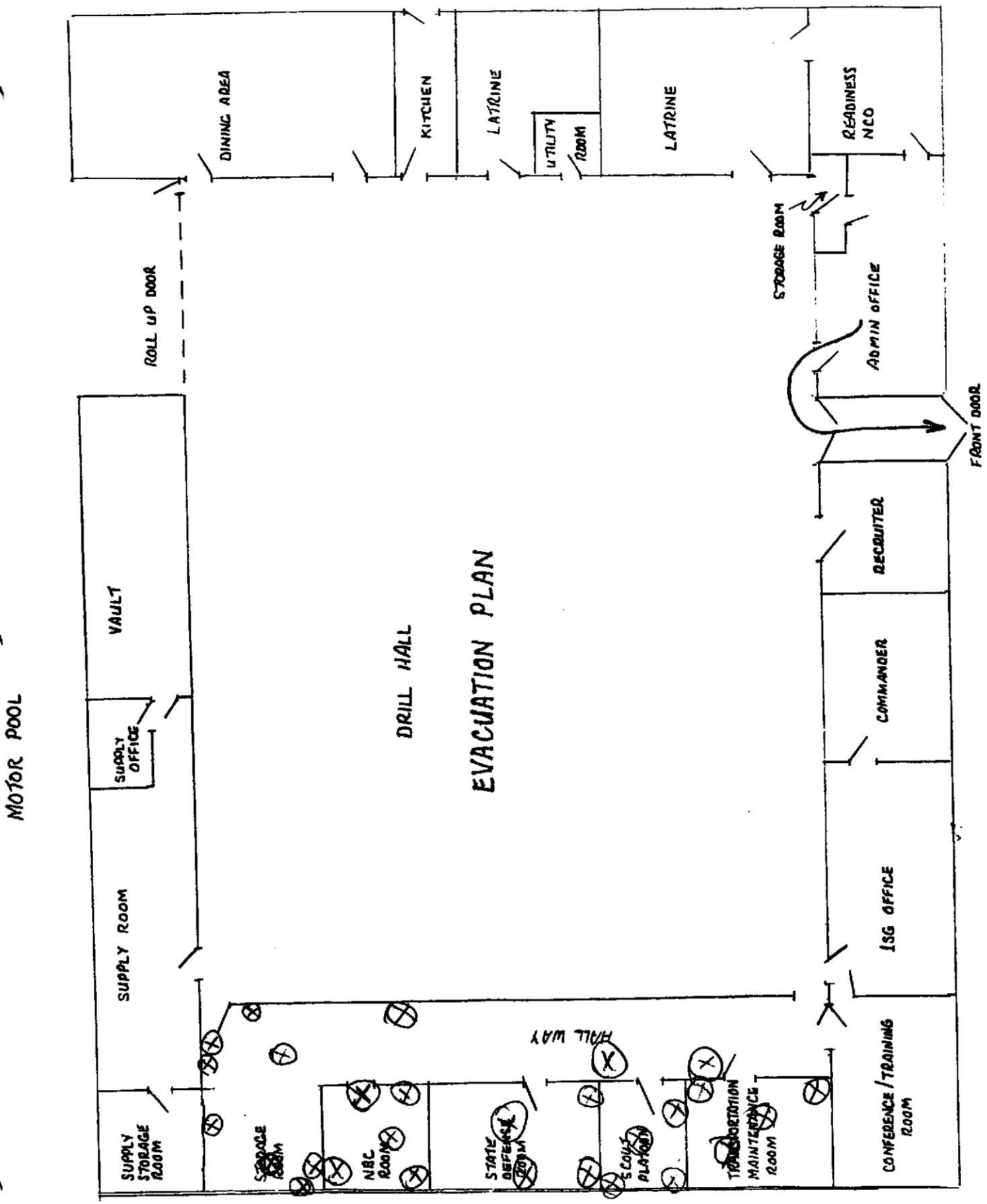
CLIENT: National Guard Bureau Region-South IH
Project: Armory, Douglasville
Delivery Order: LDNC BLMN 0206
PO No:

Lab Order: 0603A57
Date Received: 3/17/2006 2:00 PM
Matrix: Wipe

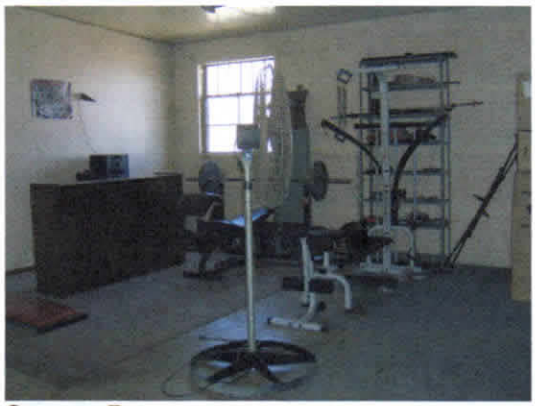
Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0603A57-001A	0315DOUG01	23	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-002A	0315DOUG02	365	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-003A	0315DOUG03	BRL	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-004A	0315DOUG04	160	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-005A	0315DOUG05	44	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-006A	0315DOUG06	174	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-007A	0315DOUG07	49	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-008A	0315DOUG08	62	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-009A	0315DOUG09	43	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-010A	0315DOUG10	22	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-011A	0315DOUG11	441	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-012A	0315DOUG12	129	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-013A	0315DOUG13	18	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-014A	0315DOUG14	93	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-015A	0315DOUG15	BRL	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-016A	0315DOUG16	BRL	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-017A	0315DOUG17	22	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-018A	0315DOUG18	33	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-019A	0315DOUG19	23	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-020A	0315DOUG20	37	µg, Total	20	1	3/15/2006	3/23/2006	VA
0603A57-021A	0315DOUG21	BRL	µg, Total	20	1	3/15/2006	3/22/2006	VA
0603A57-022A	0315DOUG22	BRL	µg, Total	20	1	3/15/2006	3/22/2006	VA
0603A57-023A	0315DOUG23	2000	µg, Total	42	2.08	3/15/2006	3/22/2006	VA
0603A57-024A	0315DOUG24	11300	µg, Total	196	9.8	3/15/2006	3/22/2006	VA
0603A57-025A	0315DOUG25	512	µg, Total	20	1	3/15/2006	3/22/2006	VA
0603A57-026A	0315DOUG26	32	µg, Total	20	1	3/15/2006	3/22/2006	VA
0603A57-027A	0315DOUG27	BRL	µg, Total	20	1	3/15/2006	3/22/2006	VA
0603A57-028A	0315DOUG28	41	µg, Total	20	1	3/15/2006	3/22/2006	VA
0603A57-029A	0315DOUG29	BRL	µg, Total	20	1	3/15/2006	3/22/2006	VA
0603A57-030A	0315DOUG30	BRL	µg, Total	20	1	3/15/2006	3/22/2006	VA

Qualifiers: BRL - Not Detected at the Reporting Limit
DF - Dilution Factor

Results are blank corrected where applicable



PICTURES



Storage Room

0315DOUG03 - Desk surface on second desk along back wall in storage room

0315DOUG01 - Top shelf of desk along back wall in storage room next to door

0315DOUG04 - Floor under Bowflex work out equipment in storage room

0315DOUG02 - Floor under desk along back wall in storage room next to door

0315DOUG05 - Top of stereo located along wall between storage room and NBC room

0315DOUG06 - Window sill in storage room

NBC Room

0315DOUG07 - Foot stand of scale in storage room along wall with drill hall

0315DOUG09 - Top of wrapped/folded up tend in NBC room

0315DOUG08 - Floor in hallway of storage room

0315DOUG10 - Area in file storage cabinet, 3rd shelf in NBC room next to door

0315DOUG11 - Floor in back left corner of NBC room

0315DOUG14 - Hallway floor along brick wall across from NBC room

0315DOUG12 - Wooden desk turned on its side on top of a metal desk along right wall in back right corner of NBC room

State Defense Room

0315DOUG13 - Floor at entrance to NBC room, inside the room

0315DOUG15 - Top shelf of metal book case in front left corner of State Defense room

0315DOUG16 - Top of scanner this is sitting on top of black file cabinet in State Defense room

0315DOUG17 - Floor in back left corner under metal desk in State Defense room

0315DOUG18 - Floor in middle of State Defense room

Scout Platoon room

0315DOUG19 - Floor tile in back left corner of Scout Platoon room

0315DOUG20 - Floor tile in back right corner of Scout Platoon room

0315DOUG21 - Floor tile in middle of Scout Platoon room

0315DOUG23 - Back left corner floor of Trans/Maint room

0315DOUG22 - Top of cabinet laying on side, in front left corner of Scout Platoon room

0315DOUG24 - Back right corner floor of Trans/Maint room

Transportation/Maintenance Room

0315DOUG25 - Middle of floor in Trans/Maint room

0315DOUG26 - Top of Plastic tub on floor in Trans/Maint room

0315DOUG27 - Desk surface outside Trans/Maint door to the right of the door in hallway

0315DOUG28 - Floor outside Scout Platoon door in hallway

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SI 17 March 2003

MEMORANDUM FOR THE: Georgia Army National Guard, ATTN: SSG Non-Responsive Non-Responsive Armory Supervisor Det 1 HHC 1st Battalion 108th Armor 6784 Church Street, Douglasville, Georgia 30134.

SUBJECT: Industrial Hygiene Service Contract for the Georgia Army National Guard, to look at the Douglasville National Guard Armory.

1. References.

a. Report dated 25 January 2003, Industrial Hygiene Survey, Non-Responsive

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

c. AR 40-5, Preventive Medicine, 15 October 1990.

d. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

e. AR 385-10, 23 May 1988, Army Safety Program.

f. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

g. TB MED 503, The Army Industrial Hygiene Program.

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

i. Industrial Ventilation, 22nd, 1995, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of MS. Non-Responsive of the Georgia State Safety and Occupational Health Office, an Industrial Hygiene Service Contract was put together to conduct an Industrial Hygiene survey at the National Guard Armories in Georgia.

b. Dr. Non-Responsive conducted the survey.

3. Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

4. Recommendations.

a. Follow all recommendations made in reference 1. a. requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. **Close this deactivated Indoor firing range until properly decontaminated. Clean the lead hot spots (see sample results) in the Indoor Firing Range following NG PAM's 385-15 and 385-16. Keep in mind that EPA and your state may have lead reduction levels lower than the levels recommend in the 385-15 and 385-16. Clean any and all items stored in the range before removing them.**

c. Use the report to help in correcting all deficiencies noted by the contractor.

d. Request follow-up sampling to be conducted as soon as possible once IFR has been decontaminated. Also consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the contract visit, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. Contact the Occupational Health Nurse, Ms. Non-Responsive for any medical Surveillance that may be needed.

f. To execute your responsibilities in correcting all deficiencies, coordinate with the FMO the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. If additional information is needed about the contractors report, please contact Non-Responsive Regional Industrial Hygienist, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: NBG-AVN-SH

CF: State Safety Office, GA, ATTN: Mrs. Non-Responsive Occupational Health Manager, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: Safety and Occupational Health Manager, P.O. 5019 Highway 42, Ellenwood, GA 30294.

Non-Responsive
583 GINGER CAKE RD
FAYETTTEVILLE, GA 30214
(770) 461-2684

January 25, 2003

SSG Non-Responsive
GA Army National Guard Armory
6784 Church St.
Douglasville, GA 30134

RE: Baseline Industrial Hygiene Survey

FINAL REPORT

FOR

BASELINE INDUSTRIAL HYGIENE SURVEY

GEORGIA ARMY NATIONAL GUARD

DOUGLASVILLE ARMORY

DOUGLASVILLE, GA

DATE:

DECEMBER 18,2002

PREPARED BY

Non-Responsive
583 GINGER CAKE RD
FAYETTEVILLE, GA 30214
(770) 461-2684

CONTENTS

1.0 INTRODUCTION

At the request of the National Guard Bureau South Region Industrial Hygiene Office, Non-Responsive performed a Baseline Industrial Hygiene Survey at the GA ARNG Douglasville Armory. The purpose of the survey was to perform a baseline survey to evaluate health hazards, controls present in the work site, collect lead swipe samples from renovated/inactive or closed Indoor Firing Ranges and perform, illumination survey. And to make recommendations regarding health hazards associated with the work at the Douglasville Armory.

The building was finished in 1952. The facility houses the Det. 1,HHC 1st BN 108th Armor. The armory is used by the troops of the Det. 1 HHC 1st BN 108th Armor for their monthly weekend drills.

The Det. 1 HHC 1st BN 108th Armor with about 101 troops has 2 full time AGR personnel at the time of the survey. The AGR employees are assigned to perform administrative duties Tuesday-Friday 7:00am-5: 30pm. The facility houses administrative areas, a Drill Hall, a Classroom, a Supply Room, a Weapons Vault, a kitchen, and a deactivated Indoor Firing Range (1969) that was converted to offices and storage areas. A schematic drawing of the facility can be found in Attachment 5.

The facility was visually examined and personnel consulted to assess potential hazards present. Health Hazard Information Modules were completed. Illumination survey was performed throughout the facility.

2.0 INSTRUMENTATION/CALIBRATION

The following instrumentation was used to obtain air sampling data and ventilation measurements. All instrumentation was calibrated before and after sampling and all instrumentation was operated according to the manufacturer's recommendations:

- Sper Scientific Light Meter

3.0 FINDINGS

Illumination

Illumination levels were recorded in administration offices, classrooms, drill hall, and supply room. Light measurements were below IES guidelines at the Readiness NCO office (computer desks, 18 & 45 FC), Recruiter Office (computer desk 31 FC), Conference/Training Room and the Drill Hall (very low readings). There were also five light bulbs out in the Drill Hall. The other areas tested were within IES minimum standards. See Light Readings Table at the end of this section.

Administration

Personnel perform administrative duties that consist of reading, handling and generating paper work. Computer use comprises a large portion of the working day, two to six hours per day. This continuous use of computers can, in the long run, lead to eyestrain and hand/wrist or shoulder soreness. Some of the personnel reported they have experienced either eyestrain or shoulder soreness from the use of computers for long periods of time. (See HHIM forms in attachment 1).

Motor Pool

The motor pool is located in a fenced area in the rear of the building. The motor pool includes 12 M998 HMMWV, 1 5T, 1 2.5T, and 4 Track vehicles. PMCS performed at the armory. No repair services are performed on these vehicles at the armory. About three times per month, service technicians come from the OMS #9 to perform needed repairs to the armory vehicles. Sometimes vehicles have to be taken to the OMS #9 for repairs.

Drill Hall

The Drill Hall is located in the center of the building. It is used for formation and classes during weekend drills. The Drill Hall is used to clean weapons a few times a year. Bay door is kept open and the exhaust ventilation fan at roof close to bay door is turned on when the weapons are cleaned. They use tables and groups of about 10 people at a time. The Drill Hall is rented out about 4 times a year for wrestling matches or tool sales.

Boiler Room

There is no boiler. There was a water heater in this room.

Deactivated Indoor Firing Range

A deactivated Indoor Firing Range (IFR) was been converted into offices and storage area. Personnel stated that it was deactivated in 1969 Six swipe samples

Table 1

Sample Number	Sample Location	Results
41	Bullet backstop area (weight room now)	78ug
42	Floor front of backstop (weight room now)	7790ug
43	Item 1 stored metal cabinet	65ug
44	Item 2 stored metal shelf	88ug
45	Wall floor next to exit door	905ug
46	Blank	BLR

Weapons Vaults

The Douglasville Armory has a weapon storage vault located in the Supply Room. The weapons list includes M-16s, 50 Cal. Machine guns, M-60 Machine guns and MK19.The dehumidifier is turned on at all times Personnel stated that accountability and issuing of weapons are performed in this area. Weapons are cleaned in the Drill Hall as described on the Drill Hall section.

A/C System

Central A/C units are used to cool and heat administrative offices. The classroom and the Supply Room have window A/C units. Six swipe samples for Lead (Table 2) were collected from the supply air grills in the offices occupied by full time members of the Army National Guard and the filter at the unit. None of the samples were above the clearance level of 200ug/ft2.

Table 2

Sample Number	Sample Location	Results
31	Readiness NCO Office Croft)	BLR
32	Administration Office (Ojeda)	BLR
33	Recruiter Office	BRL
34	A/C unit filter, fan side	BRL
35	A/C unit filter, supply side	42ug
36	Blank	BLR

Material Safety Data Sheets

The armory has an MSDS book located in Readiness NCO Office. There is a note located on the bulletin board at the Drill Hall that explains where the MSDS book is located. The MSDS forms are mainly for household cleaners and weapons cleaning oils. MSDS forms are added to the book when new products arrive. There is a Flammable cabinet with a Hazardous Materials Inventory List. SGT Non-Responsive ttended Hazardous Materials training on April 2002.

Light Readings

Light measurements were taken in various locations throughout the facility. The results were compared to guidelines recommended by the Illuminating Engineering Society (IES). The results of the survey are shown in Table 3

Table 3

Location	Light Reading (footcandles)	IES Recommendation (footcandles)
ADO Readiness NCO Office	**18-59 (Avg. 42)**	**50-100**
ADO Administration Office	**47-70 (Avg. 57)**	**50-100**
ADO Recruiter Office	**31-54 (Avg. 42)**	**50-100**
Classroom	**15-95 (Avg. 60)**	**50-100**
Conf./Training Mortar Platoon Room	**34-49 (Avg. 40)**	**50-100**
ADO Supply Room (Storage)	**17-32 (Avg. 24)**	**20**
Drill Hall	**3-12 (Avg. 9)**	**30**

Light measurements were below IES guidelines at the Readiness NCO office (computer desks, 18 & 45 FC), Recruiter Office (computer desk 31 FC), Conference/Training Room and the Drill Hall (very low readings). There were also five light bulbs out in the Drill Hall. Consideration should be given to replace burned out light fixtures and/or provide supplemental lighting in those areas that were below the recommended standard. ANSI RP7-1991.

4.REFERENCES

- Guide to Occupational Exposure 2000, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
- American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.
- National Institute for Occupational Safety and Health (NIOSH), (76-130) Technical Information, Lead Exposure and Design Considerations for Indoor Firing Ranges GPO, 1975.
- Title 29, Code of Federal Regulations (CFR). 1999, revision, Part 1910. Occupational Safety and Health Standards
- AR 40-5, Preventative Medicine, 15 October 1990.
- AR 385-10, The Army Safety Program, 23 May 1988.

- National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.
- AR 385-16, National Guard Pamphlet, Safety Guidelines for Converting Indoor Firing Ranges to Other uses.
- TB MED 503, The Army Industrial Hygiene Program, February 1985.
- Department of the Army Pamphlet (DA PAM) 40-501,27 August 1991, Hearing Conservation.
- Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

Non-Responsive

RECOMMENDATIONS

- Provide supplemental lighting in those areas that were below the recommended standard as represented in Table 3. Recommend that burned out light fixtures and light bulbs is replaced.

- Recommend that when using computers for extended periods of time, personnel should take occasional breaks and change position to minimize the possibility of eyes and/or hands/wrist injury.

- Continue to ensure that weapon maintenance and cleaning is done in a well-ventilated area. Continue to practice good personal hygiene by washing hands after handling and cleaning weapons and ammunition.

- The A/C filter should be replaced according to manufacturers' recommendation.

- Tηε MSDS book should be updated periodically. Ensure that personnel have knowledge of the location of the MSDS book, and is enrolled hazardous materials safety training.

- That the state Occupational Safety and Health office review the lead swipe clearance sample results of this facility to determine if the IFR will need further decontamination.

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.

(For use of this form, see AR 40-5; the proponent agency is The Surgeon General.)

BEST AVAILABLE COPY

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Douglasville GA Armory c. BLDG/RM NUMBER Readiness NCO Office

d. LOCATION/CODE AA / e. OPERATION/CODE ADO / f. DESCRIPTION _____

Training NCO, Readiness NCO - Day to day operation, Computer work, Reports

Answer Tel Conf /

g. MACOM/CODE NG / h. SUBMACOM/CODE _____ / i. SUPERVISOR SFC [redacted] Non-Responsive

j. TELEPHONE/AUTOVON NUMBER 770 489 , 3025 k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-18-02 b. EVALUATOR (INITIALS) [redacted] Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	18-59- ANT 42	FC	50-100	Inadeq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

i. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
½ FACE AIR PURIFYING			/
½ FACE AIR PURIFYING	M-40 M-42		/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PVDT	Eye Strain - Continuous use of computer	>	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
Non-Responsive		R	M	Non-Responsive	

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Readiness / Training NCO
② Spend about 8 hr/day in computer
③ Eye strain after a while in computer
④ Should take breaks when using computer.
⑤ No other health problems related.

* PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see USAIHM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ____ b. INSTALLATION Douglasville GA Armory c. BLDG/RM NUMBER Administration Room

d. LOCATION/CODE AA / ~~SA~~ e. OPERATION/CODE ADD / ~~SAH~~ f. DESCRIPTION ~~Supply~~ Payroll, Records Keeping, Order Uniforms, Bonuses Deposits

g. MACOM/CODE NG / h. SUBMACOM/CODE ____ / ____ i. SUPERVISOR SSG [redacted] Non-Responsive

j. TELEPHONE/AUTOVON NUMBER 770 489, 3025 k. RAC ____ l. FREQUENCY (Hrs Per Day) ____

m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS ____ b. VAPOR DEGREASERS ____ c. MAINTENANCE BAYS ____ d. SPRAY BOOTHS ____

e. OPEN SURFACE TANKS ____ f. VENTILATION UNITS ____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-18-02 b. EVALUATOR (INITIAL [redacted] Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	47-70-Avg 57	FC	50-100	Adgt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
½ FACE AIR PURIFYING			/
½ FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	/
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	/
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Eyestrain, headaches	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
Non-Responsive		A	M	Non-Responsive	

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Administration, Payroll
② about 3 hrs of computer per day
③ No health problem related to computer use
④ On the Telephone about 3 hr / day
⑤ lots of paper work

* PRIVACY ACT STATEMENT

Title 6 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical surveillance.

Signature

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see HHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ______ b. INSTALLATION Douglasville GA Armory c. BLDG/RM NUMBER Supply Room

d. LOCATION/CODE AA SA e. OPERATION/CODE ADO SAK f. DESCRIPTION Order Supplies, Order Food,

g. MACOM/CODE NG ~~IZO~~ 1 49 h. SUBMACOM/CODE ______ i. SUPERVISOR SSG [redacted]

j. TELEPHONE/AUTOVON NUMBER 770 489, 3520 k. RAC ______ l. FREQUENCY (Hrs Per Day) ______

m. NO CIV(S) ______ n. NO MIL ______ o. NO CONTRACTOR(S) ______ p. NO LOC(S) ______ q. NO OTHER ______

SECTION 2. IH STAFFING DATA

a. LAB HOODS — b. VAPOR DEGREASERS — c. MAINTENANCE BAYS — d. SPRAY BOOTHS —

e. OPEN SURFACE TANKS — f. VENTILATION UNITS —

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-18-07 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	17-32-Avg 24	FC	20	Adqt.

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			—
¼ FACE AIR PURIFYING			—
½ FACE AIR PURIFYING	M-40 M-42		—
FULL FACE AIR PURIFYING			—
POWERED AIR PURIFYING			—
AIRLINE			—
SELF-CONTAINED			—
ABRASIVE BLASTING HOOD			—

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PO VDT	Daily use of computers for long periods of time	2	
PO LIFTING	Heavy Lifting	3	
PO FootHAZ	Foot hazard		

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
SGT [redacted]	[redacted]	A		[redacted]	AGR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

(C) Supply
(D) Moving supplies, receiving food
(3) a little B heavy lifting
(4) Distribute equipment for Troops
(5) Begining in Jan 2003, he will be working only in the Supply room.
(6) window A/C unit that supposed to be heating too, but does not work as heater because it trips circuit out. Needs 220,

* PRIVACY ACT STATEMENT

Title 5 U.S. Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as a identification number. The purpose of this information is to identify and monitor data relating each DA civilian employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposure for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

Analytical Environmental Servs, Inc.

Date: 1/10/03

TOTAL LEAD IN WIPE SAMPLES
N7082

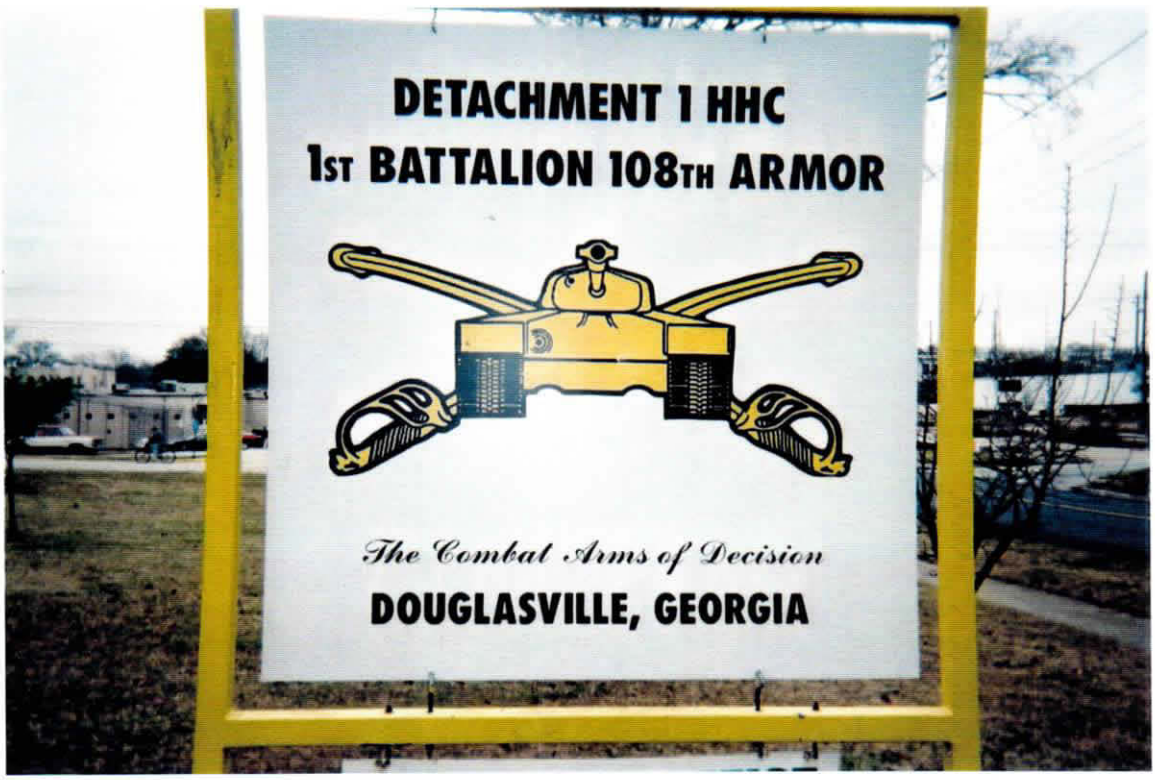
CLIENT: Non-Responsive
Project: Douglasville GA Armory
Project No: Douglasville GA
PO No:

Lab Order: 0301096
Date Received: 1/6/03 4:05:00 P
Matrix: Wipe
Analyst: MM

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0301096-001A	41	78.0	µg, Total	2.83	1	12/18/02	1/7/03
0301096-002A	42	7790	µg, Total	22.7	8.01	12/18/02	1/7/03
0301096-003A	43	65.0	µg, Total	2.83	1	12/18/02	1/7/03
0301096-004A	44	88.0	µg, Total	2.83	1	12/18/02	1/7/03
0301096-005A	45	905	µg, Total	2.83	1	12/18/02	1/7/03
0301096-006A	46	BRL	µg, Total	2.83	1	12/18/02	1/7/03
0301096-007A	31	BRL	µg, Total	2.83	1	12/18/02	1/7/03
0301096-008A	32	BRL	µg, Total	2.83	1	12/18/02	1/7/03
0301096-009A	33	BRL	µg, Total	2.83	1	12/18/02	1/7/03
0301096-010A	34	BRL	µg, Total	2.83	1	12/18/02	1/7/03
0301096-011A	35	42.0	µg, Total	2.83	1	12/18/02	1/7/03
0301096-012A	36	BRL	µg, Total	2.83	1	12/18/02	1/7/03

Qualifiers: MDL - Method Detection Limit
ND - Not Detected at the Reporting Limit
DF - Dilution Factor

Douglasville, GA Armory



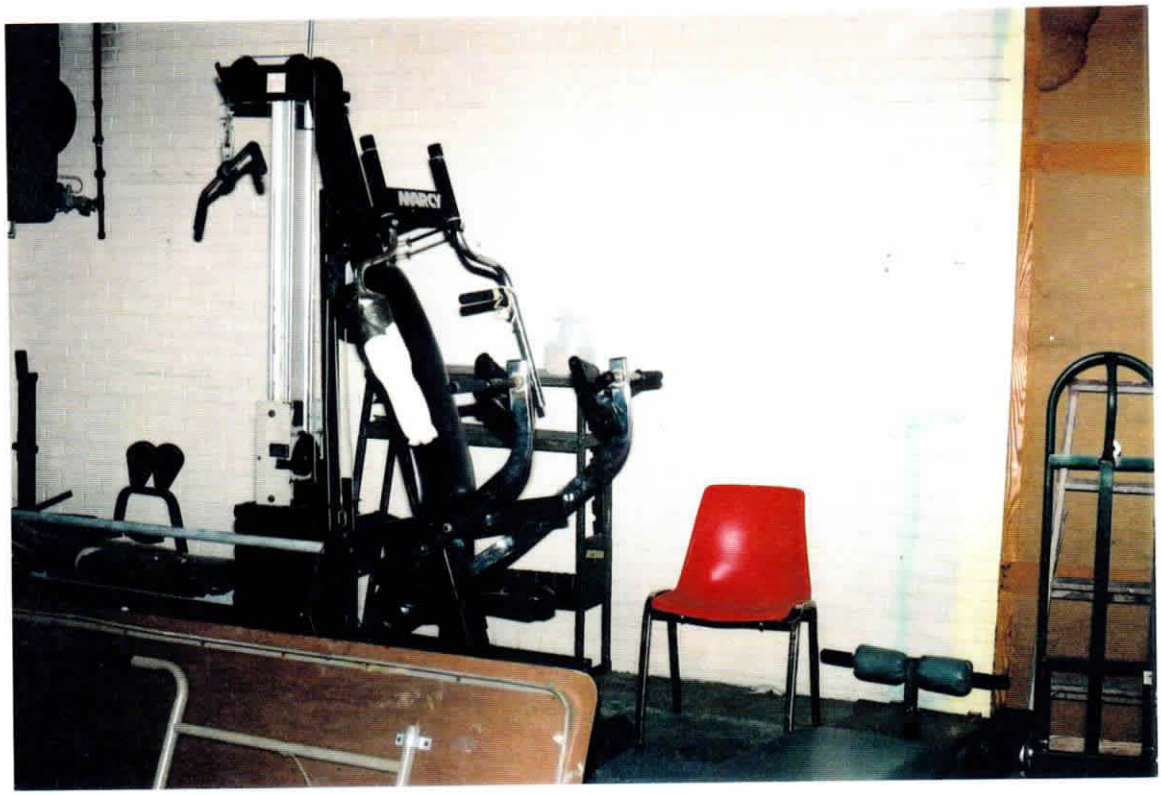
A/C Window Unit
Classroom

A/C Heating System Filter

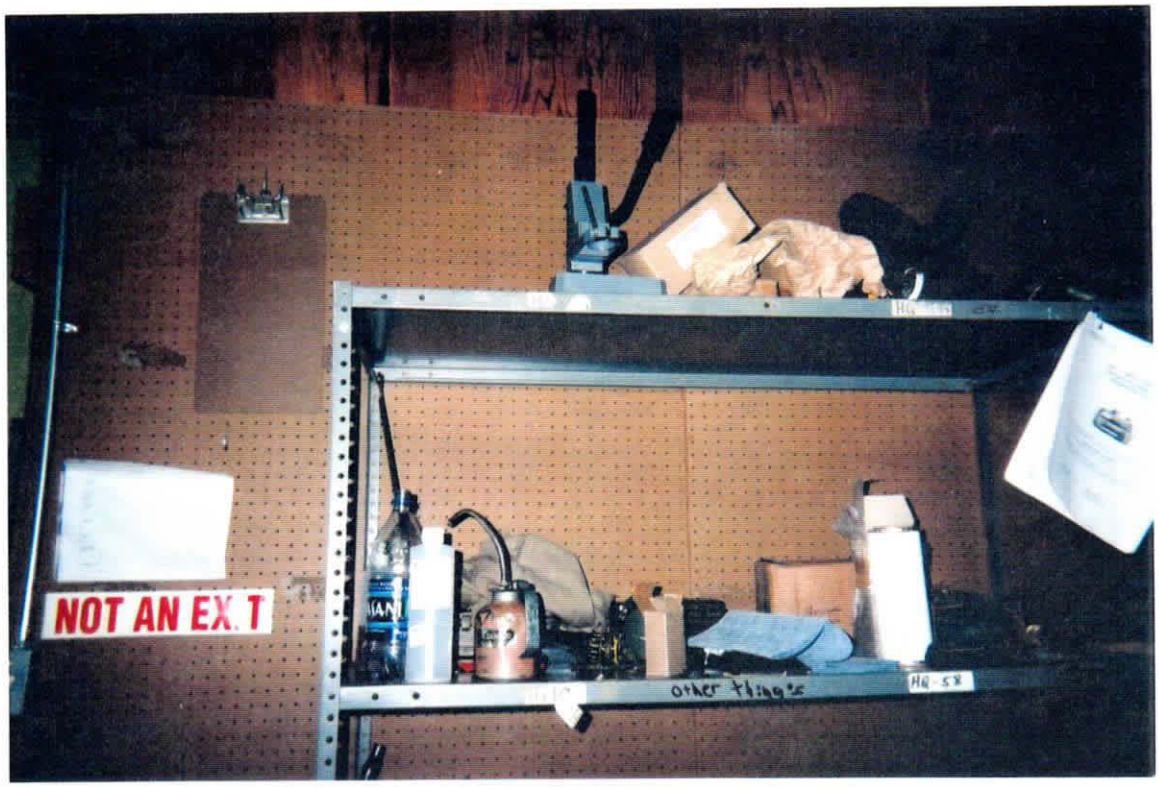
A/C Heating System
Supply Grills

Drill Hall

Motor Pool

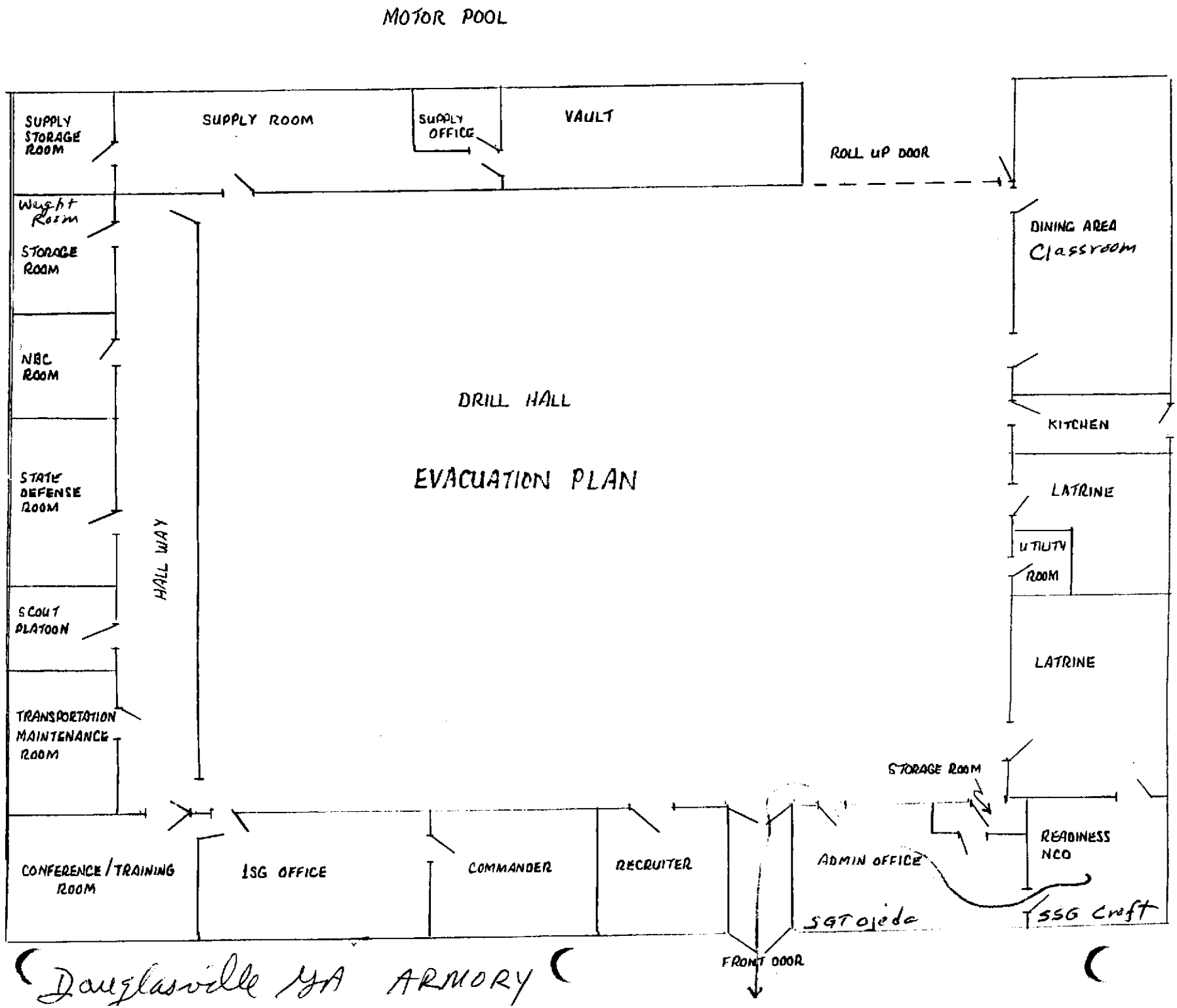


IFR Sampling Areas



IFR Sampling Areas

Flammables Cabinet



NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SEIH September 9, 2008

MEMORANDUM THRU LT. [redacted] Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. [redacted] Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Gainesville National Guard Armory, Lead Sampling Survey, Gainesville, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the Gainesville, Georgia site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On July 24, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR was emptied of the bullet stop and firing line. The former IFR appeared to be currently utilized as office space for full-time soldiers. Several desks, tables, chairs, office furniture and physical fitness equipment were observed in the former IFR. The surface areas inside the former IFR were observed to be constructed of cinder-block walls with concrete floors and the ceiling was constructed of concrete-type mesh, with a metal overhead door located adjacent to the former bullet stop location.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Ghost Wipes™ are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 16 samples were collected including three from each surface area with the exception of the rear wall of the former IFR. No samples were collected as a result of offices constructed in the area. The collected wipe samples were subsequently submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results indicate lead concentrations detected above the IFR post cleaning standard. These sampling results indicate that any previous decontamination activities were not adequate to remove the lead dust from the former range at acceptable levels. In accordance with the National Guard Bureau Pamphlet 420-15, the IFR cannot be converted for other uses until the lead dust levels are reduced to 200µg/ft^2 or lower depending on local requirements.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
GA-01	Lower Wall, Former Bullet Stop	54
GA-02	Middle Wall, Former Bullet Stop	249
GA-03	Upper Wall, Former Bullet Stop	BRL[2]
GA-04	Lower Right Wall	25
GA-05	Middle Right Wall	BRL
GA-06	Upper Right Wall	BRL
GA-07	Lower Left Wall	BRL
GA-08	Middle Left Wall	BRL
GA-09	Upper Left Wall	89
GA-10	Floor at Bullet Former Bullet Stop	20
GA-11	Middle Floor	BRL
GA-12	Floor at Rear of Former IFR	22
GA-13	Ceiling at Former Bullet Stop	147
GA-14	Middle Ceiling	58
GA-15	Ceiling at Rear of Former IFR	BRL
GA-16	Field Blank	BRL

[1] Results reported in micrograms per square feet ($\mu g/ft^2$)
[2] BRL = Below Reportable Limits

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. Review NG Bureau Pamphlet 420-15 and perform decontamination of the area identified with greater than 200 $\mu g/ft^2$. Specifically, the overhead metal door near the former bullet stops location.

b. Prior to initiating decontamination activities and in accordance with 29 CFR 1910.1025, perform and conduct training for employees exposed to lead concentrations above the standard or who may suffer skin or eye irritation from exposure to lead.

c. Ensure that appropriate personal protective equipment is worn during decontamination activities.

d. Consult with local Environmental Agency for guidance on proper disposal of materials used in decontaminating the IFR.

e. Following the sampling event, if lead concentrations are less than 200 $\mu g/ft^2$, the walls and floor of the former IFR shall be coated with a lead dust encapsulant. Conventional paint can not be used as an encapsulant. It should be noted that the referenced guidance document does not address coating the ceiling.

f. In accordance with NGB Pamphlet 420-15, continue lead testing on an annual basis to verify that lead has not migrated from the substrate. The annual sampling shall include areas of the ceiling, walls and floors.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 06, 2008

Non-Responsive
National Guard Bureau Region-South III
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Gainesville GA Armory

Order No.: 0807122

Dear Non-Responsive

Analytical Environmental Services, Inc. received 16 samples on 7/25/2008 12:45:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 5 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 [illegible]ential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 807I22

Date: 7/25/08 Page 1 of 2

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Dr. Ste 1530 College Park, GA

PHONE: 404-559-4174

FAX:

SAMPLER: [redacted]

SIGNATURE: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	GA-01	7/24/08		X		WP	Y	1'x1' sample	1
2	GA-02			X			Y		1
3	GA-03			X			Y		1
4	GA-04			X			Y		1
5	GA-05			X			Y		1
6	GA-06			X			Y		1
7	GA-07			X			Y		1
8	GA-08			X			Y		1
9	GA-09			X			Y		1
10	GA-10			X			Y		1
11	GA-11			X			Y		1
12	GA-12			X			Y		1
13	GA-13			X			Y		1
14	GA-14			X		WP	Y	1'x1' Sample	1

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY: [redacted] DATE/TIME: 7/25/08 1550

RECEIVED BY: [redacted] DATE/TIME: 7/25/8 1245

3:

PROJECT INFORMATION

PROJECT NAME: Gainesville GA Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: [redacted]

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 14

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any)

E-mail? Y / N, Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD

OUT: VIA:

IN: VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid S = Sulfuric acid + ice S/M = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 [illegible]ential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0712Z

Date: 7/25/08 Page 2 of 2

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Dr, Ste 1530 College Park, GA

PHONE: 4155-4174

FAX: 4155-4175

SAMPLER: [redacted] Non-Response

SIGNATURE: [redacted] Non-Response

ANALYSIS REQUESTED

Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	Ga-15	7/24/08		X		WATER	X	1'x1' sample	1
2	Ga-16	"		X		WATER	X		
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

BEST AVAILABLE COPY

RELINQUISHED BY: [redacted] Non-Responsive DATE/TIME: 7/25/08 1300

RECEIVED BY: [redacted] Non-Responsive DATE/TIME: 7/25/8 12:45

3.

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD

OUT / / VIA

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: Gainesville GA Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: [redacted] Non-Response

INVOICE TO (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 2

Turnaround Time Request

- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any)

E-mail? Y N, Fax? Y N

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

PRESERVATIVE CODES: H+I Hydrochloric acid + ice I Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

BEST AVAILABLE COPY

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA. ARMY Work Order Number 0807I22

Checklist completed by [redacted] 07/25/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes [redacted]	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓ 7/25/08	No __	

Cooler #1 ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

L:\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: 8/6/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Gainesville GA Armory
Delivery Order:
PO No:

Lab Order: 0807I22
Date Received: 7/25/2008 12:45 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0807I22-001A	GA-01	54	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-002A	GA-02	249	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-003A	GA-03	BRL	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-004A	GA-04	25	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-005A	GA-05	BRL	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-006A	GA-06	BRL	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-007A	GA-07	BRL	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-008A	GA-08	BRL	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-009A	GA-09	89	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-010A	GA-10	20	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-011A	GA-11	BRL	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-012A	GA-12	22	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-013A	GA-13	147	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-014A	GA-14	58	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-015A	GA-15	BRL	µg/ft²	20	1	7/24/2008	7/31/2008	JY
0807I22-016A	GA-16	BRL	ug, Total	20	1	7/24/2008	7/31/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

Photo 1: View of the constructed offices located at the entrance of the former IFR.

Photo 3: View of a portion of the right wall with sample location outlined.

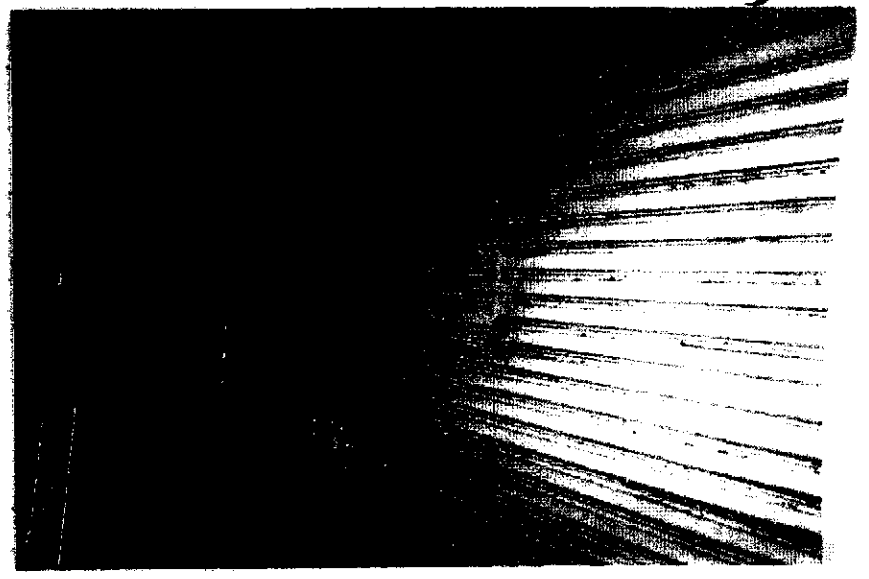


Photo 2: View of the overhead door located at the former bullet stop with sample locations.

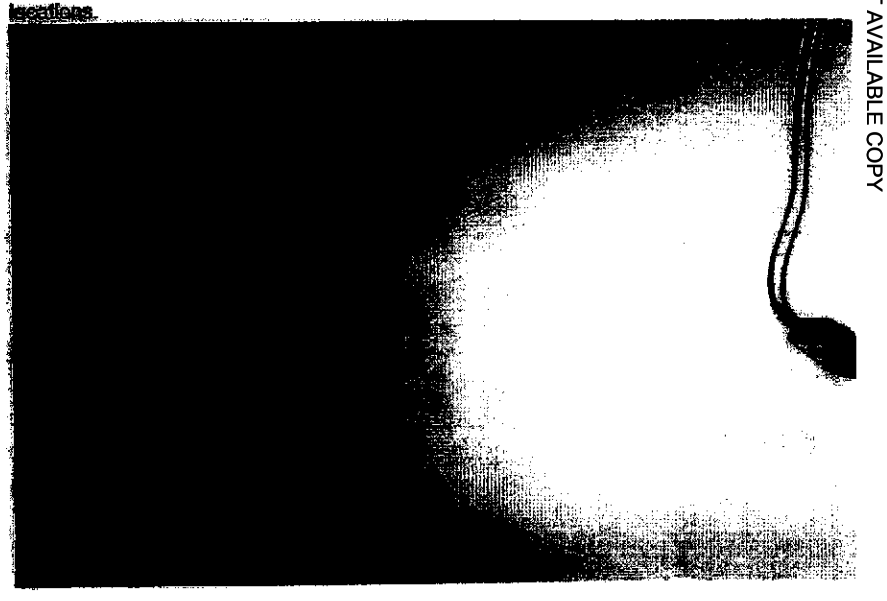


Photo 4: View of left wall with sample location.

Project Name: Gainesville, Georgia Armory

Date Photos Taken: 24 July 2008

Photo 5: View of the concrete flooring, right wall and office furniture observed in the former IFR.

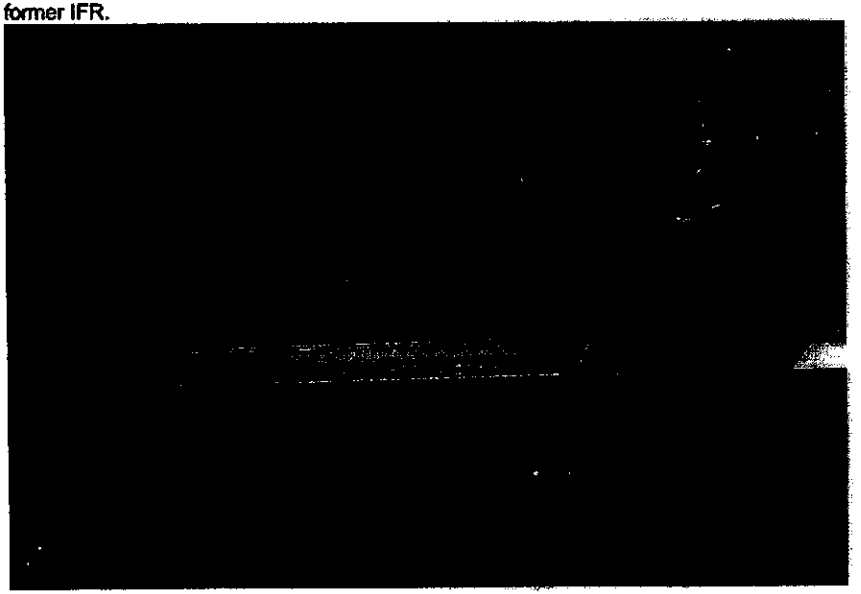


Photo 7: View of ceiling of the former IFR.

Photo 6: View of the exposed concrete floor.

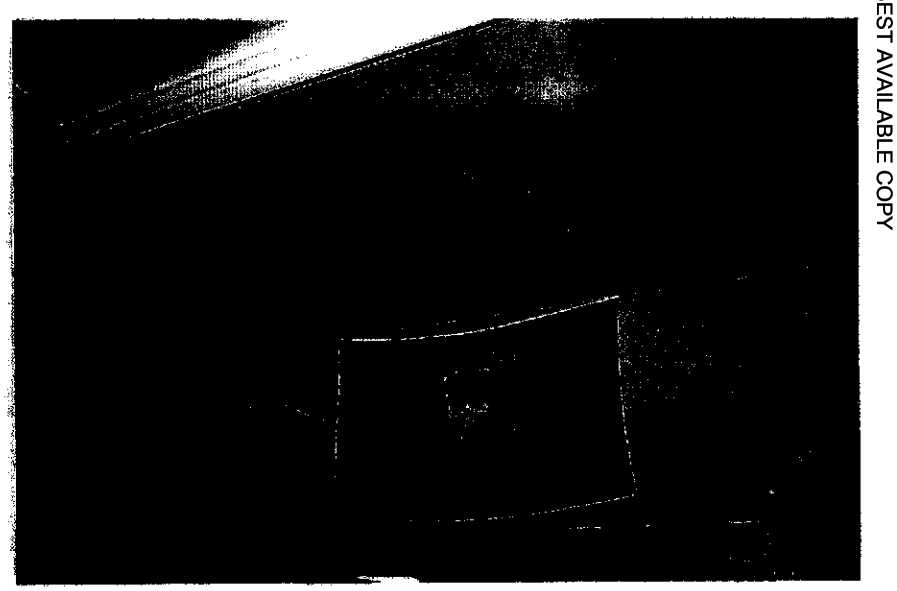


Photo 8: View of ceiling of the former IFR.

Project Name: Gainesville, Georgia Armory

Date Photos Taken: 24 July 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH

15 March 2010

MEMORANDUM THRU CPT Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

SUBJECT: Gainesville National Guard Armory, Lead Sampling Survey 23 February 2010, Gainesville, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by Mr Non-Responsive Facilities Maintenance Manager, Clearance sampling was conducted at the referenced site. The objective of the visit was to determine if the Indoor Firing Range was free of lead after clean-up by contractor.

b. Mr. Non-Responsive Regional Industrial Hygienist with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the lead sampling.

3. Findings. The laboratories results indicate that all samples collected after the clean-up by the contractor were below the level of detection.

4. Recommendations. None.

5. If additional information is needed about the contractors report, please contact Non-Respon Non-Responsive Regional Industrial Hygienist at 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

Mr. Non-Responsive, Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SEIH

September 9, 2008

MEMORANDUM THRU LT [redacted] Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr [redacted] Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Lagrange National Guard Armory, Lead Sampling Survey, Lagrange, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On August 15, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR appeared to have undergone conversion to a classroom, with tables, wall lockers and chairs observed at the time the survey was conducted. The flooring was observed to be covered with vinyl floor tile and there was a drop ceiling present completed with acoustical ceiling panels. Painted brick walls were observed and there were five offices constructed in the former IFR completed with sheetrock walls. There was however exposed concrete flooring and original ceiling materials observed inside the electrical room of the converted IFR. As a result of the completed renovations, sampling locations were limited to exposed surfaces, concrete flooring and ceiling materials in the electrical room as well as the vinyl floor covering.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Dust sample were collected Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 15 samples were collected from the exposed surface areas. The collected samples were transported to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results did not indicate the presence of lead concentrations above the IFR post cleaning standard of 200 micrograms per feet squared ($\mu g/ft^2$). These sampling results indicate that any previous decontamination activities appear to be adequate to remove the lead dust from the former range at acceptable levels. It should be noted that

the sampling activities were completed in a former IFR which has undergone conversion/renovation.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
LA-01	Lower Wall at Former Bullet Stop	BRL[2]
LA-02	Middle Wall at Former Bullet Stop	BRL
LA-03	Lower Right Wall	BRL
LA-04	Middle Right Wall	BRL
LA-05	Upper Right Wall	BRL
LA-06	Lower Left Wall	BRL
LA-07	Middle Left Wall	BRL
LA-08	Upper Left Wall	BRL
LA-09	Floor at Former Bullet Stop	BRL
LA-10	Floor, Middle of Former IFR	BRL
LA-11	Floor, Rear of Former IFR	BRL
LA-12	Tabletop in Office at Former Bullet Stop	BRL
LA-13	Metal Wall Locker Top	BRL
LA-14	Exposed Ceiling in Electrical Room	BRL
LA-15	Field Blank	BRL

[1] Results reported in micrograms per square feet ($\mu g/ft^2$)
[2] BRL = Below Reportable Limits

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. In as much as the former IFR at the Lagrange Armory has been converted to a training room, it appears that lead dust is not present at concentrations above the NGB standard. It should be noted that the sampling activities were limited to exposed areas observed inside the former IFR.

b. In accordance with NGB Pamphlet 420-15, continue lead testing on an annual basis to verify that lead has not migrated from the substrate. The annual sampling shall include areas of the ceiling, walls and floors. Following the annual sampling event, if lead concentrations are less than 200 $\mu g/ft^2$, the walls of the former IFR shall be coated with a lead dust encapsulant. Conventional paint can not be used as an encapsulant. It should be noted that the referenced guidance document does not address coating the ceiling. However, it appears that the presence of the drop ceiling with acoustical ceiling panels would be sufficient barrier to prevent potential lead migration and exposure.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive, Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 22, 2008

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349
TEL: (404) 559-4174
FAX (404) 559-4175

RE: Lagrange Armory

Dear Non-Responsive

Order No.: 0808A23

Analytical Environmental Services, Inc. received 15 samples on 8/15/2008 2:05:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 5 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

ALYTICAL ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

Work Order: 08A23

3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 8/15/08 Page 1 of 2

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Drive College Park, GA 3034

PHONE: 4/559-4175

FAX: 4/559-4174

SAMPLED BY: [redacted]

SIGNATURE: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	La-01	8/15/08		X		Wipe	X	1'x1' sample	1
2	La-02			X			X		1
3	La-03			X			X		1
4	La-04			X			X		1
5	La-05			X			X		1
6	La-06			X			X		1
7	La-07			X			X		1
8	La-08			X			X		1
9	La-09			X			X		1
10	La-10			X			X		1
11	La-11			X			X		1
12	La-12			X			X		1
13	La-13			X			X		1
14	La-14			X			X	1'x1' Sample	1

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY 1: [redacted] DATE/TIME: 8/15/08 1405

RECEIVED BY 1: [redacted] DATE/TIME: 8-15-08 14:05

RELINQUISHED BY 2:

RECEIVED BY 2:

RELINQUISHED BY 3:

RECEIVED BY 3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: VIA
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Lagrange Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: PO#:

RECEIPT
Total # of Containers: 14

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):
E-mail? Y / N, Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ALYTICAL ENVIRONMENTAL SERVICES, INC.
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: L 8A23

Date: 8/15/08 Page 2 of 2

COMPANY	ADDRESS
Region South HQ Office	510 Plaza Dr College Park, GA
PHONE 4155 9-4175	FAX 4155 9-4174
SAMPLED [redacted]	SIGNATURE [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Legal	No # of Containers
1	L9 - 15	8/15/08		X		WIPE	X	1
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

ANALYSIS REQUESTED

PRESERVATION (See codes)

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

REMARKS

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted]	8/15/08/1405	[redacted]	8-15-08
		2	14:05
3		3	

PROJECT INFORMATION

PROJECT NAME: Lagrange Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: [redacted]

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE # PO#

RECEIPT

Total # of Containers: 1

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):

E-mail? Y / N, Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD

OUT / / VIA

IN / / VIA:

(CLIENT) FedEx UPS MAIL COURIER

GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
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White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Region South/Georgia Army Work Order Number 0808A23

Checklist completed by [redacted] 8/15/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	[redacted] 8/15/08 Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc.

Date: 8/22/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Lagrange Armory
Delivery Order:
PO No:

Lab Order: 0808A23
Date Received: 8/15/2008 2:05 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0808A23-001A	LA-01	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-002A	LA-02	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-003A	LA-03	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-004A	LA-04	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-005A	LA-05	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-006A	LA-06	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-007A	LA-07	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-008A	LA-08	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-009A	LA-09	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-010A	LA-10	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-011A	LA-11	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-012A	LA-12	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-013A	LA-13	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-014A	LA-14	BRL	µg/ft²	20	1	8/15/2008	8/21/2008	JY
0808A23-015A	LA-15	BRL	µg, Total	20	1	8/15/2008	8/21/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

Photo 1: View of the exterior of the Lagrange, Georgia National Guard Armory.

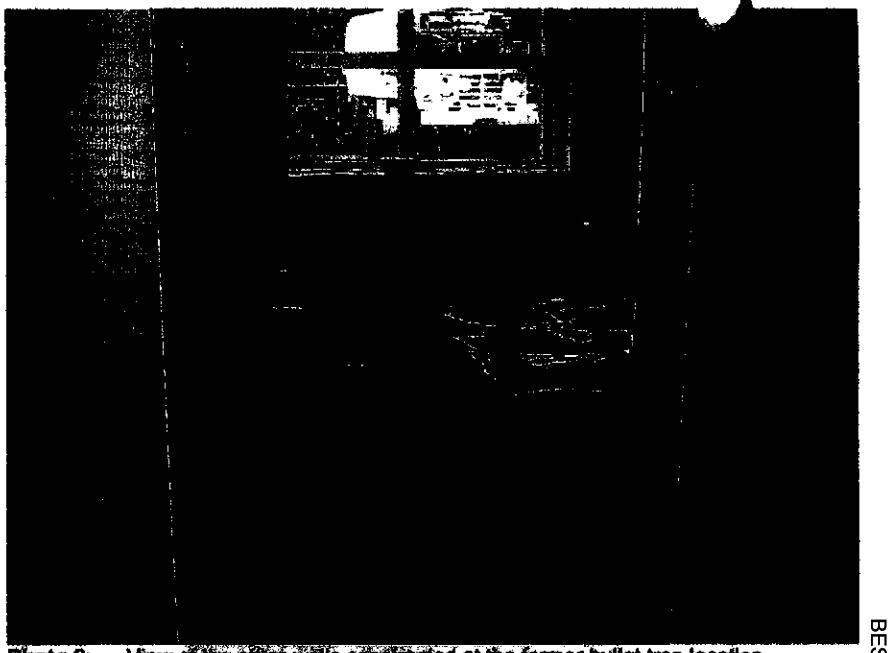

Photo 2: View of the office walls constructed at the former bullet trap location.

Photo 3: View of right wall with painted surface.

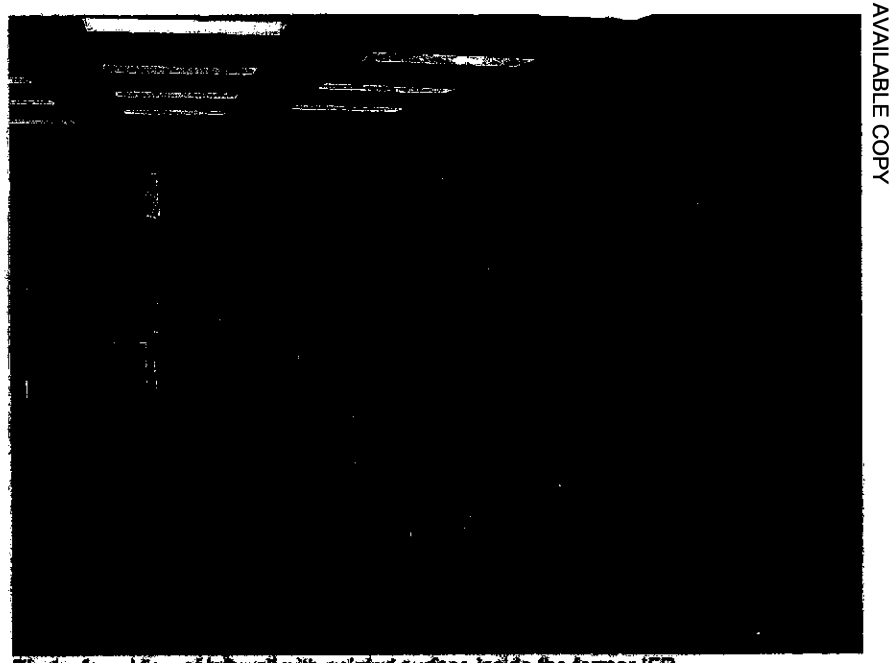

Photo 4: View of left wall with painted surface inside the former IFR.

Project Name: Lagrange, Georgia Armory

Date Photos Taken: 15 August 2008

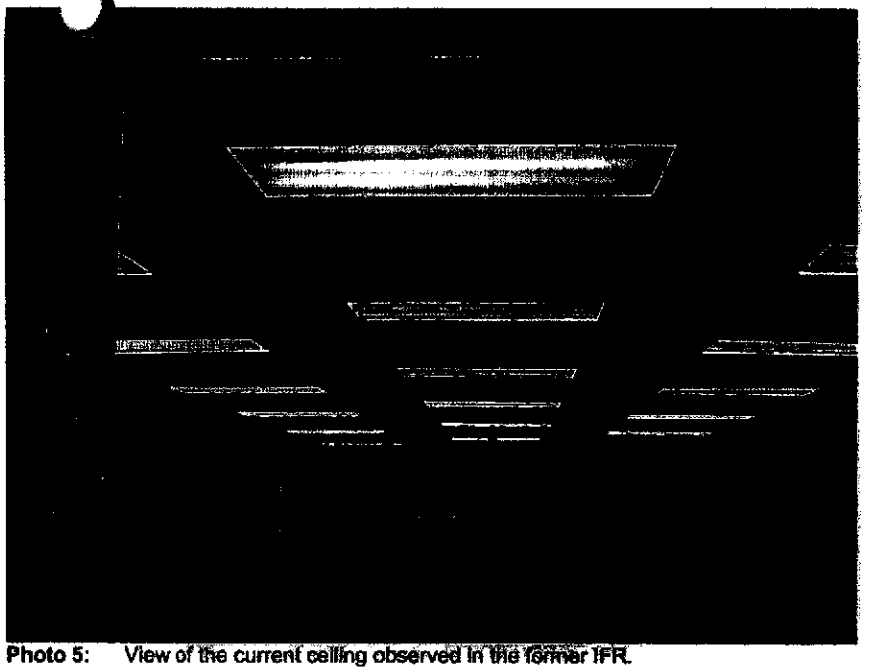

Photo 5: View of the current ceiling observed in the former IFR.

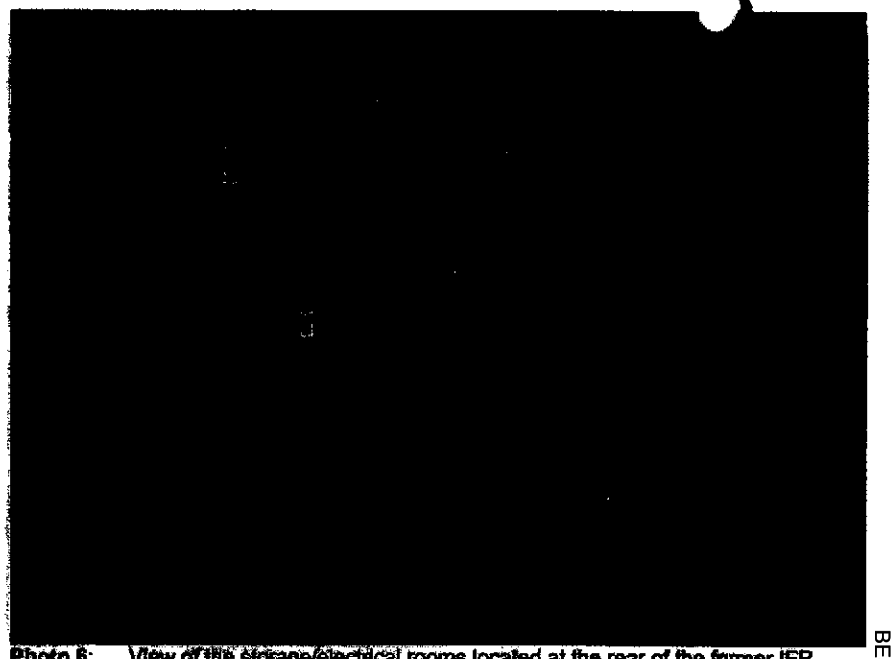

Photo 6: View of the storage/electrical rooms located at the rear of the former IFR.

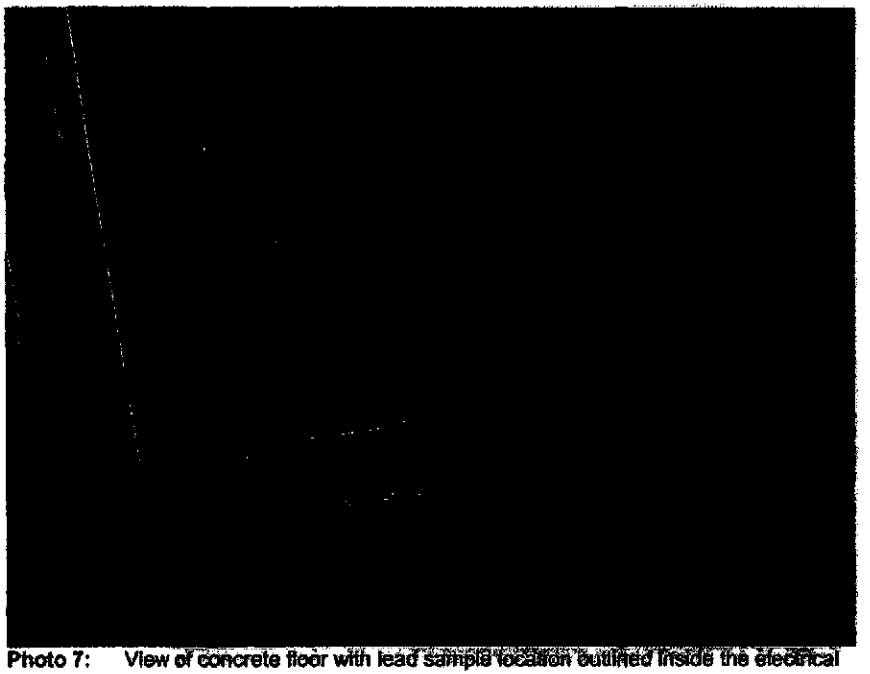

Photo 7: View of concrete floor with lead sample location outlined inside the electrical room.

Project Name: Lagrange, Georgia Armory

Date Photos Taken: 15 August 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SI December 10, 2003

MEMORANDUM FOR THE: Georgia Army National Guard, ATTN: ATTN: Mrs. Non-Responsive Occupational Health Manager, P.O. BOX 17965, Atlanta, GA 31316-0965.

SUBJECT: Industrial Hygiene Lead sampling for the Georgia Army National Guard at Metter Armory Indoor Firing Range (IFR).

1. **References.**

a. Fax sent 1 December 2003.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

c. AR 40-5, Preventive Medicine, 15 October 1990.

d. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

e. AR 385-10, 23 May 1988, Army Safety Program.

f. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

g. TB MED 503, The Army Industrial Hygiene Program.

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

i. Industrial Ventilation, 22nd, 1995, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29 Code of Federal regulation (CFR), Part 1910.1025 Lead

2. **General.**

a. At the request of Ms. Non-Responsive of the Georgia Safety and Occupational Health Office, Industrial Hygiene Lead sampling was conducted at Metter Armory. The concern was items stored in an Indoor Firing Range that may be contaminated with lead.

b. SGT Non-Responsive of the Southeast Regional Industrial Hygiene office conducted the survey and sampling.

3. **Findings.**

Lab Results Multiple By 9
Metter Armory

Sample#	Location	Results
1.	Top left Wall	225
2.	Middle Left Wall	447300
3.	Bottom left Wall	83520
4.	Top left Bullet stop end	851400
5.	Middle Bullet stop end	107100
6.	Bottom Right bullet stop end	702000
7.	Top Right Wall	BRL
8.	Middle Right Wall	594000
9.	Bottom Right Wall	702000
10.	Bottom Rear Wall	531
11.	Blank	BRL
12.	Top Rear wall	549
13.	Floor Right Bullet Stop	37890
14.	Floor Center	5211
15.	Floor Left Rear Wall	13590
16.	Floor	423900
17.	Right Side Wall	342
18.	Middle Right Side Wall	333
19.	Middle rear Wall	243
20.	Blank	BRL
21.	Right wall	432
22.	Shelf Left Wall	BRL
23.	TV By Door	BRL
24.	Individual Control Unit	2925
25.	None	BRL
26.	Copy Machine	3924
27.	Front Door	BRL
28.	Caswall Control	558
29.	Middle Right Wall	783
30.	Black Locker	BRL
31.	Desk	BRL
32.	Perm/Temp Broad	BRL
33.	Blank	BRL

All sample results were measured as micrograms/square foot

All samples collected were either above the 200 micrograms/square foot standard, which require decontamination prior to removal, or below record able levels (BRL)

4. **Discussion.**

a. The Indoor Firing Range was used as a storage place for office equipment.

b. All of the items inside the range that touched a wall or floor appeared to be contaminated with lead.

5. **Recommendations.**

a. Do not remove anything from the Indoor Firing Range before all stored items are cleaned and decontaminated.

b. Follow the latest guidelines of NG PAM (AR) 385-16, "Guidelines for converting Indoor Firing Ranges to other uses" and NG PAM 385-15,"Policy, Responsibilities and Guidelines for Housekeeping, Rehabilitation and/or Conversion of Indoor firing Ranges" to help in cleaning the items stored in the Indoor Firing Range.

c. Contact this office if additional samples are needed to be collected either prior to or after decontaminating and removal of stored items.

6. If additional information is needed about the contractors report, please contact Non-Responsive Regional Industrial Hygienist, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

2 Attachments

CF: State Safety Office, GA, ATTN: LTC Non-Responsive Safety and Occupational Health Manager, P.O. BOX 17965, Atlanta, GA 31316-0965.

Georgia Army National Guard, Facility Management Office, ATTN: Ms. Non-Responsive Non-Responsive CFMO, P.O. BOX 17965, Atlanta, GA 31316-0965.

Swainsboro Armory, ATTN: SGT Non-Responsive 673 Kite Rd. Swainsboro, GA 30401

HEADQUARTERS
DEPARTMENT OF THE ARMY AND AIR FORCE
Washington, DC 20310-2500
1 September 2000

NG PAM 385-15
ANGPAM 91-101

POLICY, RESPONSIBILITIES AND GUIDELINES FOR HOUSEKEEPING, REHABILITATION AND/OR CONVERSION OF INDOOR FIRING RANGES.

Summary. This is a new pamphlet. This guidance prescribes, policy, responsibilities, and procedures on housekeeping, rehabilitation, and/or conversion of indoor firing ranges for other uses.

Applicability. This guidance applies to all persons responsible for the operation of Army National Guard (ARNG) and Air National Guard (ANG) indoor firing ranges. As no regulation/guidance can foresee all situations that might arise. The following is written in a broad scope and is intended to be interpreted as to the INTENT of the law by safety and health professionals.

Supplementation. Supplementation of this guidance is prohibited without prior approval from Chief, National Guard Bureau (NGB-AVN-SI)

Impact on Manning System. This guidance does not contain information that effects the Manning System.

Interim changes. Interim changes are not official unless they are authenticated by the Chief, Administrative Services. Users will destroy Interim changes on their expiration date unless sooner superseded or rescinded.

Suggested Improvements. The proponent of this publication is the National Guard Bureau Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Chief, National Guard Bureau, Attn: NGB-AVN-SI, 111 South George Mason Drive, Arlington, VA 22204-1382

Distribution. Distribution of this publication is made in accordance with the requirements on DA Form 12-09-E.

CONTENTS (Listed by paragraph numbers)

1. Purpose

This Pamphlet establishes policy and procedures for housekeeping, rehabilitation and conversion of indoor firing ranges for other uses.

2. References

Related publications are listed below.

a. Title 29 Code of Federal Regulations (CFR) Part 1910

b. DHEW NIOSH 76-130 (Lead Exposure and Design Considerations for indoor ranges)

c. OSHA instruction CPL 2-2.20B

d. DODI 6055.1 (Department of Defense Occupational Safety and Health Program)

e. AR 11-34 (The Army Respiratory Protection Program)

f. AR 40-5 (Preventive Medicine)

g. NGR 385-15 (Policy and Responsibilities for inspection/evaluation and use of National Guard Indoor Firing Ranges).

3. Explanation of abbreviations and terms
Abbreviations and special terms used in this publication are listed in the **glossary.**

4. Background.

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

5. Worker Education.

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

6. Personal Protective Equipment.

29 CFR 1910.1025 (f) (2), Respiratory Protection: For housekeeping and rehabilitation the employer shall select respirators from among those approved for protection against lead dust, fume, and mist by The Mine Safety and Health Administration, and the National Institute for Occupational Safety and Health (NIOSH), under the provision of 30 CFR.

(a) The employer shall institute a respiratory protection program in accordance with 29 CFR 1910.134 (b), (d), (e) and (f).

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

(1) Coveralls or similar full-body work clothing.

(2) Gloves, hats, and shoes or disposable shoe coverlets; and

(3) Appropriate respiratory protection.

(c) The employer shall provide the clothing required in a clean and dry condition at least weekly, and daily to employees engaged in the conversion of indoor firing ranges.

(d) The employer shall provide for the cleaning, laundering, or disposal of protective clothing and equipment.

(e) The employer shall assure that all protective clothing is removed at the completion of a work shift only in areas provided for that purpose.

(f) The employer will insure that contaminated protective clothing which is to be cleaned, laundered, or disposed of, is placed in a closed container in the change area which prevents dispersion of lead outside the container.

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

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

(i) The employer will prohibit the removal of lead from protective clothing or equipment by blowing, shaking, or any other means which disperses lead into the air.

7. Housekeeping.

This chapter applies to all active indoor ranges classified as safe for "use". To keep the range operating properly and to keep possible hazards to a minimum, a routine housekeeping/ maintenance program is essential.

(a) Housekeeping. The employer must establish a housekeeping program sufficient to maintain all surfaces as free as practicable of accumulations of lead dust. To this end the range will be clean at the conclusion of each firing day.

(1) The range ventilation system will be in operation during all cleaning operations, to ensure a negative pressure environment is maintained.

(2) Cleaning of the range will be accomplished by vacuuming or wet method. A HEPA filtered vacuum system is the preferred method of meeting this requirement. The use of compressed air to clean floors is absolutely prohibited. If the wet method is utilized the floor should be equipped with a floor drain, with a collection system, if not, water needs to be collected and allowed to slowly evaporate leaving lead deposits/sludge that may be collected, placed in metal drums, and stored for future delivery to an authorized hazardous material/waste disposal site. Drums must be labeled to identify contents, in coordination with the hazardous waste program.

(3) A NIOSH approved respirator for protection against lead dust, fume, and mist will be worn at all times while cleaning.

(4) When cleaning start behind the firing line forward, cleaning the floor and horizontal surfaces.

(b) Maintenance. Following are the minimum maintenance requirements, which must be performed quarterly by the range custodian, or by a person designated by the facility commander.

(1) Inspect the ventilation system fan for condition of belts to ensure that they are not frayed or slipping.

(2) Evaluate static pressure and compare to the baseline static pressure reading. Any changes will be reported through the safety manager to the Regional Industrial Hygienist.

(3) Inspect Louvers, if applicable, to ensure they are opening fully.

(4) Inspect the bullet trap for pitting or other damage and for sharp edges on venetian blind type bullet traps.

(c) Bullet Trap. The bullet trap will cleaned at a minimum quarterly, or when the trap is three quarters full.

(1) The range ventilation system will be operational during all bullet trap cleaning procedures.

(2) All personnel involved in cleaning of the bullet trap will wear a NIOSH approved respirator, and proper personal protective equipment.

(3) All debris from the bullet trap will be collected, package and turned in, in accordance with guidance from the environmental office.

8. Range Rehabilitation.

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

(a) The portion(s) of the range to under go rehabilitation, must be sampled to determine the level of lead contamination. One wipe sample will be taken per every three (3) square feet of area to be rehabilitated.

(b) All personnel involved in range rehabilitation will wear a NIOSH approved respirator, and proper personal protective equipment.

(c) Prior to start of rehabilitation the environmental office must be contacted for disposition of the lead containing debri to be removed.

9. Conversion of Indoor Ranges.

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

(a) All ranges targeted for conversion will be inspected and evaluated.

(b) All equipment stored in the range, if applicable, prior to the start of decontamination must be sampled, decontaminated, re-sampled and removed or turned in as lead contaminated material.

(c) All acoustical tiles and/or sound proofing material (if applicable) must be removed and turned in as lead containing material through the environmental office.

(d) The backstop, bullet trap, target retrieval system and firing line stations must be removed and turned in as lead containing material through the environmental office.

(e) Light fixtures and ventilation system grills must be removed and decontaminated.

(f) Ventilation system ducts need to be decontaminated or removed and replaced.

(g) The exhaust fans and/or the complete ventilation air handling unit (if applicable) need to be decontaminated or removed.

(h) Cover all openings of any component previously decontaminated prior to start of interior decontamination of the firing range.

(i) Prior to start of washing, the interior of the range should be vacuumed with a HEPA filtered vacuum. The range should be washed using a cleaning solution of hot water and Tri-Sodium Phosphate (one ounce of Tri-Sodium Phosphate to five gallons of hot water). A progression of cleaning from top to bottom, and from back to front should be used. All surface areas of the range must be cleaned. Mix new solutions of TSP frequently. Washing will require dual containers of water; one container for wetting the applicators (mops, rags, sponges, etc), and the other container for rinsing the applicators. Waste water placed into containers can be left to evaporate. **PROPELY DISPOSE OF ALL HAZARDOUS WASTE AND DO NOT PLACE ANY LEAD CONTAMINATED WASTE INTO THE SEWER SYSTEM OR ONTO THE GROUND.** Mop heads, sponges and rags will be discarded as hazardous waste following decontamination of the range. After completion of decontamination, and prior to taking clearance samples, the ventilation system must be ran for a minimum of 36 hours. Wipe clearance samples will be taken from ceiling, walls and floors. The range will be considered clean if no clearance sample is greater than 100 ug/sq ft, if samples are above 100 ug/sq ft the range is not considered clean, the range will need to be re-washed until clearance samples are below 100 ug/sq ft.

(j) The regional industrial hygienist will do Quality Assurance Sampling as needed.

(k) After obtaining clearance, the walls of the range will be coated with a sealant which is smooth, wood floors will receive a coat of deck enamel or urethane, concrete floors will be sealed with deck enamel. After sealing, floors will be tiled or covered with linoleum.

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

(m) All personnel involved in the decontamination/conversion of indoor ranges as

a minimum will be provided with the following personal protective equipment.

(1) Full Face air purifying respirator with HEPA cartridges. The requirements outlined in 29 CFR 1910.134, must be met prior to placing workers in respiratory protection.

(2) Individuals will be provided personal protective equipment as required per Paragraph 6, this pamphlet.

ALL PRIOR CONVERTED RANGES NOT CONVERTED UNDER THE ABOVE GUIDANCE MUST BE INSPECTED AND EVALUATED TO DETERMINE LEAD CONTAMINATION.

10. Medical Surveillance Requirements.

All medical surveillance required by the standard must be performed by or under the supervision of a licensed physician. Medical surveillance is triggered by the results of the air monitoring program. Medical surveillance must be made available to all employees who are exposed in excess of the action level for more than 30 days a year.

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

11. Wipe Sample Media/Protocol.

A template measuring 10 centimeters by 10 centimeters square, approximately 4 inches square, should be used to accurately measure and mark the area before collecting wipe samples.

Samples should be staggered to different areas of the range. A grid system should be utilized. Samples should not be collected all on one section of a wall, or end of the building.

OSHA instruction CPL 2-2.20B, provides the necessary guidance on the technique needed to collect wipe samples.

12. Point of Contact.

Deviations from this guidance will require a written exception to policy from your Regional Industrial Hygiene Office. Questions and/or comments regarding this subject should be directed to your Regional Industrial Hygiene Office or Chief, National Guard Bureau, ATTN: NGB-AVN-SI, 111 South George Mason Drive, Arlington, VA 22204-1382

Glossary:

Section I. Abbreviations

CFR Code of Federal Regulations

HEPA High Efficiency Particulate Filter

OSHA Occupational Safety and Health Administration

DHEW Department of Health, Education and Welfare

Section II: Terms

Clearance Sample: A wipe sample taken after decontamination, with no sample greater then 100 Micrograms per square foot.

Action Level: Employee exposure, without regard to the use of respirators, to an airborne concentration of lead of 30 micrograms per cubic meter of air (30 ug/m3) averaged over an 8-hour period.

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARMET-SEIH

August 19, 2008

MEMORANDUM THRU LT. Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. Non-Responsive, Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Metter National Guard Armory, Lead Sampling Survey, Metter, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface

wipe samples from the former Indoor Firing Range for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On July 16, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the Metter Armory Indoor Firing Range was filled with chairs, desks, tables and was currently used by the Chaplain for conducting religious services for soldiers. At the time of the site visit, five firing lanes were observed along with the bullet trap and metal sound deflectors attached to the ceiling of the former IFR. Additionally, there was metal caging present at the rear of the former indoor firing range, prohibiting access to the rear wall of the former IFR. As a result, lead wipe samples were collected from the metal caging for subsequent analysis. General construction was observed as concrete flooring and ceiling with cinder-block walls. It should be noted that the ceiling and walls of the former IFR were covered with sound-proofing materials. The sound proofing materials were removed at selected sample locations and the lead wipe samples were collected from the surface of the concrete and cinder-block walls.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Ghost Wipes™ are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 39 samples were collected including three from each surface area and one sample from the observed office furniture and firing lanes for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, four wipe samples were placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results indicate lead concentrations detected above the IFR post cleaning standard. These sampling results indicate that any previous decontamination activities were not adequate to remove the lead dust from the former range at acceptable levels. In accordance with the National Guard Bureau Pamphlet 420-15, the IFR cannot be converted for other uses until the lead dust levels are reduced to 200µg/ft^2 or lower depending on local requirements.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
MET-01	Upper Wall, Bullet Stop	268,000
MET-02	Middle Wall, Bullet Stop	113,000
MET-03	Lower Wall, Bullet Stop	216,000
MET-04	Upper Right Wall	2,820
MET-05	Middle Right Wall	67
MET-06	Lower Right Wall	111
MET-07	Upper Rear Wall	221
MET-08	Middle Rear Wall	153
MET-09	Lower Rear Wall	189
MET-10	Upper Left Wall	BRL
MET-11	Middle Left Wall	BRL
MET-12	Lower Left Wall	23
MET-13	Floor at Bullet Stop	1,840
MET-14	Middle Floor	197
MET-15	Floor at Rear Wall	220
MET-16	Ceiling at Bullet Stop	BRL
MET-17	Middle Ceiling	BRL
MET-18	Ceiling at Rear Wall	BRL
MET-19	Field Blank	BRL
MET-20	Firing Lane 1	58
MET-21	Firing Lane 2	69
MET-22	Firing Lane 3	67
MET-23	Firing Lane 4	86
MET-24	Firing Lane 5	45
MET-25	Field Blank	BRL
MET-26	Wooden Storage Box	26
MET-27	Plastic Storage Box	BRL
MET-28	Chaplains Desk	BRL
MET-29	Table	BRL
MET-30	Vacant Desk	58
MET-31	Field Blank	BRL
MET-32	Blue Chair at IFR Entrance	BRL
MET-33	White Chair 1st Row of Chairs	139
MET-34	White Chair 2nd Row of Chairs	BRL
MET-35	Metal Sound Deflector at Bullet Trap	115
MET-36	Metal Sound Deflector	2,290
MET-37	Top of Black Housing at Firing Lane 2	802
MET-38	Field Blank	BRL
MET-39	2-Drawer File	BRL

[1] Results reported in micrograms per square feet (µg/ft²)
[2] BRL = Below Reportable Limits

The laboratory report including the Chain of Custody records are attached for review.

4. Recommendations.

a. Ensure that the former indoor firing range remains closed and secured to prevent unauthorized entry into this area.

b. Review NG Bureau Pamphlet 420-15 prior to conducting decontamination of the IFR and conduct cleaning activities in accordance with the regulatory document. Keep in mind that EPA (40 CFR Subpart D) and your state may have lead reduction levels lower than the levels recommended in NG Bureau Pamphlet 420-15.

c. Prior to initiating decontamination activities and in accordance with 29 CFR 1910.1025, perform and conduct training for employees exposed to lead concentrations above the standard or who may suffer skin or eye irritation from exposure to lead.

d. Ensure that appropriate personal protective equipment is worn during decontamination activities.

e. Consult with local Environmental Agency for guidance on proper disposal of materials used in decontaminating the IFR.

f. Upon completion of the decontamination activities, contact the Regional IH office for evaluation and collection of confirmatory lead dust samples.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 28, 2008

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Metter Armory

Order No.: 0807E51

Dear Non-Responsive

Analytical Environmental Services, Inc. received 39 samples on 7/21/2008 9:45:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 7 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0807E51
Date: 7/17/08 Page 1 of 3

COMPANY: Region South IH Office
ADDRESS: 510 Plaza Drive College Park, GA 30349
PHONE: 4/559-4174
FAX: 4/559-4175
SAMPLED BY: [redacted]
SIGNATURE:

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

ANALYSIS REQUESTED: Lead

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No # of Containers
1	MET-01	7/16/08		X		Wipe	X	1'x 1' sample	1
2	MET-02			X		Wipe	X		1
3	MET-03			X		Wipe	X		1
4	MET-04			X		Wipe	X		1
5	MET-05			X		Wipe	X		1
6	MET-06			X		Wipe	X		1
7	MET-07			X		Wipe	X		1
8	MET-08			X		Wipe	X		1
9	MET-09			X		Wipe	X		1
10	MET-10			X		Wipe	X		1
11	MET-11			X		Wipe	X		1
12	MET-12			X		Wipe	X		1
13	MET-13			X		Wipe	X		1
14	MET-14			X		Wipe	X		1

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted]	7/18/08/1700	FedEx	7/18/08/1700
		[redacted]	7/21/08 9:45

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT VIA
IN VIA
CLIENT (FedEx) UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Metter Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 14

Turnaround Time Request
● Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 337E51

Date: 7/18/08 Page 2 of 3

COMPANY: Region South I N office
ADDRESS: 510 Plaza Drive College Park, GA 30349
PHONE: 4 / 559-4174
FAX: 4 / 559-4175
SAMPLED BY: [redacted] Non-Response
SIGNATURE

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. of Containers
1	MET-15	7/16/08		X		WPE	X	1' x 1' Sample	1
2	MET-16			X		"	X	" "	1
3	MET-17			X		"	X	" "	1
4	MET-18			X		"	X	" "	1
5	MET-19			X		"	X	—	1
6	MET-20			X		"	X	2' x 1' Sample	1
7	MET-21			X		"	X	" "	1
8	MET-22			X		"	X	" "	1
9	MET-23			X		"	X	" "	1
10	MET-24			X		"	X	—	1
11	MET-25			X		"	X	1' x 1' Sample	1
12	MET-26			X		"	X	" "	1
13	MET-27			X		"	X	" "	1
14	MET-28			X		"	X	" "	1

RELINQUISHED BY: [redacted] Non-Response — DATE/TIME: 7/18/08/1700
RECEIVED BY: Fed Ex — DATE/TIME: 7/18/08/1700
RECEIVED BY: [redacted] Non-Response — DATE/TIME: 7/21/08 9:25

PROJECT INFORMATION
PROJECT NAME: Mettler Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted] Non-Response
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: PO#:

RECEIPT
Total # of Containers: 14

Turnaround Time Request
(●) Standard 5 Business Days
( ) 2 Business Day Rush
( ) Next Business Day Rush
( ) Same Day Rush (auth req.)
( ) Other

STATE PROGRAM (if any):
E-mail? Y N Fax? Y N
DATA PACKAGE: I II IIi IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: VIA:
IN: VIA:
CLIENT (FedEx) UPS MAIL COURIER
GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+ = Hydrochloric acid + ice I = Ice only N = Nitric acid S+ = Sulfuric acid + ice S/M+ = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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Record #U112-0085 (GA)

Page 194 of 378

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0807-1-21

Date: 7/18/08 Page 3 of 3

COMPANY: Region South IN Office
ADDRESS: 510 Plaza Drive, College Park, GA
PHONE: 4/559-4174
FAX: 4/559-4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No # of Containers
1	MET-29	7/16/08		X		wipe	X	1'x1' sample	1
2	MET-30	↓		X		"	X	" "	1
3	MET-31			X		"	X	—	1
4	MET-32			X		"	X	1'x1' sample	1
5	MET-33			X		"	X	" "	1
6	MET-34			X		"	X	" "	1
7	MET-35			X		"	X	" "	1
8	MET-36			X		"	X	" "	1
9	MET-37			X		"	X	" "	1
10	MET-38			X		"	X	—	1
11	MET-39	↓		X		"	X	1'x1' sample	1
12									

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted]	7/18/08/1700	1. Fed Ex	7/18/08/1700
		2. [redacted]	7/21/08 9:45
		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT VIA
IN VIA
CLIENT (FedEx) UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Metter Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 11

Turnaround Time Request
● Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA Army Nat. Guard Work Order Number 0807E51

Checklist completed by Non-Responsive 7/21/08
Sig Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Non-Responsive Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)* 7/21/08	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: 7/28/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Metter Armory
Delivery Order:
PO No:

Lab Order: 0807E51
Date Received: 7/21/2008 9:45 AM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0807E51-001A	MET-01	268000	µg/ft²	10100	507	7/16/2008	7/28/2008	JY
0807E51-002A	MET-02	113000	µg/ft²	2720	136	7/16/2008	7/28/2008	JY
0807E51-003A	MET-03	216000	µg/ft²	8160	408.25	7/16/2008	7/28/2008	JY
0807E51-004A	MET-04	2820	µg/ft²	89	4.45	7/16/2008	7/28/2008	JY
0807E51-005A	MET-05	67	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-006A	MET-06	111	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-007A	MET-07	221	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-008A	MET-08	153	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-009A	MET-09	189	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-010A	MET-10	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-011A	MET-11	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-012A	MET-12	23	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-013A	MET-13	1840	µg/ft²	67	3.33	7/16/2008	7/28/2008	JY
0807E51-014A	MET-14	197	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-015A	MET-15	220	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-016A	MET-16	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-017A	MET-17	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-018A	MET-18	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-019A	MET-19	BRL	ug, Total	20	1	7/16/2008	7/28/2008	JY
0807E51-020A	MET-20	58	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-021A	MET-21	69	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-022A	MET-22	67	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-023A	MET-23	86	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-024A	MET-24	45	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-025A	MET-25	BRL	ug, Total	20	1	7/16/2008	7/28/2008	JY
0807E51-026A	MET-26	26	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-027A	MET-27	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-028A	MET-28	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-029A	MET-29	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-030A	MET-30	58	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-031A	MET-31	BRL	ug, Total	20	1	7/16/2008	7/28/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

Analytical Environmental Services, Inc.

Date: 7/28/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Metter Armory
Delivery Order:
PO No:

Lab Order: 0807E51
Date Received: 7/21/2008 9:45 AM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0807E51-032A	MET-32	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-033A	MET-33	139	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-034A	MET-34	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-035A	MET-35	115	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-036A	MET-36	2290	µg/ft²	78	3.89	7/16/2008	7/28/2008	JY
0807E51-037A	MET-37	802	µg/ft²	20	1	7/16/2008	7/28/2008	JY
0807E51-038A	MET-38	BRL	ug, Total	20	1	7/16/2008	7/28/2008	JY
0807E51-039A	MET-39	BRL	µg/ft²	20	1	7/16/2008	7/28/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

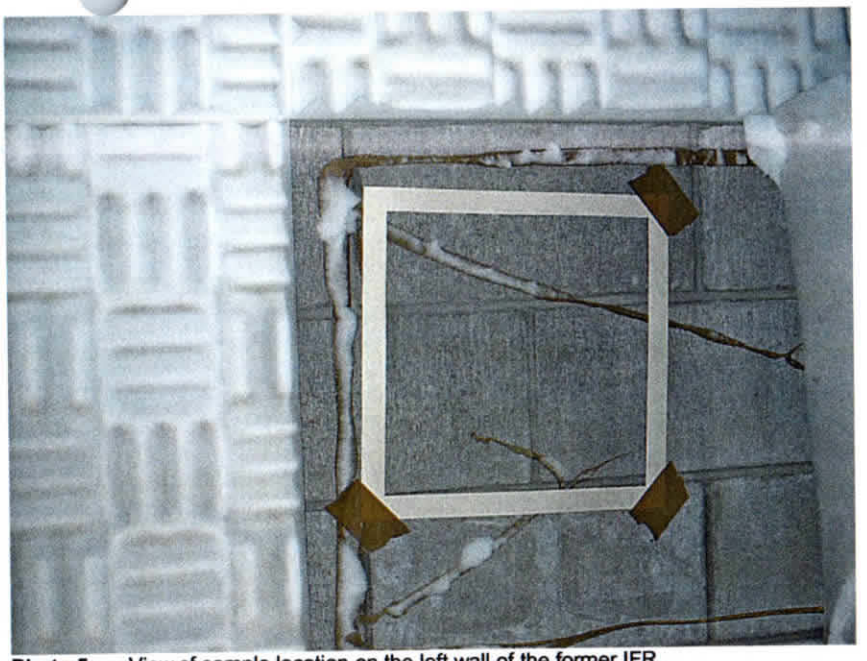


Photo 5: View of sample location on the left wall of the former IFR.

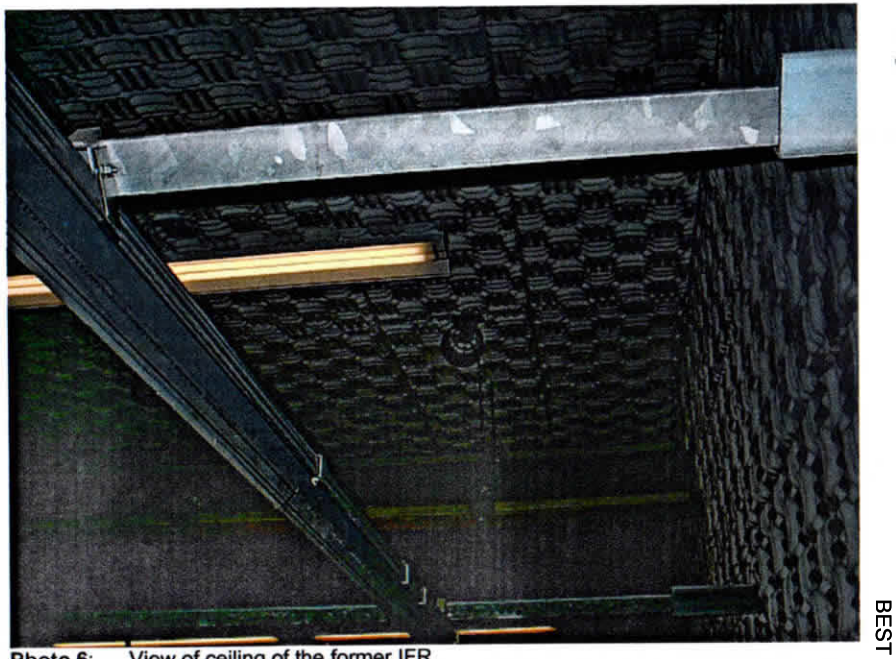


Photo 6: View of ceiling of the former IFR

Photo 7: View of firing lanes observed in the former IFR.

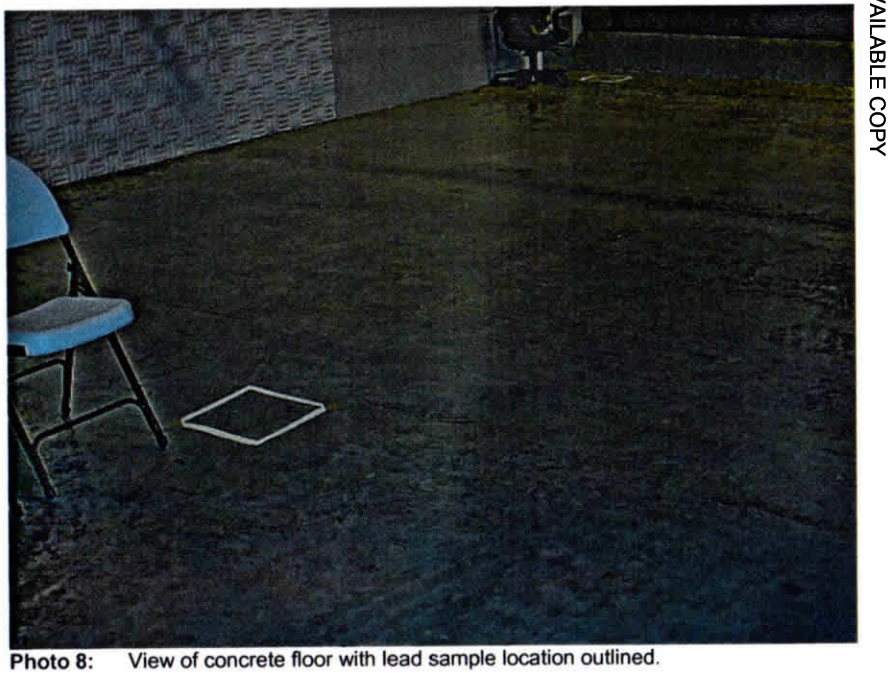


Photo 8: View of concrete floor with lead sample location outlined.

Project Name: Metter Georgia Armory

Date Photos Taken: 16 July 2008

Photo 1: View of the exterior of the Metter, Georgia National Guard Armory.

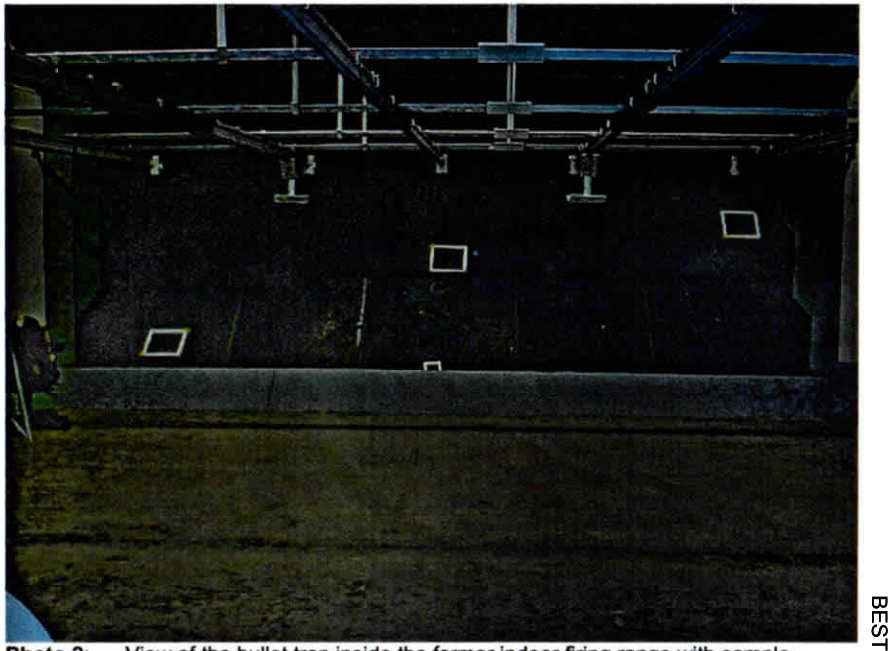


Photo 2: View of the bullet trap inside the former indoor firing range with sample locations.

Photo 3: View of right wall with acoustical material observed.

Photo 4: View of metal fencing observed at the rear of the former IFR.

Project Name: Metter Georgia Armory

Date Photos Taken: 16 July 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH

November 18, 2009

MEMORANDUM THRU LT. [redacted] Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Ms. [redacted] Georgia Army National Guard, CFMO, 935 Confederate Ave, Bldg 21, Second floor, Atlanta, GA 30316.

SUBJECT: Metter National Guard Armory, Lead Sampling Survey 11 November 2009, Metter, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by Ms. Non-Responsive CFMO. Clearance sampling was conducted at the referenced site. The objective of the visit was to determine if the Indoor Firing Range was free of lead after clean-up by contractor.

b. Mr. Non-Responsive Regional Industrial Hygienist with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the lead sampling.

3. Findings. The laboratory results indicate lead concentrations detected above the IFR post cleaning standard in two locations.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
MKF-601	Floor left side bullet stop area	BRL
MKF-602	Center bullet stop area	81
MKF-603	Floor right bullet stop area	65
MKF-604	Floor left of bullet stop	245
MKF-605	Floor right of bullet stop	45
MKF-606	Floor 10 feet center bullet stop	31
MKF-607	Floor rear right	21
MKF-608	Floor at IFR exit	991
MKF-609	Lower left wall at bullet stop	21
MKF-610	Middle right wall at bullet stop	BRL
MKF-611	Floor 15 feet center bullet stop	BRL
MKF-612	Blank	BRL
MKF-613	Blank	BRL
MKF-614	Blank	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report and a diagram of where samples were taken are attached for review.

4. Recommendations. Reclean the two areas of concern that exceed the standard of 200 micro grams per foot squared.

5. If additional information is needed about the contractors report, please contact Non-Responsive Regional Industrial Hygienist at 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

Analytical Environmental Services, Inc.

Date: 11/17/2009

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Metter Armory
Delivery Order:
PO No:

Lab Order: 0911A59
Date Received: 11/13/2009 2:25 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0911A59-001A	MKF-601	BRL	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-002A	MKF-602	81	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-003A	MKF-603	65	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-004A	MKF-604	245	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-005A	MKF-605	45	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-006A	MKF-606	31	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-007A	MKF-607	21	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-008A	MKF-608	991	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-009A	MKF-609	21	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-010A	MKF-610	BRL	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-011A	MKF-611	BRL	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-012A	MKF-612	BRL	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-013A	MKF-613	BRL	ug, Total	20	1	11/10/2009	11/16/2009	MAW
0911A59-014A	MKF-614	BRL	ug, Total	20	1	11/10/2009	11/16/2009	MAW

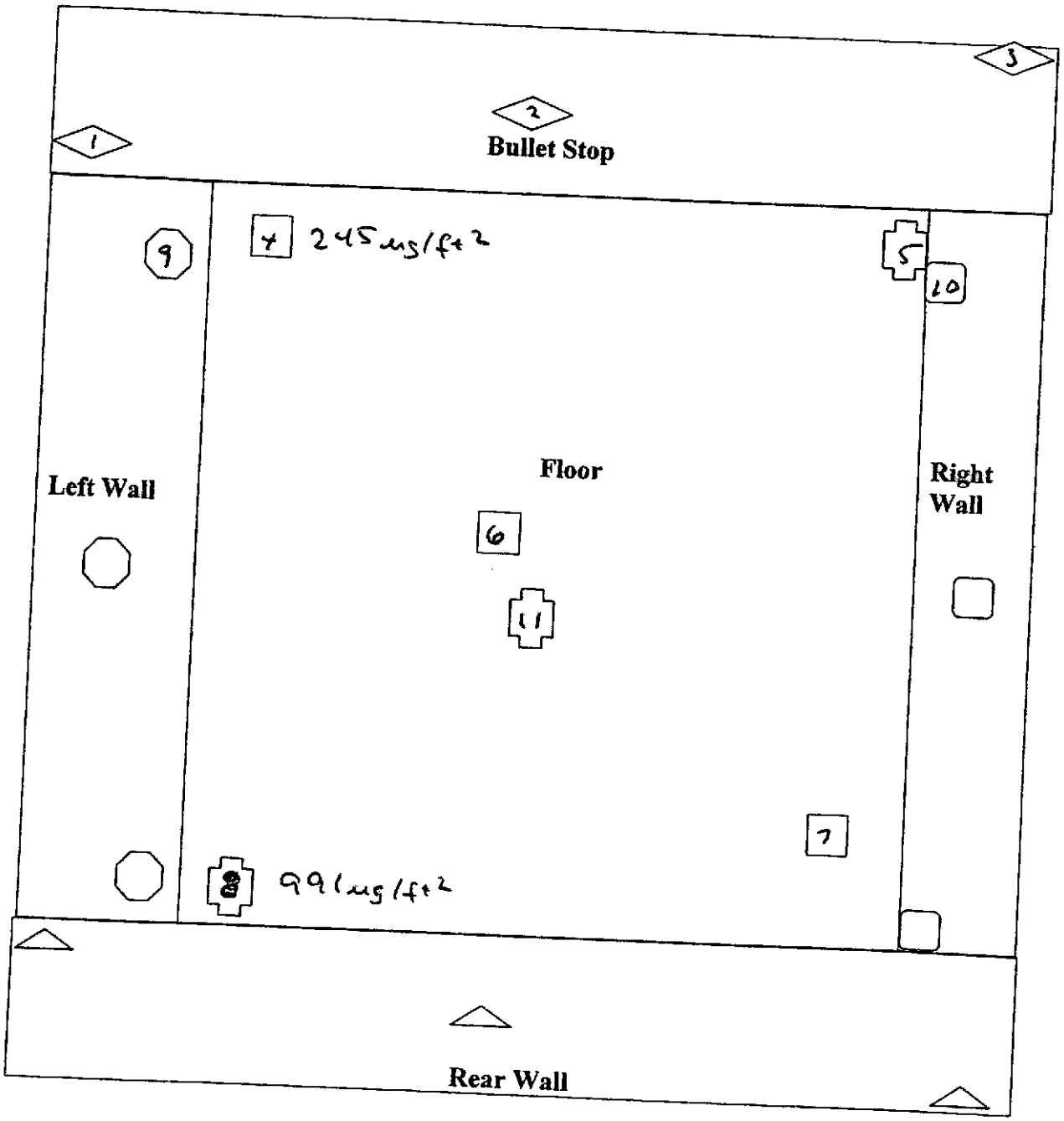
Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

Indoor Firing Range Diagram

Site Location Meter

Survey Date 11/22/09



Legend

Sample key:

□ - Floor sample

◇ - Bullet stop floor

⬡ - Left wall

△ - Rear Wall

▢ - Right wall

MCF - 612
613

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SEIH September 9, 2008

MEMORANDUM THRU LT. [redacted] Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. [redacted] Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Montezuma National Guard Armory, Lead Sampling Survey, Montezuma, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On August 15, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR appeared to have undergone conversion to a training/classroom. The flooring was observed to be covered with vinyl floor tile and there was a drop ceiling present completed with 2 feet by 2 feet acoustical ceiling panels. Painted cinder-block walls were observed and there were offices constructed in the area identified as the former location of the bullet stop. There was however, exposed concrete flooring and original ceiling materials observed inside the electrical room located at the rear of the former IFR. As a result of the renovation activities completed in the former IFR, original surface exposure was limited.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling were used to collect dust samples. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 16 samples were collected from exposed surface areas. Collected samples were submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results did not indicate the presence of lead concentrations above the IFR post cleaning standard of 200 micrograms per feet squared ($\mu g/ft^2$). These sampling results indicate that any previous decontamination activities appear to be adequate to remove the lead dust from the former range at acceptable levels. It should be noted that the sampling activities were completed in a former IFR which has undergone conversion/renovation.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
MON-01	Middle Wall at Former Bullet Stop	BRL[2]
MON-02	Lower Right Wall	BRL
MON-03	Middle Right Wall	BRL
MON-04	Upper Right Wall	BRL
MON-05	Lower Rear Wall	BRL
MON-06	Middle Rear Wall	BRL
MON-07	Upper Rear Wall	BRL
MON-08	Lower Left Wall	BRL
MON-09	Middle Left Wall	BRL
MON-10	Upper Left Wall	BRL
MON-11	Floor, Rear of Former IFR	BRL
MON-12	Floor, Rear of Former IFR	BRL
MON-13	Floor Outside of Former Bullet Stop	BRL
MON-14	Field Blank	BRL
MON - 15	Tabletop at Former Bullet Stop	BRL
MON-16	Metal Wall Locker Top	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. In as much as the former IFR at the Montezuma Armory has been converted to a training room, it appears that lead dust is not present at concentrations above the NGB standard. It should be noted that the sampling activities were limited to exposed areas observed inside the former IFR.

b. In accordance with NGB Pamphlet 420-15, continue lead testing on an annual basis to verify that lead has not migrated from the substrate. The annual sampling shall include areas of the ceiling, walls and floors. Following the annual sampling event, if lead concentrations are less than 200 $\mu g/ft^2$, the walls of the former IFR shall be coated with a lead dust encapsulant. Conventional paint can not be used as an encapsulant. It should be noted that the referenced guidance document does not address coating the ceiling. However, it appears that the presence of the drop ceiling with acoustical ceiling panels would be sufficient barrier to prevent potential lead migration and exposure.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 22, 2008

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349
TEL: (404) 559-4174
FAX (404) 559-4175

RE: Montezuma Armory

Order No.: 0808A31

Dear Non-Responsive

Analytical Environmental Services, Inc. received 16 samples on 8/15/2008 2:05:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 5 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 08A31

Date: 8/15/08 Page 1 of 2

COMPANY: Region South I H Office

ADDRESS: 570 Plaza Drive College Park, GA 30349

PHONE: 4/559-4174

FAX: 4/559-4175

SAMPLED BY: [redacted]

SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No # of Containers
1	Mon - 01	8/14/08		X		wipe	X	1' X 1' sample	1
2	Mon - 02			X			X		1
3	Mon - 03			X			X		1
4	Mon - 04			X			X		1
5	Mon - 05			X			X		1
6	Mon - 06			X			X		1
7	Mon - 07			X			X		1
8	Mon - 08			X			X		1
9	Mon - 09			X			X		1
10	Mon - 10			X			X		1
11	Mon - 11			X			X		1
12	Mon - 12			X			X		1
13	Mon - 13			X			X	1' x 1' sample	1
14	Mon - 14			X			X		1

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1. [redacted]	8/15/08/1405	1. [redacted]	8-15-08 14:05
2.		2.	
3.		3.	

PROJECT INFORMATION
PROJECT NAME: Montezuma Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: PO#:

RECEIPT
Total # of Containers: 14

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other ____

STATE PROGRAM (if any): ____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT (circled) FedEx UPS MAIL COURIER
GREYHOUND OTHER ____

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

BEST AVAILABLE COPY

ANALYTICAL ENVIRONMENTAL SERVICES, INC

AES
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 08A431

Date: 8/16/08 Page 2 of 2

COMPANY: Region South IH Office

ADDRESS: 510 Plaza Dr. College Park, GA 30349

PHONE: 4/559-4174

FAX: 4/559-4175

SAMPLED BY: [redacted]

SIGN: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	No # of Containers	REMARKS
1	Mon - 15	8/14/08		X		Wipe	X	1	1' x 1' Sample
2	Mon - 16	8/14/08		X		Wipe	X	1	1' x 1' Sample
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

ANALYSIS REQUESTED

PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY: [redacted] DATE/TIME: 8/15/08/1405

RECEIVED BY: 1. [redacted] DATE/TIME: 8-15-08

2: 14:05

3.

PROJECT INFORMATION

PROJECT NAME: Montezuma Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: [redacted]

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 2

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any)

E-mail? Y / N Fax? Y / N

DATA PACKAGE I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA

IN / / VIA

(CLIENT) FedEx UPS MAIL COURIER

GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + Ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SAM+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Region South/GA Army Work Order Number 0808A31

Checklist completed [redacted] 8/15/08
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes [redacted]	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

I:\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc.

Date: 8/25/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Montezuma Armory
Delivery Order:
PO No:

Lab Order: 0808A31
Date Received: 8/15/2008 2:05 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0808A31-001A	MON-01	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-002A	MON-02	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-003A	MON-03	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-004A	MON-04	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-005A	MON-05	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-006A	MON-06	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-007A	MON-07	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-008A	MON-08	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-009A	MON-09	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-010A	MON-10	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-011A	MON-11	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-012A	MON-12	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-013A	MON-13	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-014A	MON-14	BRL	ug, Total	20	1	8/14/2008	8/21/2008	JY
0808A31-015A	MON-15	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY
0808A31-016A	MON-16	BRL	µg/ft²	20	1	8/14/2008	8/21/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

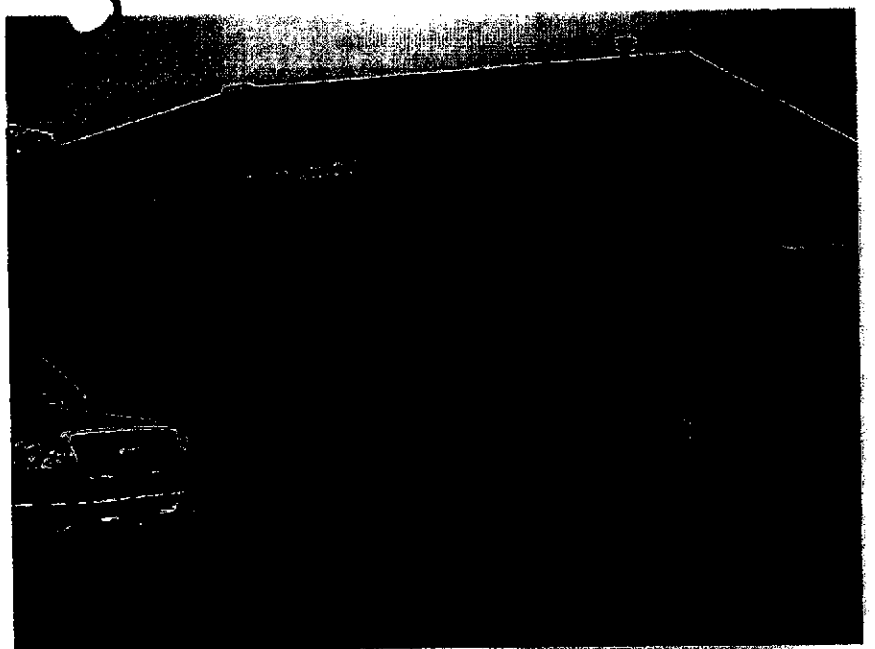


Photo 1: View of the exterior of the Montezuma, Georgia National Guard Armory.

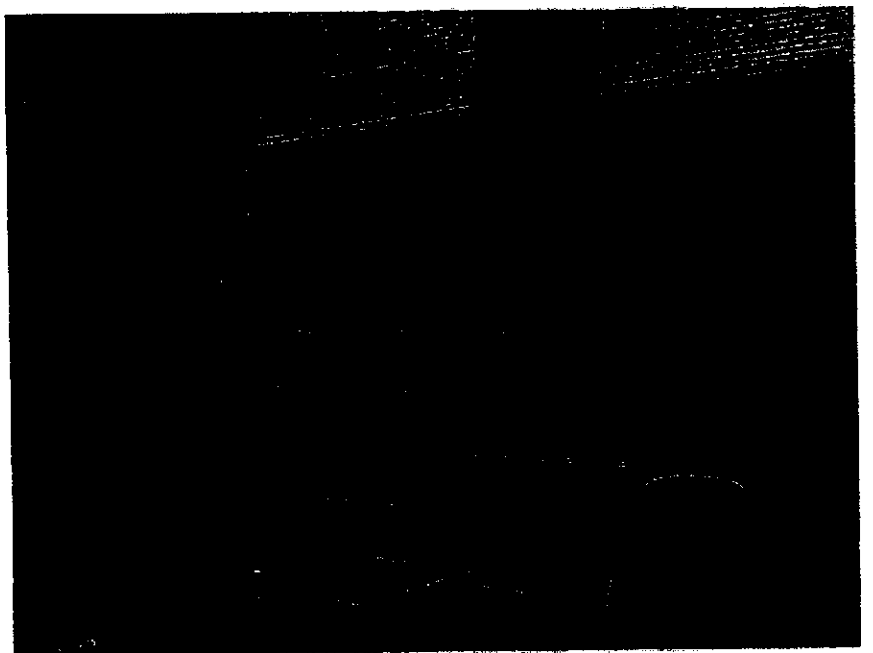


Photo 3: View of right wall with painted surface.

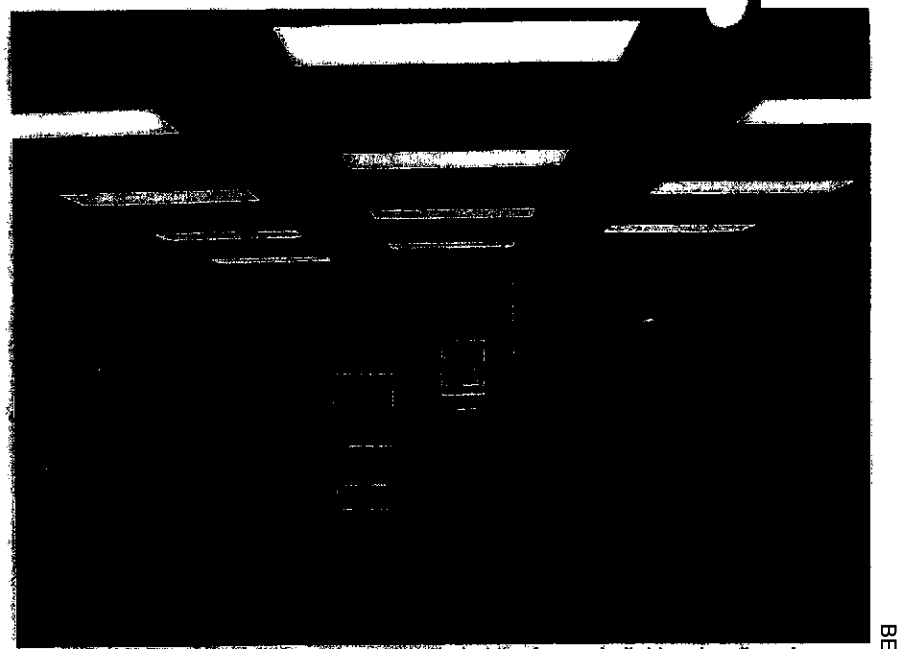


Photo 2: View of the office walls constructed at the former bullet trap location along with the wall lockers present during the site visit.

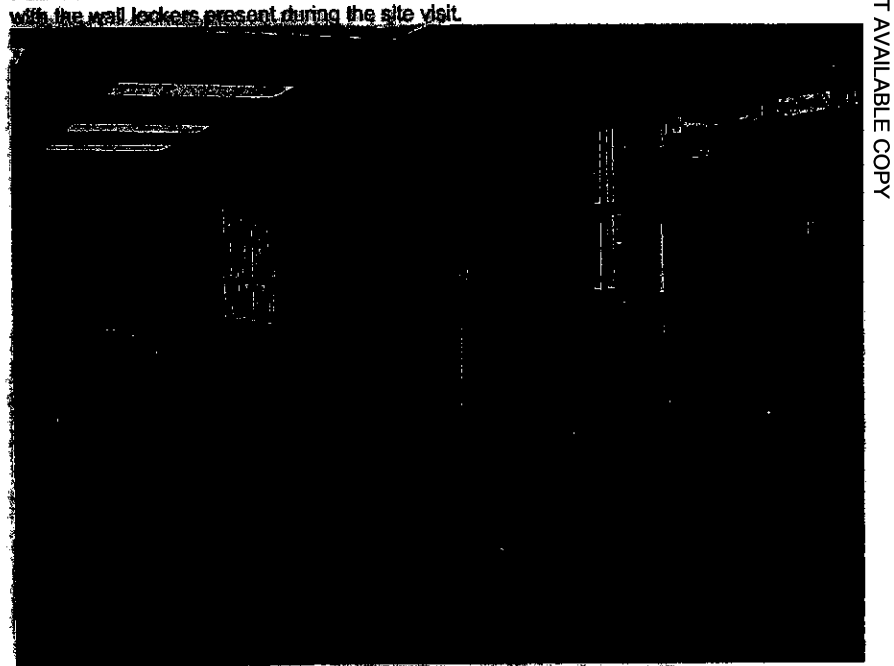


Photo 4: View of left wall with painted surface inside the former IFR.

Project Name: Montezuma, Georgia Armory

Date Photos Taken: 14 August 2008

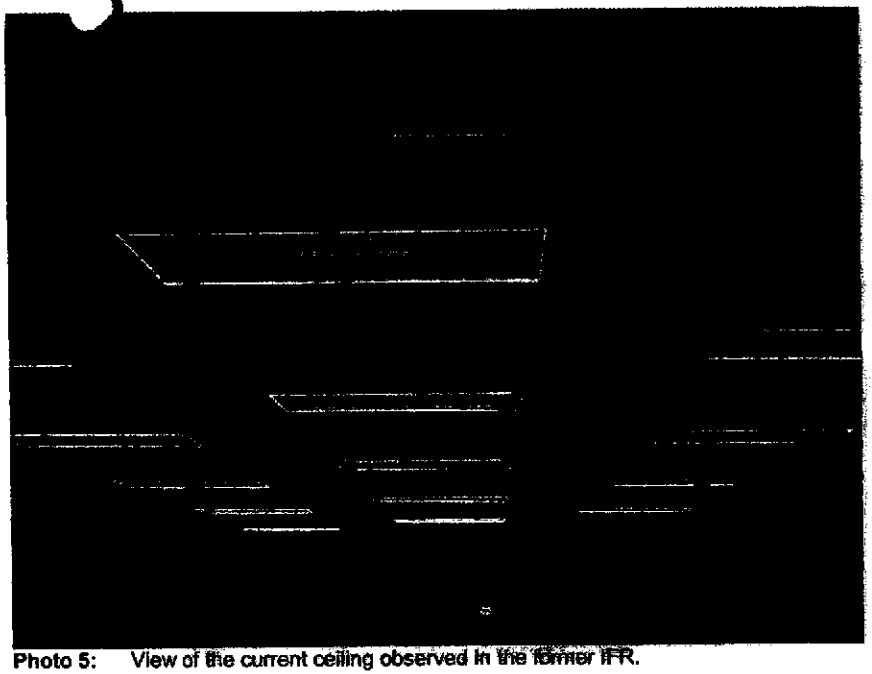


Photo 5: View of the current ceiling observed in the former IFR.

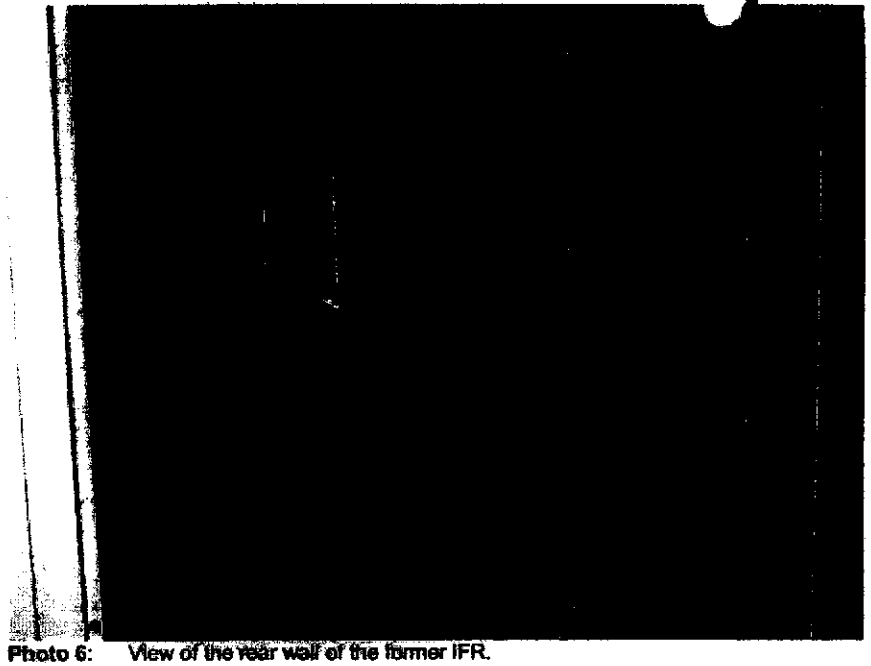


Photo 6: View of the rear wall of the former IFR.

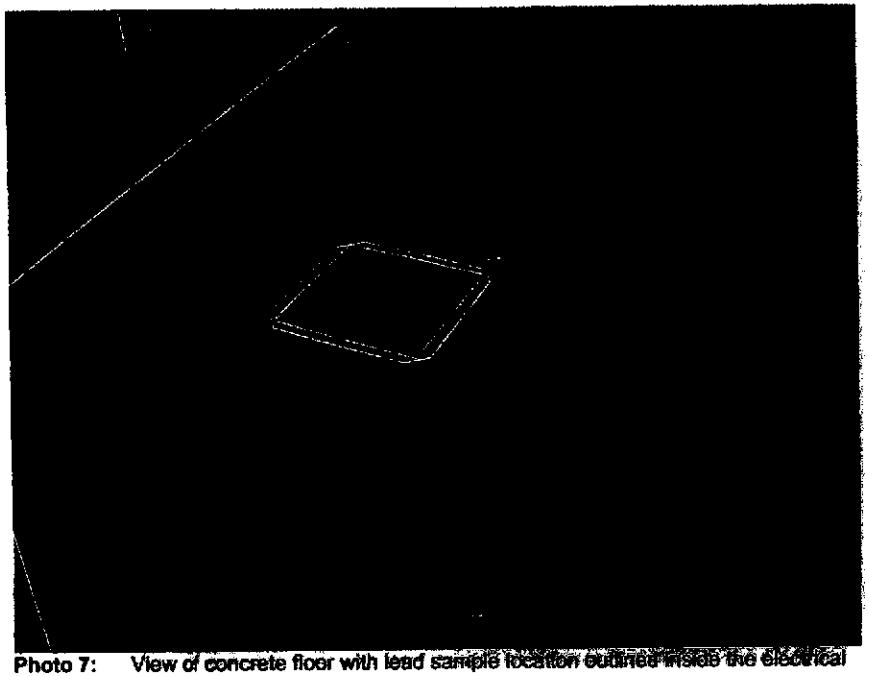


Photo 7: View of concrete floor with lead sample location outlined inside the electrical room.

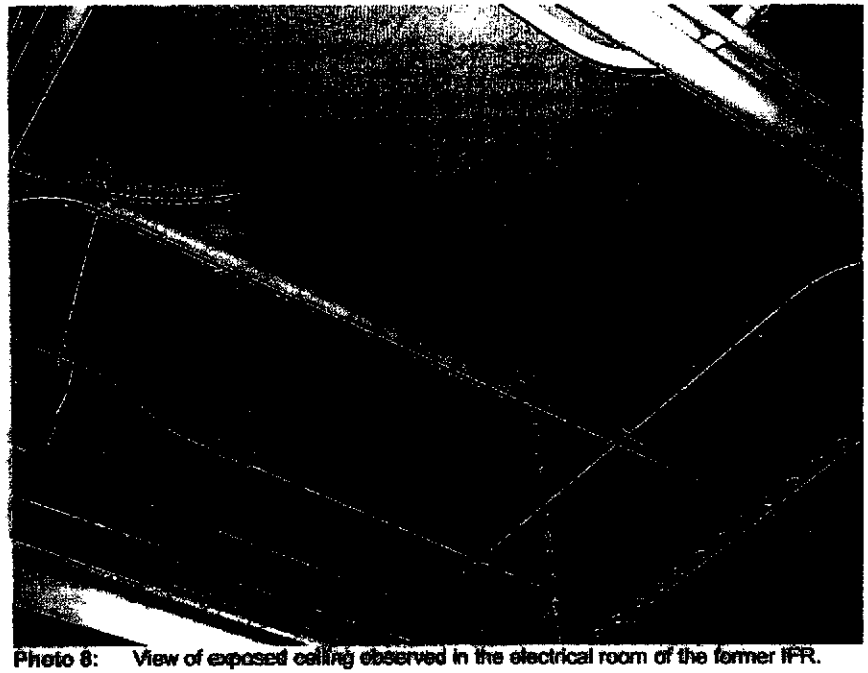


Photo 8: View of exposed ceiling observed in the electrical room of the former IFR.

Project Name: Montezuma, Georgia Armory

Date Photos Taken: 14 August 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARMOU-SEIH July 31, 2008

MEMORANDUM THRU LT Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Moultrie National Guard Armory, Lead Sampling Survey, Moultrie, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On July 16, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR was emptied of the bullet stop and firing line. There were several desk, freezers, and storage units along with a metal safe observed inside the former IFR. It was also noted that the armory was vacant and no longer in use. The surface areas inside the former IFR were observed to be constructed of cinder-block walls with concrete floors and the ceiling was constructed of concrete-type mesh.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Ghost Wipes™ are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 32 samples were collected including three from each surface area and one sample from the observed office furniture and appliances for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, three wipe samples were placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results indicate lead concentrations detected above the IFR post cleaning standard. These sampling results indicate that any previous decontamination activities were not adequate to remove the lead dust from the former range at acceptable levels. In accordance with the National Guard Bureau Pamphlet 420-15, the IFR cannot be converted for other uses until the lead dust levels are reduced to 200µg/ft^2 or lower depending on local requirements.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
MOU-01	Upper Wall, Bullet Stop	BRL[2]
MOU-02	Middle Wall, Bullet Stop	643
MOU-03	Lower Wall, Bullet Stop	BRL
MOU-04	Upper Right Wall	40
MOU-05	Middle Right Wall	94
MOU-06	Lower Right Wall	372
MOU-07	Upper Rear Wall	201
MOU-08	Middle Rear Wall	2,540
MOU-09	Lower Rear Wall	533
MOU-10	Upper Left Wall	BRL
MOU-11	Middle Left Wall	BRL
MOU-12	Lower Left Wall	22
MOU-13	Floor at Bullet	371
MOU-14	Middle Floor	612
MOU-15	Floor at Rear Wall	181
MOU-16	Ceiling at Bullet Stop	BRL
MOU-17	Middle Ceiling	BRL
MOU-18	Ceiling at Rear Wall	BRL
MOU-19	Field Blank	BRL
MOU-20	Metal Desk w/Wooden Top	105
MOU-21	Metal Desk, Gray	775
MOU-22	Metal Desk, Green	125
MOU-23	Freezer	276
MOU-24	File Unit, Beige	170
MOU-25	Freezer, Stainless Steel	340
MOU-26	Field Blank	399
MOU-27	Freezer, 2-Door	49
MOU-28	Wooden Storage Unit	330
MOU-29	Metal Storage Unit	247
MOU-30	Metal Safe	353
MOU-31	Metal Storage Unit at IFR Entrance	50
MOU-32	Field Blank	84

[1] Results reported in micrograms per square feet (µg/ft²)
[2] BRL = Below Reportable Limits

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. Ensure that the former indoor firing range remains closed and secured to prevent unauthorized entry into this area.

b. Review NG Bureau Pamphlet 420-15 prior to conducting decontamination of the IFR and conduct cleaning activities in accordance with the regulatory document. Keep in mind that EPA (40 CFR Subpart D) and your state may have lead reduction levels lower than the levels recommended in NG Bureau Pamphlet 420-15.

c. Prior to initiating decontamination activities and in accordance with 29 CFR 1910.1025, perform and conduct training for employees exposed to lead concentrations above the standard or who may suffer skin or eye irritation from exposure to lead.

d. Ensure that appropriate personal protective equipment is worn during decontamination activities.

e. Consult with local Environmental Agency for guidance on proper disposal of materials used in decontaminating the IFR.

f. Upon completion of the decontamination activities, contact the Regional IH office for evaluation and collection of confirmatory lead dust samples.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

Photo 1: View of the exterior of the Moultrie, Georgia National Guard Armory.

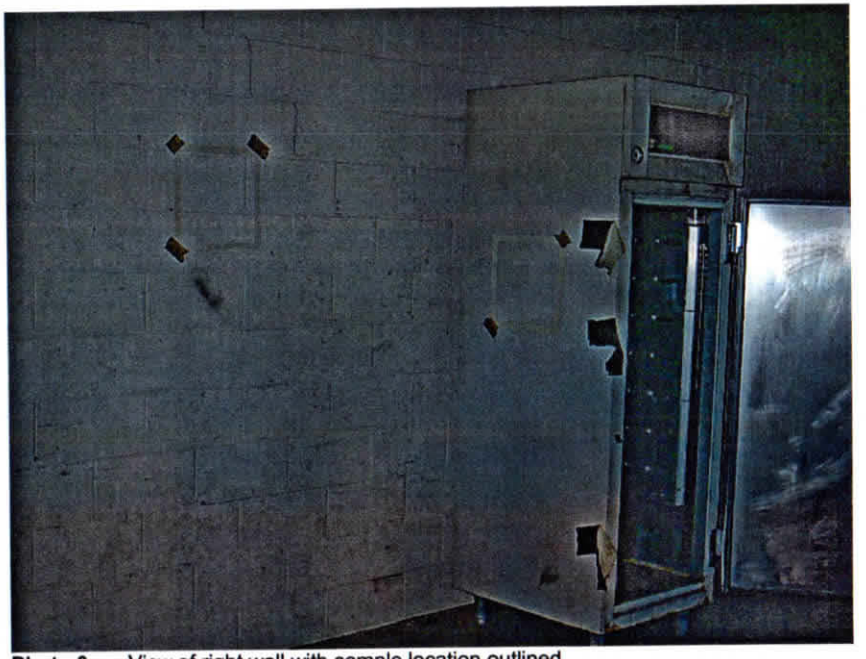


Photo 3: View of right wall with sample location outlined.

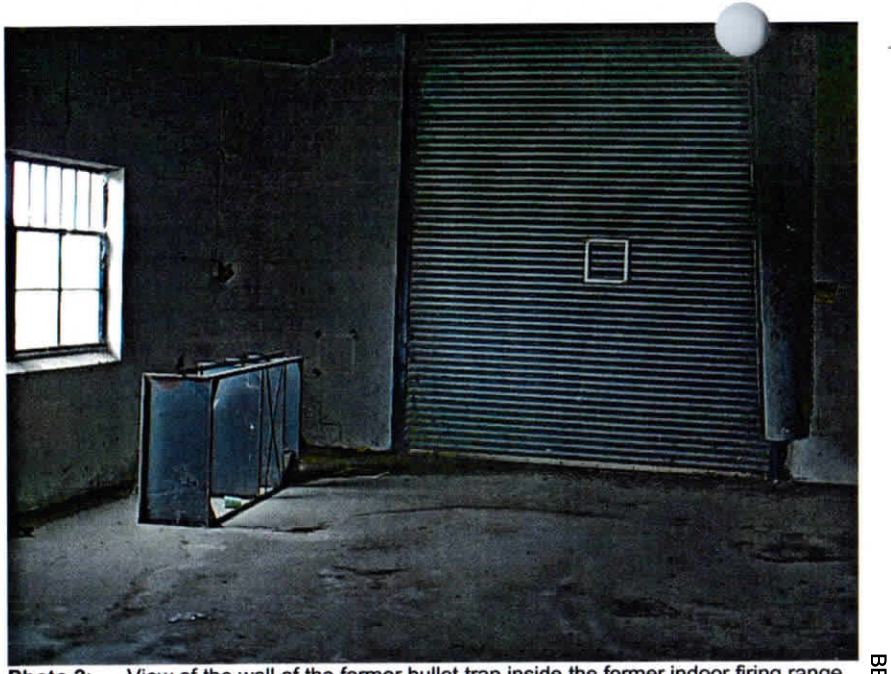


Photo 2: View of the wall of the former bullet trap inside the former indoor firing range with sample locations.

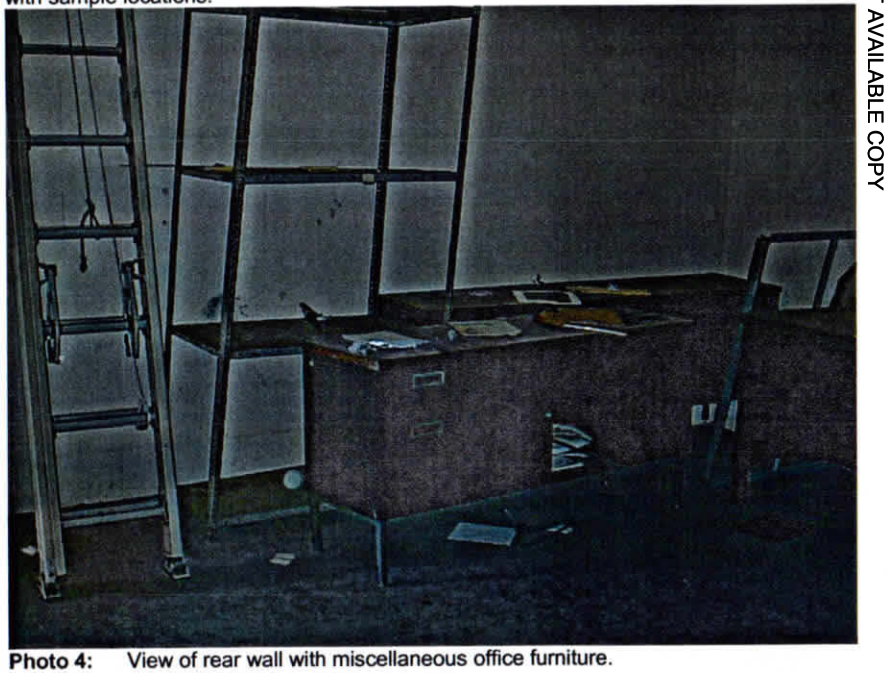


Photo 4: View of rear wall with miscellaneous office furniture.

Project Name: Moultrie Georgia Armory

Date Photos Taken: 17 July 2008

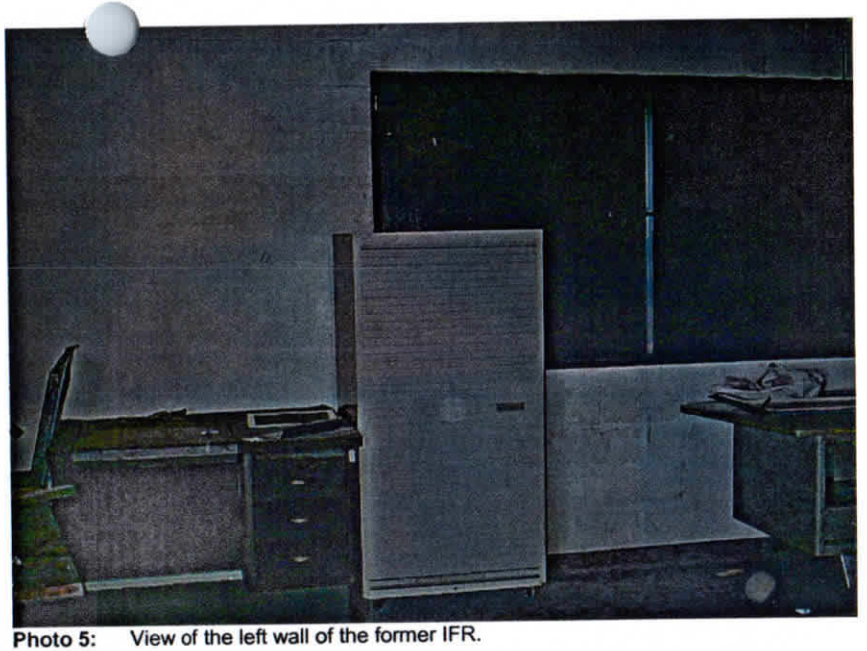


Photo 5: View of the left wall of the former IFR.

Photo 6: View of ceiling of the former IFR

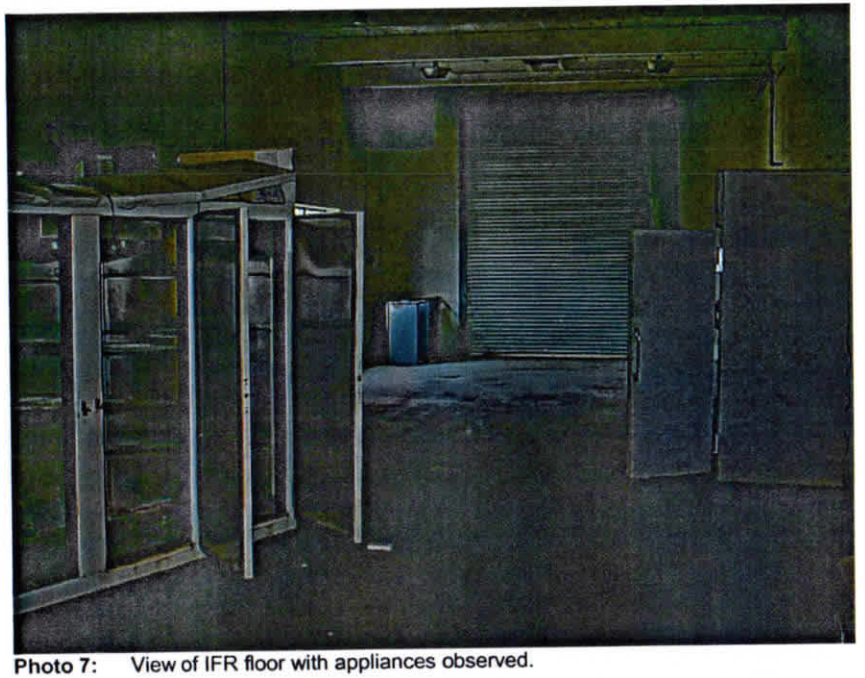


Photo 7: View of IFR floor with appliances observed.

Photo 8: View of concrete floor with lead sample location outlined.

Project Name: Moultrie Georgia Armory

Date Photos Taken: 17 July 2008

Apendix A

Photos

Georgia National Guard Moultrie Armory.

Apendix B

Sampling

Georgia National Guard Moultrie Armory.

Analytical Environmental Services, Inc.

Date: 7/28/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Moultrie Armory
Delivery Order:
PO No:

Lab Order: 0807E48
Date Received: 7/21/2008 9:45 AM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0807E48-001A	MOU-01	BRL	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-002A	MOU-02	643	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-003A	MOU-03	BRL	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-004A	MOU-04	40	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-005A	MOU-05	94	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-006A	MOU-06	372	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-007A	MOU-07	201	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-008A	MOU-08	2540	µg/ft²	72	3.59	7/17/2008	7/28/2008	JY
0807E48-009A	MOU-09	533	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-010A	MOU-10	BRL	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-011A	MOU-11	BRL	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-012A	MOU-12	22	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-013A	MOU-13	371	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-014A	MOU-14	612	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-015A	MOU-15	181	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-016A	MOU-16	BRL	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-017A	MOU-17	BRL	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-018A	MOU-18	BRL	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-019A	MOU-19	BRL	ug, Total	20	1	7/17/2008	7/28/2008	JY
0807E48-020A	MOU-20	105	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-021A	MOU-21	775	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-022A	MOU-22	125	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-023A	MOU-23	276	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-024A	MOU-24	170	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-025A	MOU-25	340	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-026A	MOU-26	399	ug, Total	20	1	7/17/2008	7/28/2008	JY
0807E48-027A	MOU-27	49	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-028A	MOU-28	330	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-029A	MOU-29	247	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-030A	MOU-30	353	µg/ft²	20	1	7/17/2008	7/28/2008	JY
0807E48-031A	MOU-31	50	µg/ft²	20	1	7/17/2008	7/28/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit

DF - Dilution Factor

Results are blank corrected where applicable

Analytical Environmental Services, Inc.

Date: 7/28/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Moultrie Armory
Delivery Order:
PO No:

Lab Order: 0807E48
Date Received: 7/21/2008 9:45 AM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0807E48-032A	MOU-32	84	ug, Total	20	1	7/17/2008	7/28/2008	JY

Qualifiers: BRL - Not Detected at the Reporting Limit
DF - Dilution Factor

Results are blank corrected where applicable

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P

April 04, 2011

MEMORANDUM FOR Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

TO: 2 LT Non-Responsive Project Manager, Georgia Army National Guard, CFMO, Bldg 70, 1000 Halsey Ave, Marietta, GA 30062.

SUBJECT: Moultrie National Guard Armory, Lead Sampling Survey 17 March 2011, Moultrie, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by Mr. Non-Responsive CFMO-Environmental, clearance sampling was conducted at the referenced site. The objective of the visit was to determine if the Indoor Firing Range (IFR) was free of lead after clean-up by the contractor.

b. Mr Non-Responsive Regional Industrial Hygienist with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the lead sampling 4 January 2011.

3. Findings. The laboratory results indicate no lead concentrations above the IFR post cleaning standard of 200 micro grams per square foot. (See attachment)

4. If additional information is needed about the above report, please contact Non-Responsive Non-Responsive Regional Industrial Hygienist at (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

Attachment

CF: CF: Georgia Department of Defense, ATTN: COL Non-Responsive CFMO-Chief, Building 70, 1000 Halsey Ave, Marietta, GA 30062.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

BEST AVAILABLE COPY

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1103372

Date: 3/17/11 Page 1 of 2

COMPANY: National Guard Bureau Industrial Hygiene Office

ADDRESS: 560 Plaza Dr., Ste 1530 College Park, GA 30349

PHONE: 404-559-4174

FAX: [redacted]

SAMPLED BY: [redacted]

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

ANALYSIS REQUESTED: LEAD

PRESERVATION (See codes)

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	LEAD	REMARKS
1	MKF - 1	3/17/11	1300					
2	" - 2							
3	" - 3							
4	" - 4							
5	" - 5							
6	" - 6							
7	" - 7					W.P.W.		
8	" - 8							
9	" - 9							
10	" - 10							
11	" - 11							
12	" - 12							
13	" - 13							
14	" - 14							

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1 M.K. FULLER		[redacted]	3/22/11 12:30
2			
3			

PROJECT INFORMATION
PROJECT NAME: Moultrie Indoor Firing Range
PROJECT #: 2 Moultrie
SITE ADDRESS: 589 [redacted] Dr. Moultrie, GA
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
☒ Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: E-mail [redacted]@us.army.mil

SHIPMENT METHOD
OUT VIA:
IN VIA:
CLIENT FedEx [redacted]
GREYHOUND

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED [redacted]; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC

AES
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1103542

Date: 3/12/14 Page 2 of 2

COMPANY: NATIONAL GUARD BUREAU
INDUSTRIAL HYGIENE OFFICE

ADDRESS: 510 PLAZA DR STE 1530
COLLEGE PARK, GA 30349

PHONE: 404-559-4174

FAX: 404-559-4175

SAMPLER: [redacted] Non-Responsive

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS
1	MGT - 15	3/11/14	1420					
2	" - 16	"	"					
3	" - 17	"	"					
4	" - 18	"	"					
5	" - 19	"	1430					
6								
7								
8								
9								
10								
11								
12								
13								
14								

CU + PB

RELINQUISHED BY: [redacted] Non-Responsive DATE/TIME:

RECEIVED BY: [redacted] Non-Responsive DATE/TIME: 3/11/14 12:30

PROJECT INFORMATION

PROJECT NAME: MOULTRIE EMBOLN FIRING RANGE
PROJECT #: 2 MOULTRIE
SITE ADDRESS: 589 INDUSTRIAL DR MOULTRIE, GA
SEND REPORT TO: [redacted] Non-Responsive
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: PO#:

RECEIPT

Turnaround Time Request
Standard
2 Business Day (Rush)
Next Business Day (Rush)
Same Day (auth req.)
Other

STATE PROGRAM (if any):
Reporting Limits: I II III IV
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: E-mail [redacted] Non-Responsive 2ad.army.mil

SHIPMENT METHOD
UPS VIA
FX VIA
CLIENT FedEx [redacted] Non-Responsive
GREYHOUND

SAMPLES RECEIVED AFTER 5PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A - Air GW - Groundwater SE - Sediment SO - Soil SW - Surface Water W - Water (Blanks) DW - Drinking Water (Blanks) O - Other (specify)
PRESERVATIVE CODES: H - HCl Hydrochloric acid + ice I - Ice only N - Nitric acid S - H2SO4 Sulfuric acid + ice SM - Sodium Bisulfate Methanol + ice O - Other (specify) NA - None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 29-Mar-11

Lab Order:	1103J92
Client:	National Guard Bureau Region-South IH
Project:	Moultrie Indoor Firing Range
Matrix:	Wipe
Date Received:	3/22/2011 12:30:00 PM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1103J92-001A	MKF-1	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-002A	MKF-2	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-003A	MKF-3	37	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-004A	MKF-4	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-005A	MKF-5	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-006A	MKF-6	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-007A	MKF-7	43	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-008A	MKF-8	20	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-009A	MKF-9	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-010A	MKF-10	109	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-011A	MKF-11	134	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-012A	MKF-12	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-013A	MKF-13	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-014A	MKF-14	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-015A	MKF-15	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-016A	MKF-16	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-017A	MKF-17	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-018A	MKF-18	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP
1103J92-019A	MKF-19	BRL	ug, Total	20	1		03/17/2011	03/24/2011	MP

Qualifiers: BRL - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SI

13 February 2003

MEMORANDUM FOR The Florida Army National Guard, ATTN: SFC Non-Responsive Armory Supervisor, Battery A, 1st BN, 265th ADA, 1301 Mosley Ave, Palatka, FL 32177-5619.

SUBJECT: Industrial Hygiene Survey of the Palatka National Guard Armory, Palatka, FL.

1. References.

a. Report submitted 7 February 2003, Industrial Hygiene Survey, LAE Consulting.

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1988.

c. AR 40-5, Preventive Medicine, October 1990.

d. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

e. AR 385-10, 23 May 1988, Army Safety Program.

f. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

g. TB MED 530, The Army Industrial Hygiene Program.

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

i. Industrial Ventilation, 21st ed, 1992, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of the Florida State Safety and Occupational Health Office and the Region South Industrial Hygiene Office a Service Contract was put together to conduct Health Hazard Information module (HHIM) Field surveys and IH surveys at the Florida National Guard Armories.

b. Ms. Non-Responsive of LAE Consulting conducted the survey.

3. Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

4. Recommendations.

a. Follow all recommendations made in reference 1. a., requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. Use the report to help in correcting all deficiencies noted by the contractor.

c. **Understand that the lead levels after cleanup in the deactivated Indoor Firing Range should be as close to zero as possible. Contact your FMO and request follow-up cleaning of this deactivated Indoor Firing Range as soon as possible. The current lead levels are a potential health hazard and can be a major problem if children are allowed to use this facility.**

d. Consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the contract visit, especially if this will help eliminate health hazards and reduce medical surveillance cost.

e. To execute your responsibilities in correcting all deficiencies and meeting all standards coordinate with the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. If additional information is needed about the contractors report, please contact Non-Responsive Regional Industrial Hygienist, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Office of the Adjutant General, ATTN: MAJ. Non-Responsive Safety Manager. Safety and Occupational Health Office, St. Francis Barracks, 82 Marine Street, St. Augustine, FL 32085-1008

LAE CONSULTING
1218 Scattered Pines Court, Severn, MD, 21144
Tel: (410) 551-2717

7 February 2003

MEMORANDUM FOR: Battery A, 1st BN, 265th ADA, ATTN: SFC Non-Responsive 1301 Mosley Ave, Palatka, FL 32177-5619

SUBJECT: Industrial Hygiene Survey of Palatka National Guard Armory, Palatka, FL

1. References.

a. Title 29, Code of Federal Regulations (CFR) Part 1910, Occupational Safety and Health Administration (OSHA).

b. AR 40-5, Preventive Medicine, 15 October 1990.

c. AR 385-10, 23 May 1988, Army Safety Program.

d. TB MED 503, The Army Industrial Hygiene Program.

e. Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

f. National Guard Pamphlet (NG Pam) AR 385-16, Safety, Guidelines for Converting Indoor Firing Ranges to Other Uses.

g. National Institute for Occupational Safety and Health (NIOSH), (76-130) Technical Information, Lead Exposure and Design Considerations for Indoor Firing Ranges GPO, 1975.

h. IES Lighting Handbook, Application Volume 1981, Illumination Engineering Society of North America.

i. Occupational Safety and Health Administration (OSHA), 29 CFR, 1926.1101, Asbestos

SUBJECT: Industrial Hygiene Survey of Palatka National Guard Armory, Palatka, FL

2. Purpose. The purpose of this survey was to conduct a baseline Industrial Hygiene survey of the Palatka National Guard Armory. The facility was visually examined and the Building Custodian was interviewed for historical information related to the building and the operations performed. A diagram of the building can be found in Enclosure 1. Laboratory results of Lead wipe samples and Asbestos samples at Enclosure 2. Photographs of the facility can be found in Enclosure 3. Health Hazard Inventories can be found in Enclosure 4. Excerpt of NG Pam 385-16, guidelines for Converting Indoor Firing Ranges to Other Uses in Enclosure 5.

3. Background. At the request of Non-Responsive of the National Guard Bureau Region South Industrial Hygiene Office, Ms. Non-Responsive of LAE Consulting conducted an industrial hygiene survey at the Palatka National Guard Armory on January 13, 2003.

4. Facility Description. This facility houses the Battery A, 1st BN, 265th ADA. The Armory has two full time personnel. The personnel perform administrative duties Monday through Friday between 0800 and1630. The Armory is utilized for drills on the weekend. The Armory was built around 1957. The facility houses administrative areas, one kitchen/mess hall, one classroom, a Drill hall, Supply Room, and an Arms Room.

5. Findings.

a. A motor pool is located adjacent to the Armory. Maintenance personnel are assigned to the motor pool during Drill. An eyewash station was found on the floor and not mounted. The eyewash was not in good repair. The motor pool has 2 Bays with exhaust hoses.

b. A deactivated Indoor Firing Range was converted into a storage area. The range is located on the drill Hall Floor. The Drill Hall was the firing line. 2 sliding doors are at that front of the pit. Paper products and chairs are stored in the pit. The backstop and floor have been removed. Seven (7) wipe samples were taken (Table 1). Three samples from the range and four(4) from various other locations throughout the Armory. Two of the seven samples were above the clearance level of 200-mg/ft^2 indicated in reference g (enclosure 3 and 6).

Table 1.

Sample Number	Sample Location	Results
1	Rear brick wall 5 ft	78 ug/ft^2
2	Pit floor near deflector wall	160ug/ ft^2
3	pit opening inside wall	3500 ug/ft^2
4	Drill Hall floor adjacent to supply room	25 ug/ft^2
5	Middle of Drill hall floor	80 ug/ft^2
6	Floor beneath bleachers near wall	12 ug/ft^2
7	Table in kitchen	570 ug/ft^2
8	Blank	<12 ug

c. The green floor tile in the kitchen and the beige floor tile in the bathroom was cracked and missing. A bulk sample was analyzed for the presences of Asbestos. Polarized Light Microscopy was used to analyze the samples. Samples were analyzed for the percentage and presence of Asbestos. The sample resulted in No Asbestos Detected.

d. The Drill Hall is used primarily for drills. The floor are hardwood. Visual examination and interview with personnel indicated no apparent vehicle maintenance being performed in this area. A Lead wipe sample was taken in the Drill Hall (Table 1). Results were below the reporting limit.

e. Thee supply room houses an Arms room and An NBC storage area. The areas were visually surveyed and personnel interviewed. Chemical detector alarms with a radioactive source are stored within the Supply room areas. Signage stating "Warning Radioactive Hazard" was posted. Personnel stated that accountability and issuing of weapons is performed in the Arms room. Weapons are not repaired in the arms room. Supply personnel were educated about ensuring that they maintain good personnel hygiene after handling weapons and about the risk of performing weapons repair in a non ventilated area.

f. Illumination levels were measured in the Armories administrative areas. The workstation in the supply room average reading was 26.8-Foot candles (FC). The Platoon SGT's area average reading was 16.3 FC.

g. Petroleum, Oil and Lubricants (POLs) are stored in a building located outside in the motor pool area. A fire extinguisher is located outside the building. No smoking signs are posted. The floor is concrete. The building is cinder block. Two flammable cabinets are located within the building storing paint. Sand bags are used as containment in case of a spill.

SUBJECT: Industrial Hygiene Survey of Palatka National Guard Armory, Palatka, FL

6. Recommendations.

a. Recommend cleaning and then mounting the eyewash station in the motor pool. The eyewash should be accessible in case of emergency.

b. Recommend that the Florida Occupational Safety and Health office review the Lead wipe clearance sample results of this facility to determine if the range was adequately decontaminated. If samples are greater than or equal to 200 ug/ft^2 (reference g). Consider discontinuing the use of this area as a storage area until further evaluation can be performed.

c. Any material containing more than one percent Asbestos is considered an Asbestos Containing Material [OSHA 29 CFR, 1910.1101]. All samples analyzed were *negative* for Asbestos.

d. Continue to discourage the use of the Drill Hall as a motor vehicle maintenance bay.

e. Continue to ensure that weapons maintenance is not performed inside the Arms room. Practice good personal hygiene by washing hands thoroughly after handling weapons and ammunition.

f. . Lighting in the Administrative areas must be upgrades to meet the required 30-50 FC recommended [IES/ANSI RP1-1993]. Consider purchasing supplemental lighting such as desk lamps until funding for lighting upgrades become available.

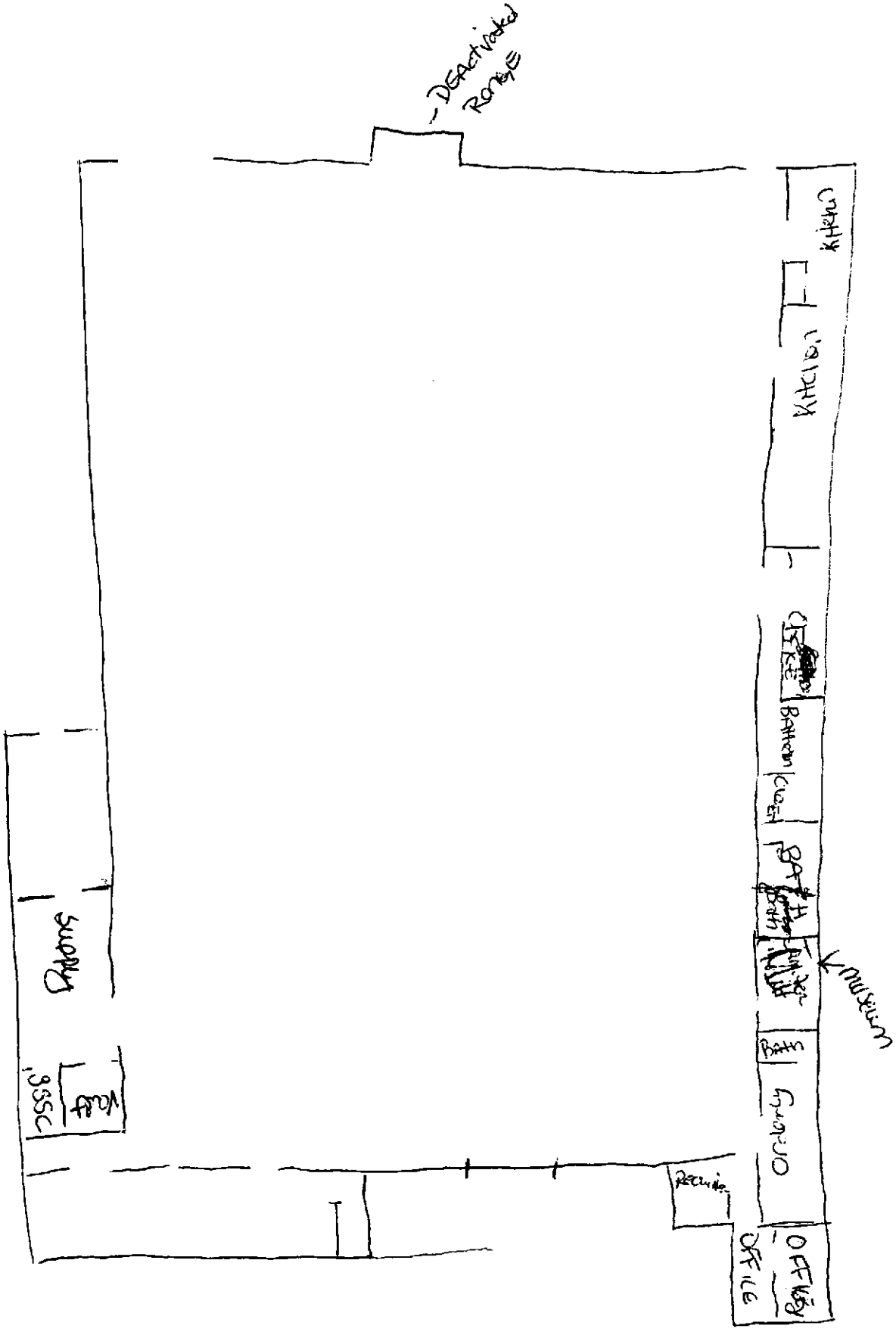
g. The POL storage was well organized. No significant findings.

7. Technical Assistance. For technical assistance regarding information found in this report please contact Non-Responsive of the Southeast Regional Industrial Hygiene Office, 1-800-326-0262.

5 Encl
1. Building Diagram
2. Sample Results
3. Photos of Facility
4. HHIM
5. Excerpts NG Pam 385-16

Non-Responsive
LAE Consulting

CF: Safety Occupational Health Office, Florida NG



FRONT of Armory

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP NY ELAP AIHA

Client:	LAE Consulting	**Job Name:**	Palatka Armory, National Guard	**Chain Of Custody:**	RS430
Address:	1218 Scattered Pine Court	**Job Location:**	Not Provided	**Date Analyzed:**	01/21/2003
	Severn, Maryland 21144	**Job Number:**	Not Provided	**Person Submitting:**	[redacted]
		P.O. Number:	Not Provided	**Report Date:**	21-Jan-03

Attention: [redacted]

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Air Volume (L)	Area Wiped (ft²)	Reporting Limit		Final Result		Comments
0320927	1	Flame	Wipe	****	1.000	12.00	ug/ft²	78	ug/ft²	
0320928	2	Flame	Wipe	****	1.000	12.00	ug/ft²	160	ug/ft²	
0320929	3	Flame	Wipe	****	1.000	12.00	ug/ft²	3500	ug/ft²	
0320930	4	Flame	Wipe	****	1.000	12.00	ug/ft²	25	ug/ft²	
0320931	5	Flame	Wipe	****	1.000	12.00	ug/ft²	80	ug/ft²	
0320932	6	Flame	Wipe	****	1.000	12.00	ug/ft²	12	ug/ft²	
0320933	7	Flame	Wipe	****	1.000	12.00	ug/ft²	570	ug/ft²	
0320934	8	Flame	Wipe Blank	****	N/A	12.00	ug	12	ug	

Analysis Method for Flame: Air, Wipes, Paints, and Soil/Solids: EPA 600/R-93/200(M)-7420; Water: SM-3111B

Analysis Method For Furnace: Air, Wipes, Paints, and Soil/Solids : EPA 600/R-93/200(M)-7421; Water: SM-3113B

N/A = Not Applicable mg/Kg = parts per million (ppm) by weight mg/L = parts per million (ppm)

%Pb = percent lead by weight ug = micrograms ug/L = parts per billion (ppb)

Note: All results have two significant digits. Any additional digits shown should not be considered when interpreting the result.

Analyst: [redacted] Manager: [redacted]

An AIHA (#9263), NVLAP (# 101143), & New York ELAP (#10920) Accredited Laboratory

4475 Forbes Blvd. • Lanham, MD 20706 • (301) 459-2640 • Toll Free (800) 336-9261 • Fax (301) 459-2643

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

Client:	LAE Consulting	**Job Name:**	Palatka Armory, National Guard	**Chain Of Custody:**	88429
Address:	1218 Scattered Pine Court	**Job Location:**	Not Provided	**Date Analyzed:**	01/21/2003
	Severn, Maryland 21144	**Job Number:**	Not Provided	**Person Submitting:**	Non-Respon [redacted]
		P.O. Number:	Not Provided		

Attention: Non-Respon [redacted]

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Color	Analyst ID	Comments
0320935	01	NAD	--	--	--	--	--	--	--	--	--	100	Green	LB	
0320936	02	NAD	--	--	--	--	--	--	--	--	--	100	Off-White	LB	

BEST AVAILABLE COPY

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.

2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

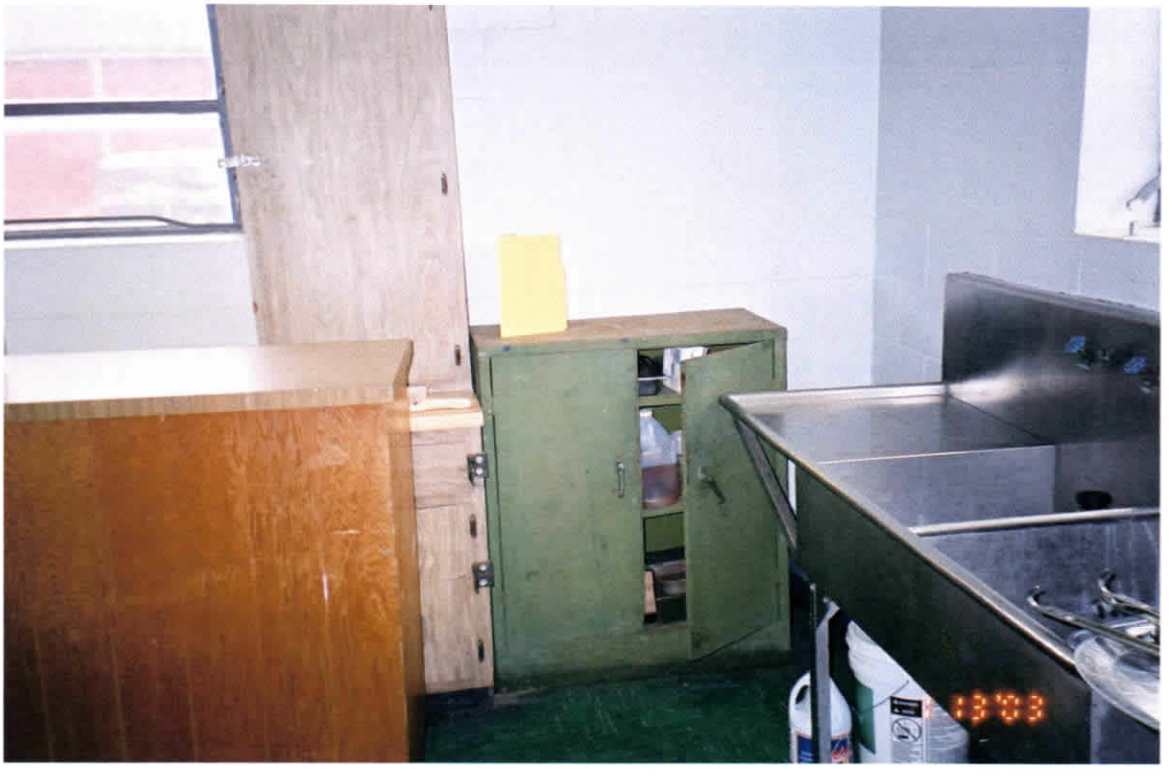
Non-Respon [redacted]

Front and rear views of Palatka, Florida National Guard Armory

Views of Drill Hall, Palatka NG Armory, Florida

Downrange views of the Deactivated
Indoor Firing Range

Lead wipe sample under
bleachers (yellow card) in Drill Hall



Lead wipe sample location in on top of cabinet in the kitchen

View of sampling location on Drill Hall floor

View of lead wipe sample location in deatvated Indoor firing range

Location of Chipped floor tile in kitchen

Interior views of motorpool

Eyewash located in the motorpool bay

Exterior view of the Motorpool

Interior and exteior views of the PLL storage building

HEALTH HAZARD INFORMATION MODULE: INDUSTRIAL HYGIENE SURVEY

(For use of this form, see HHIM User's Guide)

SECTION 1. DEMOGRAPHIC DATA

ARLOC	INSTALLATION	BLDG/RM NO.
	Rarin-Deutsch Armory	1301 Moseley Ave Palatka, FL 32177

LOCATION/CODE	OPERATION/CODE
AA	ADO

SURVEY DATE	EVALUATOR (Initials)
13 Jan 03	LAE Non-Responsive LAE Consulting

MACOM/CODE	SUBMACOM/CODE	SUPERVISOR
		SFC Non-Responsive

TELEPHONE/DSN NO.	UNIT/ORGANIZATION	RAC	FREQUENCY (hrs/day)
(386) 329-3746	Battery A, 1st BN 26th ADA		8+

NO. CIV(S)	NO. MIL	NO. CONTRACTOR(S)	NO. LOC(S)	NO. OTHER
	2			

SECTION 2. FACILITY DATA

LAB HOODS	VAPOR DEGREASERS	SPRAY BOOTHS
MAINTENANCE BAYS	OPEN SURFACE TANKS	VENTILATION UNITS

SECTION 3. SURVEY DATA

CONTROLS PRESENT	EVALUATION	UNIT CODE	CONTROLS REQUIRED	STATUS

PERSONAL PROTECTIVE EQUIPMENT (R = Required; U = Utilized)

GLOVES	R/U	RESPIRATOR	NIOSH TC NO.	MANUFACTURER	R/U
ACID	/	AIRLINE			/
COLD SURFACES	/	ABRASIVE BLASTING HOOD			/
HOT SURFACES	/	DISPOSABLE			/
NBC AGENTS	/	FULL FACE AIR PURIFYING			/
OIL	/	1/2 FACE AIR PURIFYING			/
SOLVENTS	/	POWERED AIR PURIFYING			/
SURGICAL GLOVES	/	1/4 FACE AIR PURIFYING			/
		SELF CONTAINED			/

EYES/FACE	R/U	HEARING	R/U	BODY	R/U	HEAD/FIT	R/U
CHEMICAL SPLASH	/	CANAL CAPS	/	APRONS	/	COLD WEATHER BOOTS/HATS	/
FULL FACE SHIELD	/	EARPLUGS	/	COLD WEATHER CLOTHING	/	HARD HATS	/
CHEMICAL/SAFETY	/	HELMETS	/	COVERALLS	/	IMPERMEABLE BOOTS	/
SAFETY/IMPACT	/	MUFFS	/	FULL BODY SUIT	/	SAFETY/CONDUCTIVE SHOES	/
WELDING HELMET	/	MUFF/EARPLUG COMBO	/	HEAT REFLECTIVE VEST/SUIT	/	SAFETY/NON-CONDUCTIVE SHOES	/
		MUFF/EARPLUG W/TIME LIMIT	/	SAFETY BELT/HARNESS	/		/

SECTION 4. HAZARD INVENTORY DATA

CAS CODE	HAZARD DESCRIPTION	PAC	EPC
7439-92-1	LEAD, INORGANIC, DUST + FUMES		

SECTION 5. PERSONNEL DATA

LAST NAME	FIRST NAME	MI	SEX	SSN	CATEGORY
Non-Responsive	Non-Responsive	R	M	Non-Responsive	14 M
		S	M		92Y

SECTION 6. COMMENTS

☐ No comments ☐ See attached sheet

PRIVACY ACT STATEMENT

Title 5 US Code, Section 301; Executive Order 9397 authorizes the use of your Social Security Number as an identification number. The purpose of this information is to identify and monitor data relating each DA civilian and military employee exposed to a hazardous workplace or operation. The use of this information is to provide histories of exposures for any given worker.

Disclosure of your Social Security Number is not mandatory; however, nondisclosures may result in untimely provision of proper medical monitoring.

HEADQUARTERS
DEPARTMENTS OF THE ARMY AND THE AIR FORCE
Washington, DC 20310-2500
31 January 1994

NG PAM (AR) 385-16/
ANGPAM 91-101

Safety

GUIDELINES FOR CONVERTING INDOOR FIRING RANGES TO OTHER USES

Summary. This is a new pamphlet. This guidance prescribes policy, responsibilities, and procedures on how to convert lead-contaminated indoor firing ranges to other uses.

Applicability. This guidance applies to all persons responsible for the operation of Army National Guard (ARNG) and Air National Guard (ANG) indoor firing ranges. As no regulation/guidance can foresee all situations that might arise, the following is written in a broad scope and is intended to be interpreted as to the INTENT of the law by health professionals.

Supplementation. Supplementation of this guidance is prohibited without prior approval from Chief, National Guard Bureau (NGB-AVN-SI).

Impact on New Manning System. This guidance does not contain information that affects the New Manning System.

Interim changes. Interim changes are not official unless they are authenticated by the Chief, Administrative Services. Users will destroy interim changes on their expiration date unless sooner superseded or rescinded.

Suggested Improvements. The proponent of this publication is the National Guard Bureau. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Chief, National Guard Bureau, Attn: NGB-AVN-SI, 111 South George Mason Drive, Arlington, VA 22204-1382.

Distribution. Distribution of this publication is made in accordance with the requirements on DA Form 12-09-E.

CONTENTS *(Listed by paragraph numbers)*

1. Purpose

This pamphlet establishes policy and procedures for converting indoor firing ranges to other uses.

2. References

Related publications are listed below.

a. DODI 6055.1 (Department of Defense Occupational Safety and Health (OSH) Program).

b. AR 11-34 (The Army Respiratory Protection Program).

c. AR 40-5 (Preventive Medicine).

d. NGR (AR) 385-15 (Policy, Responsibilities, and Procedures for Inspection/Evaluation and Use of ARNG Indoor Firing Ranges).

e. TB MED 502 (Occupational and Environmental Health Repiratory Protection Program).

f. USAEHA TG 141 (Industrial Hygiene Air Sampling and Bulk Sampling Instructions).

g. Title 29, Code of Federal Regulations (CFR) revision, Part 1910 (Occupational Safety and Health Standards).

APPENDIX B
INTERPRETATION OF SAMPLE RESULTS (PRIOR TO CLEANING)

B-1 200 micrograms/sq ft or LESS
If all sample results are 200 micrograms/sq ft or less, the range can be converted and/or used for any purpose.

B-2 BETWEEN 201 and 200,000 micrograms/sq ft.
Range must be decontaminated. Continue with cleaning instructions listed in paragraph 15. Sample results will be used to establish a baseline. The baseline sample results will be used to ensure the 75 percent reduction is achieved.

B-3 OVER 200,000 micrograms/sq ft.
Your sample media may not be capable of collecting additional lead dust and results that are above 200,000 micrograms/sq ft should be considered suspect. Larger concentrations of lead dust may exist on surfaces tested other than results indicate. If the initial sampling results are above 200,000 micrograms/sq ft, the range should be cleaned by either HEPA vacuuming and/or wet wiping to establish a baseline. After the cleaning procedure is completed, resampling should occur until sample results are under the 200,000 micrograms/sq ft limit.

B-4 High sample results may exist due to personnel walking or moving equipment/vehicles over the range surfaces causing the lead dust to be "ground" into the substratum. For example, a maintenance activity may have oversprayed paint or spilled solvents onto the surface which would bond with the lead dust. Consult your Regional Industrial Hygiene Office for specific guidance.

APPENDIX C
INTERPRETATION OF SAMPLE RESULTS (AFTER CLEANING)

C-1 200 micrograms/sq ft or LESS
If all sample results are less than 200 micrograms/sq ft, the range can be converted and/or used for any purpose after a coat of lead-free latex paint is applied. The paint color must contrast the color of the present substratum.

C-2 ABOVE 200 micrograms/sq ft
As a minimum, a 75 percent reduction should occur from your initial sample results or the samples should be under the 200 microgram/sq ft level. If all sample results meet this criteria, a contrasting color of lead-free latex paint must be applied before the area is utilized for other purposes. The room can only be used as a storage area. Storage of kitchen equipment and food is prohibited. The room cannot be used for a child care or nursery area. If sample results are not below the 75 percent reduction, a more thorough cleaning of the range is required along with resampling until criteria are met.

* **PLEASE NOTE**, that if your original wipe sample results were, i.e., 175,000 ug/sq ft then you would have to reduce the lead level below 13,125 ug/sq ft. This would meet the 75 percent reduction criteria; however, this is an enormous amount of lead dust and care should be taken to ensure a heavy coat of paint seals the lead dust. It is unknown at this time whether or not the remaining amount of lead dust will allow the latex paint to adhered to the substratum. If the paint peels, falls to the floor and is crushed over a period of time, it will create another respirable lead hazard. If this happens, contact your Regional Industrial Hygiene Office for guidance. Periodically monitor the converted range for signs of peeling paint. Paint chips can be analyzed for lead content. **DO NOT IGNORE PEELING PAINT IN A CONVERTED INDOOR FIRING RANGE.**

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH

September 12, 2008

MEMORANDUM THRU LT. Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Savannah Army National Guard Armory, Lead Sampling Survey, Savannah, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 August 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On August 28, 2008, a site visit was conducted and at the time of the sampling activity, the bullet stop and firing line were observed inside the firing range. There were several tables, wall lockers and chairs inside the former IFR. The surface areas inside the former IFR were observed to be constructed of painted cinder-block walls, concrete floors and the ceiling was constructed of concrete-type mesh. Portions of the walls were covered with sound-proofing materials.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. The dust samples were collected using Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 22 samples were collected including three from each surface area and one sample from the observed tables for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, two wipe samples were placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results indicate lead concentrations detected above the IFR post cleaning standard. These sampling results indicate that any previous decontamination activities were not adequate to remove the lead dust from the former range at acceptable levels. In accordance with the National Guard Bureau Pamphlet 420-15, the IFR cannot be converted for other uses until the lead dust levels are reduced to 200µg/ft^2 or lower depending on local requirements.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
SA-01	**Lower Wall, Bullet Stop**	**442,000**
SA-02	**Middle Wall, Bullet Stop**	**307,000**
SA-03	**Upper Wall, Bullet Stop**	**91,400**
SA-04	**Lower Right Wall**	**2,580**
SA-05	**Middle Right Wall**	**253**
SA-06	**Upper Right Wall**	**739**
SA-07	**Lower Rear Wall**	**319**
SA-08	Middle Rear Wall	138
SA-09	**Upper Rear Wall**	**711**
SA-10	**Lower Left Wall**	**244**
SA-11	**Middle Left Wall**	**452**
SA-12	**Upper Left Wall**	**583**
SA-13	**Floor at Bullet Stop**	**116,000**
SA-14	**Middle Floor**	**12,800**
SA-15	**Floor at Rear Wall**	**4,920**
SA-16	**Ceiling at Bullet Stop**	**167,000**
SA-17	Middle Ceiling	BRL[2]
SA-18	**Ceiling at Rear Wall**	**201**
SA-19	Wooden Table, Top	BRL
SA-20	**Field Blank**	**1,830**
SA-21	Wooden Table Top, Rear of Range	BRL
SA-22	**Field Blank**	**3,580**

[1] Results reported in micrograms per square feet ($\mu g/ft^2$)
[2] BRL = Below Reportable Limits

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. Ensure that the former indoor firing range remains closed and secured to prevent unauthorized entry into this area.

b. Review NG Bureau Pamphlet 420-15 prior to conducting decontamination of the IFR and conduct cleaning activities in accordance with the regulatory document. Keep in mind that EPA (40 CFR Subpart D) and your state may have lead reduction levels lower than the levels recommended in NG Bureau Pamphlet 420-15.

c. Prior to initiating decontamination activities and in accordance with 29 CFR 1910.1025, perform and conduct training for employees exposed to lead concentrations above the standard or who may suffer skin or eye irritation from exposure to lead.

d. Ensure that appropriate personal protective equipment is worn during decontamination activities.

e. Consult with local Environmental Agency for guidance on proper disposal of materials used in decontaminating the IFR.

f. Upon completion of the decontamination activities, contact the Regional IH office for evaluation and collection of confirmatory lead dust samples.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr Non-Responsive, CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 05, 2008

Non-Responsive

National Guard Bureau Region-South III
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Savannah Armory

Order No.: 0808K29

Dear Non-Responsive

Analytical Environmental Services, Inc. received 22 samples on 8/29/2008 3:15:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 5 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 President's Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0800124

Date: 8/29/08 Page 1 of 2

COMPANY: Region South HQ Office

ADDRESS: 5 10 Plaza Dr Ste 1530
College Park, GA 30349

PHONE: 4/559-4174

FAX: 4/559-4175

SAMPLED: [redacted]

SIGNATURE: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No. # of Containers
1	Sa -01	8/28/08		X		WPE	X	1'X1' Sample	1
2	Sa-02			X			X		1
3	Sa-03			X			X		1
4	Sa-04			X			X		1
5	Sa-05			X			X		1
6	Sa-06			X			X		1
7	Sa -07			X			X		1
8	Sa-08			X			X		1
9	Sa-09			X			X		1
10	Sa-10			X			X		1
11	Sa-11			X			X		1
12	Sa-12			X			X		1
13	Sa-13			X			X		1
14	Sa-14			X			X	1'X1' Sample	1

ANALYSIS REQUESTED

PRESERVATION (See codes)

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

BEST AVAILABLE COPY

RELINQUISHED BY: [redacted] DATE/TIME: 8/29/08/1500

RECEIVED BY: [redacted] DATE/TIME: 8/29/08 3:15

PROJECT INFORMATION

PROJECT NAME: Savannah Armory

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: [redacted]

INVOICE TO (IF DIFFERENT FROM ABOVE):

QUOTE #: PO#:

RECEIPT

Total # of Containers: 14

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):

E-mail? Y N Fax? Y N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / VIA

IN / VIA

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid S = Sulfuric acid + ice SAH = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTI[illegible]L ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: [illegible]
Date: ______ Page ____ of ____

COMPANY: Region South IH Office
ADDRESS: 5109 Plaza Dr, College Park, GA 30141
PHONE: 4/559-4174
FAX: 4/559-4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No. of Containers
1	SG-15	8/18/08		X		Wipe	X	1'x1' sample	1
2	SG-16			X			X	"	1
3	SG-17			X			X	"	1
4	SG-18			X			X	"	1
5	SG-19			X			X		1
6	SG-20			X			X	1'x1' sample	1
7	SG-21			X			X		1
8	SG-22			X		Wipe	X		
9									
10									
11									
12									
13									

PRESERVATION (See codes)

RELINQUISHED BY: [redacted] DATE/TIME: 8/24/08/1500
RECEIVED BY: [redacted] DATE/TIME: 8/29/08 3:15

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT VIA
IN VIA
CLIENT (circled) FedEx UPS MAIL COURIER
GREYHOUND OTHER ______

PROJECT INFORMATION
PROJECT NAME: Savannah Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: ______ PO#: ______

RECEIPT
Total # of Containers: 8

Turnaround Time Request
● Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other ______

STATE PROGRAM (if any): ______
E-mail? Y N; Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA Army Work Order Number 0806429

Checklist completed by [redacted] 8/30/18
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C-12)*	Yes ✓	No __	

Cooler #1 Amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Date: 9/16/2008

Analytical Environmental Services, Inc.

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Savannah Armory
Delivery Order:
PO No:

Lab Order: 0808K29
Date Received: 8/29/2008 3:15 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0808K29-001A	SA-01	442000	µg/ft²	9400	470	8/28/2008	9/5/2008	TAA
0808K29-002A	SA-02	307000	µg/ft²	8420	421	8/28/2008	9/5/2008	TAA
0808K29-003A	SA-03	91400	µg/ft²	2000	100	8/28/2008	9/5/2008	TAA
0808K29-004A	SA-04	2580	µg/ft²	75	3.76	8/28/2008	9/5/2008	TAA
0808K29-005A	SA-05	253	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-006A	SA-06	739	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-007A	SA-07	319	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-008A	SA-08	138	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-009A	SA-09	711	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-010A	SA-10	244	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-011A	SA-11	452	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-012A	SA-12	583	µg/ft²	4640	232	8/28/2008	9/5/2008	TAA
0808K29-013A	SA-13	116000	µg/ft²	356	17.81	8/28/2008	9/5/2008	TAA
0808K29-014A	SA-14	12800	µg/ft²	188	9.42	8/28/2008	9/5/2008	TAA
0808K29-015A	SA-15	4920	µg/ft²	6000	300	8/28/2008	9/5/2008	TAA
0808K29-016A	SA-16	167000	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-017A	SA-17	BRL	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-018A	SA-18	201	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-019A	SA-19	BRL	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-020A	SA-20	1830	ug, Total	63	3.13	8/28/2008	9/5/2008	TAA
0808K29-021A	SA-21	BRL	µg/ft²	20	1	8/28/2008	9/5/2008	TAA
0808K29-022A	SA-22	3580	ug, Total	89	4.45	8/28/2008	9/5/2008	TAA

Qualifiers: BRL - Not Detected at the Reporting Limit

DF - Dilution Factor

Results are blank corrected where applicable

Photo 1: View of the exterior of the Savannah, Georgia National Guard Armory.

Photo 2: View of the bullet trap inside the former indoor firing range.

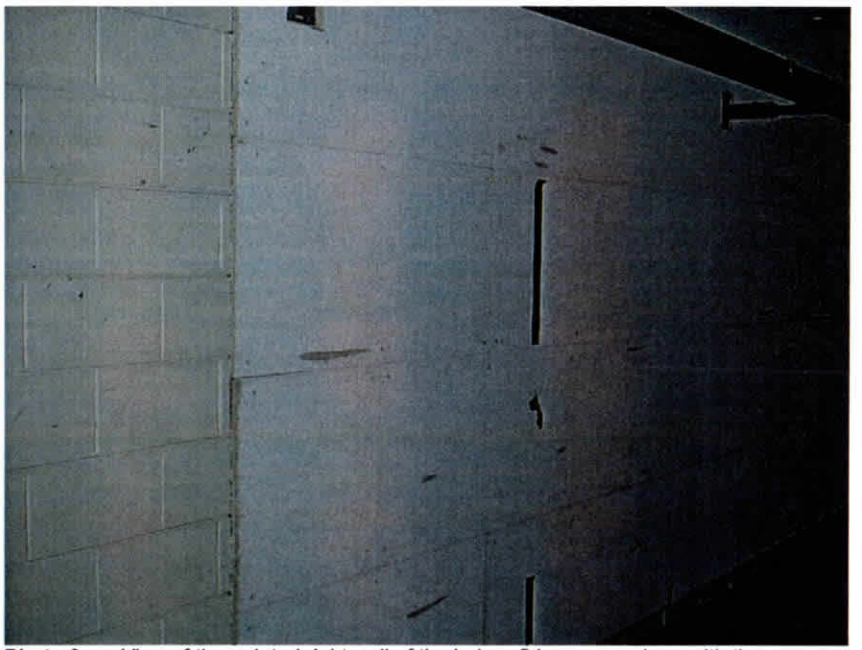


Photo 3: View of the painted right wall of the indoor firing range along with the acoustical materials observed.

Photo 4: View of the painted left wall of the IFR.

Project Name: Savannah Georgia Armory

Date Photos Taken: 28 August 2008

Photo 5: View of the ceiling covered with acoustical materials observed.

Photo 6: View of the firing lines observed at the rear of the firing range.

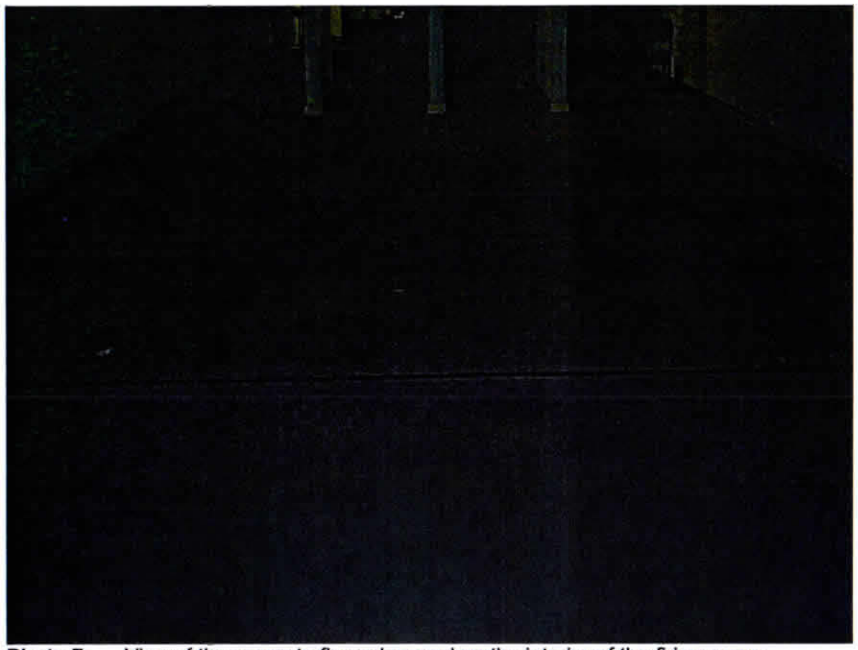


Photo 7: View of the concrete floor observed on the interior of the firing range.

Project Name: Savannah Georgia Armory

Date Photos Taken: 28 August 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P

April 29, 2011

MEMORANDUM FOR CPT. Non-Responsive Georgia Army National Guard, 118th Field Artillery, 1248 Eisenhower Drive, Savannah, GA 31406.

TO: Mr. Non-Responsive Project Manager, Georgia Army National Guard, CFMO, Bldg 70, 1000 Halsey Ave, Marietta, GA 30062.

SUBJECT: Savannah National Guard Armory, Lead Sampling follow-up Survey 19 April 2011, Savannah, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by Mr. Non-Responsive CFMO. Clearance sampling was conducted after the contractor returned to once again clean the converted Indoor Firing Range at the referenced site. The objective of the visit was to determine if the Indoor Firing Range (IFR) was free of lead after clean-up by the contractor.

b. Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer performed the lead sampling 19 April 2011.

3. Findings. The laboratory results indicate lead concentrations above the IFR post cleaning standard of 200 micro grams per square foot.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
SAV-01	**See attached floor diagram**	561
SAV-02	**For location of results**	1160
SAV-03		36
SAV-04		BRL
SAV-05		38
SAV-06		24
SAV-07		25
SAV-08		BRL
SAV-09		53
SAV-10		BRL
SAV-11		38
SAV-12		49
SAV-13		BRL
SAV-14		390
SAV-15		276
SAV-16		134
SAV-17	BLANK	BRL
SAV-18	BLANK	BRL
SAV-19	BLANK	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report is attached for review.

4. Discussion. A phone call to Mr. Non-Responsive 28 April 2011 was made to inform him of the sample results. A copy of such results were e-mailed to him 29 April.

5. Recommendations. Once again have the contractor reclean the IFR to get the lead levels below the standard of 200 micro grams per square foot and notify the Regional Industrial Hygiene Office, Mr. Non-Responsive to once again sample the Savannah

Armory as soon as the contractor has finished the cleaning. Do not store anything in the room until the room has been properly cleaned.

6. If additional information is needed about the above report, please contact Non-Responsive Non-Responsive Regional Industrial Hygienist at (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: State Safety Office, GA, ATTN: LT Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: COL Non-Responsive CFMO-Chief, Building 70, 1000 Halsey Ave, Marietta, GA 30062.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

Mr. Non-Responsive, Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

Date: 4/19/11 Page 1 of 2

COMPANY: National Guard Bureau
Industrial Hygiene Office

ADDRESS: 510 Plaza Drive, Suite 1530
College Park, GA 30349

PHONE: (404) 559-4174

FAX: (404) 559-4175

SAM [redacted] FOR [redacted]

SI [redacted]

ANALYSIS REQUESTED: LEAD

PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	REMARKS	No. of Containers
1	SAV-01	4/19/11	1025			WIPE		
2	SAV-02							
3	SAV-03							
4	SAV-04							
5	SAV-05							
6	SAV-06							
7	SAV-07							
8	SAV-08							
9	SAV-09							
10	SAV-10							
11	SAV-11							
12	SAV-12							
13	SAV-13							
14	SAV-14		1120					

BEST AVAILABLE COPY

RELINQUISHED BY: [redacted] FOR [redacted] DATE/TIME

RECEIVED BY: 1. 2. 3. DATE/TIME

PROJECT INFORMATION
PROJECT NAME: Savannah Indoor Firing Range
PROJECT #: Savannah
SITE ADDRESS: 1249 Eisenhower Drive, Savannah, GA 31406
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers:

Turnaround Time Request
☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other

SPECIAL INSTRUCTIONS/COMMENTS: EMAIL [redacted] @us.army.mil @us.army.mil

SHIPMENT METHOD
OUT 4/19/11 VIA: FedEx
IN / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

STATE PROGRAM (if any)
E-mail? Y N Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 5PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blank) DW = Drinking Water (Blank) O = Other (specify)
PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid S = Sulfuric acid + ice SH = Sodium Bisulfate-Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

Date: 4/19/11 Page 2 of 2

COMPANY: National Guard Bureau
Industrial Hygiene Office

ADDRESS: 510 Plaza Drive, Suite 1530
College Park, GA 30349

PHONE: (404) 559-4174

FAX: (404) 559-4175

[redacted] For [redacted]

SIGN: [redacted]

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. of Containers
1	SAV-15	4/19/11	1025						
2	SAV-16								
3	BLANK								
4	BLANK								
5	BLANK		1120						
6	AND NO OTHERS →			WIPE					
7									
8									
9									
10									
11									
12									
13									
14									

BEST AVAILABLE COPY

RELINQUISHED BY: [redacted] For [redacted] DATE/TIME:

1: RECEIVED BY: DATE/TIME:

2:

3:

SPECIAL INSTRUCTIONS/COMMENTS: Email [redacted] @us.army.mil
[redacted] @us.army.mil

SHIPMENT METHOD
OUT 4-19-11 VIA: FEDEX
IN / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Savannah Indoor Firing Range
PROJECT #: SAVANNAH
SITE ADDRESS: 1248 Eisenhower Drive, Savannah, GA 31406
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers:

Turnaround Time Request
☒ Standard 5 Business Days
☐ 2 Business Day Rush
☐ Next Business Day Rush
☐ Same Day Rush (auth req.)
☐ Other

STATE PROGRAM (if any):
E-mail: Y N Fax: Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 4PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid S = Sulfuric acid + ice S/M = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 25-Apr-11

Client: National Guard Bureau Region-South IH
Project: Savannah Indoor Firing Range
Lab ID: 1104G37

Case Narrative

Two Blank samples collected 4/19/2011 10:25am were listed on the Chain of Custody and were received by the laboratory. All samples were received sorted in the order as they appear on the COC. The Blank samples were logged in based on the order in which they were received.

Analytical Environmental Services, Inc

Date: 25-Apr-11

Lab Order:	1104G37
Client:	National Guard Bureau Region-South IH
Project:	Savannah Indoor Firing Range
Matrix:	Wipe
Date Received:	4/20/2011 12:20:00 PM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1104G37-001A	SAV-01	561	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-002A	SAV-02	1160	ug, Total	45	2.27		04/19/2011	04/21/2011	MW
1104G37-003A	SAV-03	36	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-004A	SAV-04	BRL	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-005A	SAV-05	38	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-006A	SAV-06	24	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-007A	SAV-07	25	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-008A	SAV-08	BRL	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-009A	SAV-09	53	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-010A	SAV-10	BRL	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-011A	SAV-11	38	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-012A	SAV-12	49	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-013A	SAV-13	BRL	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-014A	SAV-14	390	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-015A	SAV-15	276	ug, Total	20	1		04/19/2011	04/21/2011	MW
1104G37-016A	SAV-16	134	ug, Total	20	1		04/19/2011	04/25/2011	MP
1104G37-017A	BLANK	BRL	ug, Total	20	1		04/19/2011	04/25/2011	MP
1104G37-018A	BLANK	BRL	ug, Total	20	1		04/19/2011	04/25/2011	MP
1104G37-019A	BLANK	BRL	ug, Total	20	1		04/19/2011	04/25/2011	MP

Qualifiers: BRL - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA Army Work Order Number 1104G37

Checklist completed [redacted] 4-20-11
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes ✓	No __	

4.20.11

Cooler #1 Ambient Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes ✓ No __

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 25-Apr-11

Client: National Guard Bureau Region-South IH
Project: Savannah Indoor Firing Range
Lab Order: 1104G37

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1104G37-001A	SAV-01	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-002A	SAV-02	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-003A	SAV-03	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-004A	SAV-04	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-005A	SAV-05	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-006A	SAV-06	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-007A	SAV-07	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-008A	SAV-08	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-009A	SAV-09	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-010A	SAV-10	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-011A	SAV-11	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-012A	SAV-12	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-013A	SAV-13	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-014A	SAV-14	4/19/2011 11:20:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-015A	SAV-15	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/21/2011	04/21/2011
1104G37-016A	SAV-16	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/22/2011	04/25/2011
1104G37-017A	BLANK	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/22/2011	04/25/2011
1104G37-018A	BLANK	4/19/2011 10:25:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/22/2011	04/25/2011
1104G37-019A	BLANK	4/19/2011 11:20:00AM	Wipe	LEAD ON WIPES (N9100/7082)		04/22/2011	04/25/2011

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P

July 21, 2011

MEMORANDUM FOR CPT. Non-Responsive Georgia Army National Guard, 118th Field Artillery, 1248 Eisenhower Drive, Savannah, GA 31406.

TO: Mr. Non-Responsive Project Manager, Georgia Army National Guard, CFMO, Bldg 70, 1000 Halsey Ave, Marietta, GA 30062.

SUBJECT: Savannah National Guard Armory, Lead Sampling follow-up Survey 5 May 2011, Savannah, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. After failing the clearance sampling two times before, a third set of clearance sampling was conducted 5 May 2011 after the contractor returned to once again attempt to clean the converted Indoor Firing Range. The results collected 25 January 2011 and 19 April 2011 exceeded the post cleaning standard of 200 micro grams per square foot. The objective of all of the sampling was to ensure lead levels were below 200 micro grams per square foot prior to the areas being encapsulated per NGB PAM 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

b. Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer performed the lead sampling 5 May 2011.

3. Findings. The laboratory results indicate lead concentrations below the IFR post cleaning standard of 200 micro grams per square foot.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
SAV-01	**See attached floor diagram**	BRL
SAV-02	**For location of results**	BRL
SAV-03		51
SAV-04		BRL
SAV-05		BRL
SAV-06		BRL
SAV-07		BRL
SAV-08		BRL
SAV-09		BRL
SAV-10		BRL
SAV-11		BRL
SAV-12	BLANK	BRL
SAV-13	BLANK	BRL
SAV-14	BLANK	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report is attached for review.

4. Discussion.

a. According to Mr. Non-Responsive CFMO-Environmental Officer, the reason the results were low is a sealant was applied after this cleanup and the samples were taken on top of the sealant. He toke a picture of 5 gallon cans of the encapsulate sitting in the room. See attached picture 1.

b. The objective of all of the sampling was to ensure lead levels were below 200 micro grams per square foot prior to the areas being encapsulated per NGB PAM 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006. This did not happen.

c. The contractor violated requirements set forth in NG PAM 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006. He did not clean the area below the required level of 200 micro grams per square foot before he used encapsulate on the area.

d. Steven Heng did not follow proper protocol in making sure the IFR was not cleared initially before he let Environmental Engineering start renovation.

5. Recommendations.

a. At this time there are no recommendations to be made due to the fact that the floor of the Indoor Firing range has been removed for further renovation work. See attached pictures 2.

b. Once the floor has been replaced and the area cleaned, request swipe sampling once again be conducted for lead contamination. The swipe test must be conducted after renovation and cleaning and before encapsulate is applied.

c. Until the current renovation is complete and the area properly cleaned, ensure no Guardsmen enter the area under renovation.

6. If additional information is needed about the above report, please contact Non-Responsive Non-Responsive Regional Industrial Hygienist at (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: State Safety Office, GA, ATTN: CPT Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: COL Non-Responsive CFMO-Chief, Building 70, 1000 Halsey Ave, Marietta, GA 30062.

CF: Georgia Department of Defense, ATTN: MAJ. Non-Responsive State Construction and Facility Manager, Building 70, 1000 Halsey Ave, Marietta, GA 30062.

Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 11, 2011

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive
College Park GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Savannah Indoor Firing Range

Dear Non-Responsive

Order No: 1105711

Analytical Environmental Services, Inc. received 14 samples on 5/9/2011 11:25:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/10-06/30/11.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Non-Responsive

Project Manager

3785 Presidential Parkway • Atlanta, Georgia 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1105711

Date: 5/5/11 Page 1 of 1

COMPANY: NATIONAL GUARD BUREAU INDUSTRIAL HYGIENE OFFICE	ADDRESS: 510 PLAZA DRIVE, SUITE 1530 COLLEGE PARK, GA 30349
PHONE: (404) 559-4174	FAX: (404) 559-4175
SAMPLED BY: [redacted] FOR [redacted]	SIGNATURE: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)
1	SAV-2-01	5/5/11	1230 PM			
2	SAV-2-02					
3	SAV-2-03					
4	SAV-2-04					
5	SAV-2-05					
6	SAV-2-06					
7	SAV-2-07					
8	SAV-2-08					
9	SAV-2-09					
10	SAV-2-10					
11	SAV-2-11					
12	SAV-2-BLANK					
13	SAV-2-BLANK					
14	SAV-2-BLANK		1:30 PM			

ANALYSIS REQUESTED: LEAD

PRESERVATION (See codes): 3 HNO3

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

REMARKS

No # of Containers

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[redacted] FOR [redacted]		1: [redacted]	5/9/11 1102
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: EMAIL [redacted] @ us.army.mil 2 us.army.mil

SHIPMENT METHOD: OUT 5/6/11 VIA: FEDEX; IN / / VIA: CLIENT FedEx UPS MAIL COURIER ORDER HOUND OTHER

PROJECT INFORMATION

PROJECT NAME: SAVANNAH INDOOR FIRING RANGE

PROJECT #: SAVANNAH

SITE ADDRESS: 1248 EISENHOWER DRIVE SAVANNAH, GA 31406

SEND REPORT TO: [redacted]

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers

- BT Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (with req.)
- Other

STATE PROGRAM (if any).

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 11-May-11

Lab Order:	1105711
Client:	National Guard Bureau Region-South IH
Project:	Savannah Indoor Firing Range
Matrix:	Wipe
Date Received:	5/9/2011 11:25:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1105711-001A	SAV-2-01	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-002A	SAV-2-02	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-003A	SAV-2-03	51	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-004A	SAV-2-04	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-005A	SAV-2-05	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-006A	SAV-2-06	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-007A	SAV-2-07	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-008A	SAV-2-08	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-009A	SAV-2-09	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-010A	SAV-2-10	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-011A	SAV-2-11	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-012A	SAV-2-BLANK	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-013A	SAV-2-BLANK	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA
1105711-014A	SAV-2-BLANK	BRL	ug, Total	20	1		05/05/2011	05/09/2011	TA

Qualifiers: BRL - Not Detected at the Reporting Limit; DF - Dilution Factor

B - Analyte detected in the associated Method Blank

Results are blank corrected where applicable

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GA Army Work Order Number 1105711

Checklist completed by [redacted] 5/9/11
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles? PT 5/9/11	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? ~~(4°C±2)~~*	Yes ✓	No __	

Cooler #1 amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes __	No ✓
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

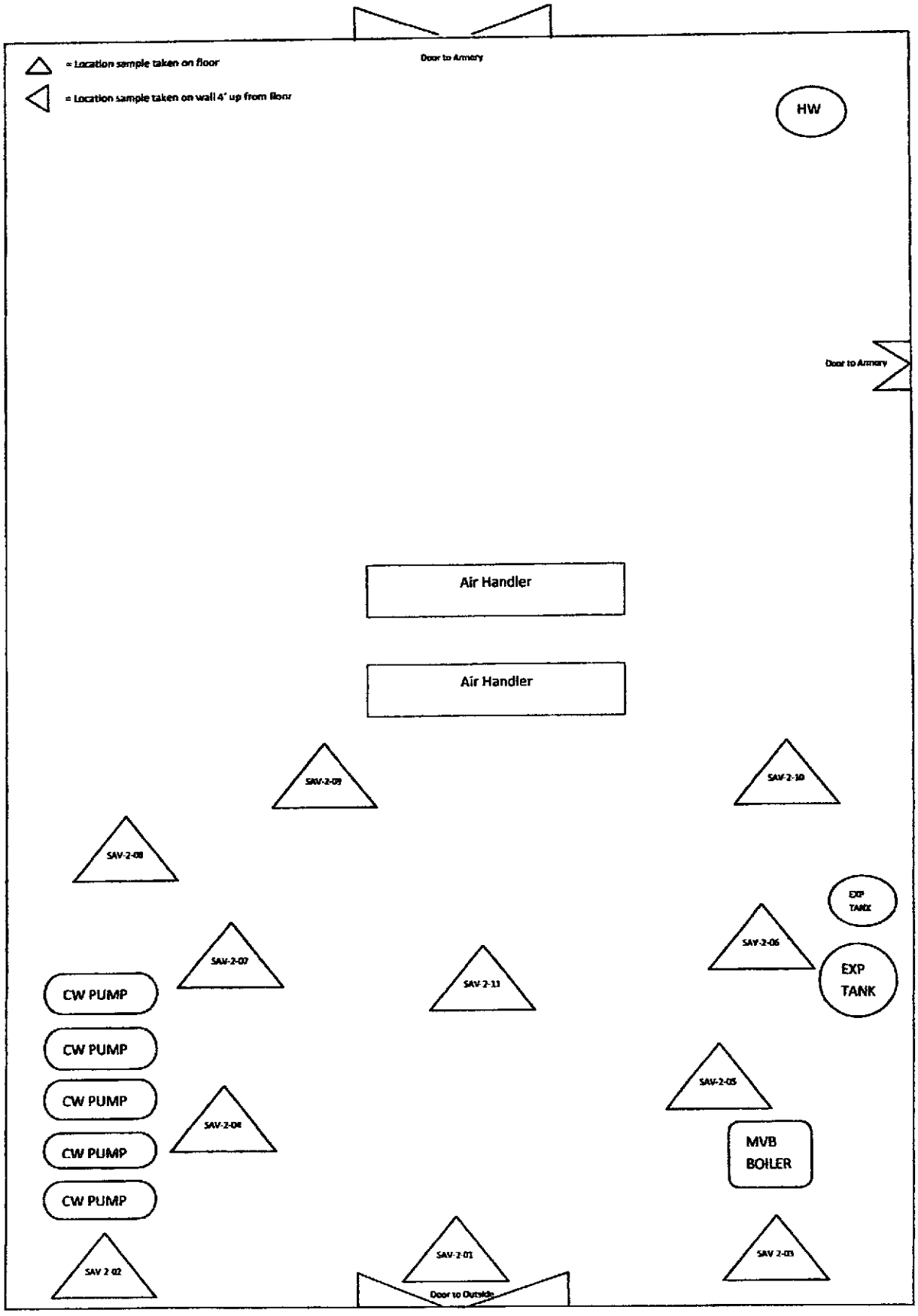
Analytical Environmental Services, Inc

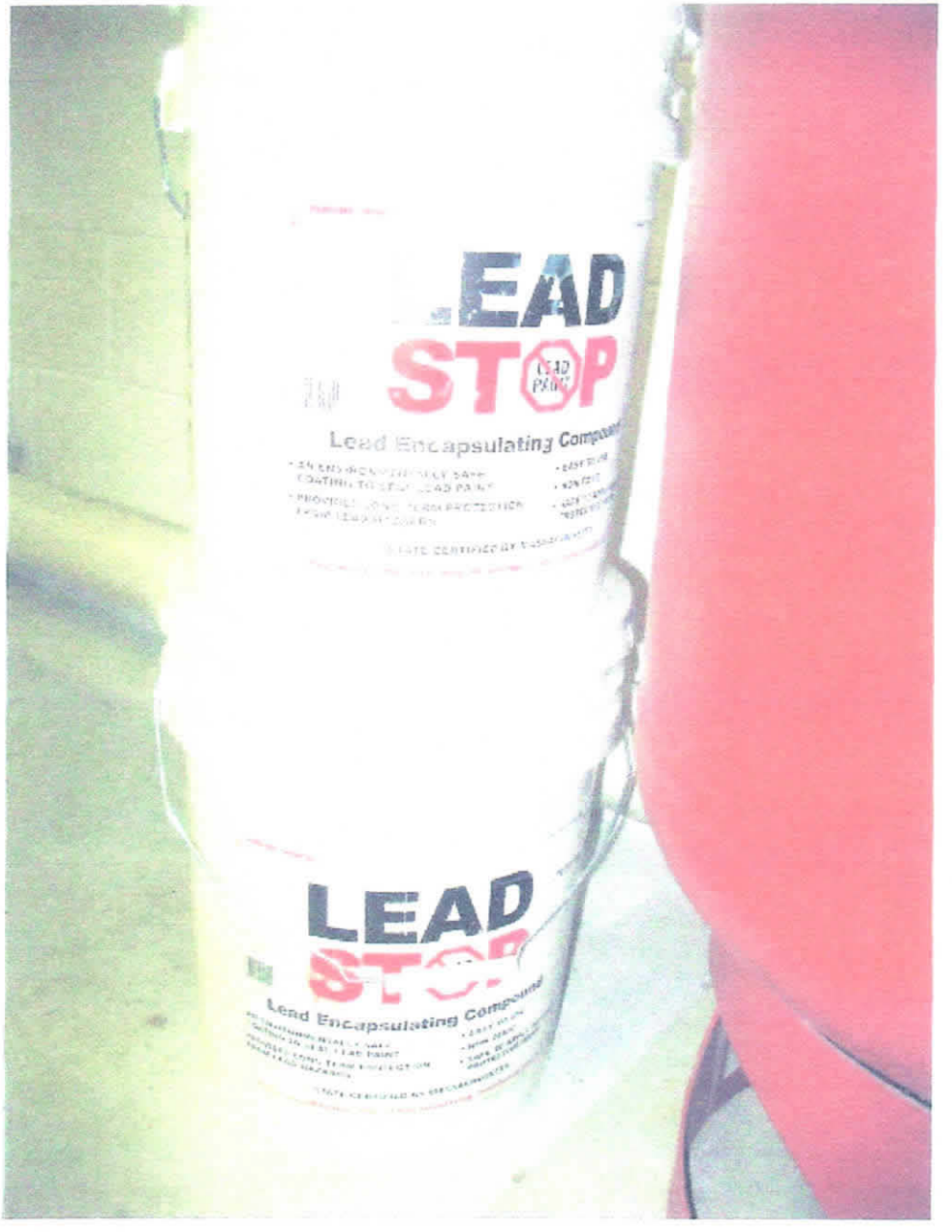
Date: 11-May-11

Client: National Guard Bureau Region-South IH
Project: Savannah Indoor Firing Range
Lab Order: 1105711

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1105711-001A	SAV-2-01	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-002A	SAV-2-02	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-003A	SAV-2-03	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-004A	SAV-2-04	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-005A	SAV-2-05	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-006A	SAV-2-06	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-007A	SAV-2-07	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-008A	SAV-2-08	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-009A	SAV-2-09	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-010A	SAV-2-10	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-011A	SAV-2-11	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-012A	SAV-2-BLANK	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-013A	SAV-2-BLANK	5/5/2011 12:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011
1105711-014A	SAV-2-BLANK	5/5/2011 1:30:00PM	Wipe	LEAD ON WIPES (N9100/7082)		05/09/2011	05/09/2011





SAVANNAH READINESS CENTER-PHOTO LOG
RENOVATIONS-IFR & ROLL-OFF BIN)

These two photos are of the floor where the contaminated cement was taken out of inside the IFR.

The photo on the left is of the cement debris that was found inside the contractor's roll-off dumpster behind the C wing that [redacted] stated came from the constructions in the C wing **NOT** the IFR.

This photo is of the clothing that was found hanging over the contractor's roll-off dumpster behind the C wing.

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

ARNG-CSG-P

March 23, 2011

MEMORANDUM FOR CPT Non-Responsive Georgia Army National Guard, 118th Field Artillery, 1248 Eisenhower Drive, Savannah, GA 31406.

TO: Mr. Non-Responsive Project Manager, Georgia Army National Guard, CFMO, Bldg 70, 1000 Halsey Ave, Marietta, GA 30062.

SUBJECT: Savannah National Guard Armory, Lead Sampling Survey 4 January 2011, Savannah, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

i. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by Mr. Non-Responsive CFMO. Clearance sampling was conducted at the referenced site. The objective of the visit was to determine if the Indoor Firing Range (IFR) was free of lead after clean-up by the contractor.

b. Mr. Non-Responsive Regional Industrial Hygienist with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the lead sampling 4 January 2011.

3. Findings. The laboratory results indicate lead concentrations above the IFR post cleaning standard of 200 micro grams per square foot.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
MKF-5001	Front of room at firing line	1030
MKF-5002	Approx 10 ft in front of bullet stop area	695
MKF-5003	Left wall before bullet stop area	209
MKF-5004	Top of expansion tank in IFR	387
MKF-5005	Blank	BRL

[1] **Results reported in micrograms per square feet ($\mu g/ft^2$)**
[2] **BRL = Below Reportable Limits**

The laboratory report is attached for review.

4. Discussion. A follow-up meeting 4 March 2011 at the Savannah Armory was held with Mr. Non-Responsive the contractor (EnviroLogical Engineering inc.) and myself. Follow-up additional sampling was conducted by Mr. Non-Responsive during that visit and meeting which again revealed lead levels above the recommended standards.

5. Recommendations. Reclean the IFR to get the lead levels below the standard of 200 micro grams per square foot and notify the Regional Industrial Hygiene Office, Mr. Non-Responsive to once again sample the Savannah Armory as soon as the contractor has finished the cleaning.

6. If additional information is needed about the above report, please contac[redacted] Regional Industrial Hygienist at (404) 559-4174.

[redacted]
Regional Industrial Hygienist

CF: State Safety Office, GA, ATTN: LT [redacted] Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: COL [redacted] CFMO-Chief, Building 70, 1000 Halsey Ave, Marietta, GA 30062.

CF: Georgia Department of Defense, ATTN: Mr. [redacted] Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

Mr. [redacted] Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1101B96

Date: 1/10/11 Page ____ of ____

COMPANY: NGB National Guard Bureau
ADDRESS: 510 Plaza Drive Suite 1510 College Park, GA 30349
PHONE: 404-559-4174
FAX: 404-559-4176
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

ANALYSIS REQUESTED: LEAD

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes to left)	PRESERVATION (See codes)	REMARKS
1	MKP-5001	1/4/11	1340					Front Firing Line
2	MKP-5002							10 Ft Front Bullet Stop
3	MKP-5003							Left wall bullet stop
4	MKP-5004							Top Expansion Tank
5	MKP-5005							BLANK
6								
7								
8								
9								
10								
11								
12								
13								
14								

RELINQUISHED BY: [redacted] DATE/TIME:
RECEIVED BY: [redacted] DATE/TIME: 1-10-11 11:55

PROJECT INFORMATION
PROJECT NAME: Savannah Armory
PROJECT #:
SITE ADDRESS: 1248 Eisenhower Drive Savannah, GA 31406
SEND REPORT TO: NGB
INVOICE TO: NGB (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers:
Turnaround Time Request
(X) Standard 5 Business Days
( ) 2 Business Day Rush
( ) Next Business Day Rush
( ) Same Day Rush (auth req.)
( ) Other
STATE PROGRAM (if any)
E-mail? (Y) N. Fax? (Y)
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS: [redacted]@us.army.mil

SHIPMENT METHOD
OUT: VIA
IN:
CLIENT FedEx UPS (MAIL) COURIER
GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice SM+1 = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original, Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 25-Jan-11

Lab Order:	1101B96
Client:	National Guard Bureau Region-South IH
Project:	Savannah Armory
Matrix:	Wipe
Date Received:	1/20/2011 11:55:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1101B96-001A	MKF-5001	1030	ug, Total	41	2.07		01/04/2011	01/21/2011	JY
1101B96-002A	MKF-5002	695	ug, Total	20	1		01/04/2011	01/21/2011	JY
1101B96-003A	MKF-5003	209	ug, Total	20	1		01/04/2011	01/21/2011	JY
1101B96-004A	MKF-5004	387	ug, Total	20	1		01/04/2011	01/21/2011	JY
1101B96-005A	MKF-5005	BRL	ug, Total	20	1		01/04/2011	01/21/2011	JY

Qualifiers: BRL - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH

September 11, 2008

MEMORANDUM THRU LT. Non-Responsive Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. Non-Responsive Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Valdosta National Guard Armory, Lead Sampling Survey, Valdosta, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 August 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On August 26, 2008, a site visit was conducted and at the time of the sampling activity, the interior of the former IFR appeared to have undergone conversion to a training/classroom. The flooring was observed to be covered with vinyl floor tile and there was a drop ceiling present completed with 2 feet by 2 feet acoustical ceiling panels. Painted cinder-block walls were observed with offices constructed near the area identified as the former location of the bullet stop. As a result of the renovated room, sampling locations were limited to exposed wall surfaces and flooring.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. Lead dust samples were collected using Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 18 samples were collected from each exposed surface area of the former IFR including 2 from office furniture observed inside the former IFR. There were no samples collected from the ceiling as a result of the presence of the acoustical panels.

Collected samples were submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results did not indicate the presence of lead concentrations above the IFR post cleaning standard of 200micrograms per feet squared ($\mu g/ft^2$). These sampling results indicate that any previous decontamination activities appear to be adequate to remove the lead dust from the former range at acceptable levels. It should be noted that

the sampling activities were completed in a former IFR which has undergone conversion/renovation.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
VA-01	Lower Wall at Former Bullet Stop	BRL[2]
VA-02	Middle Wall at Former Bullet Stop	BRL
VA-03	Upper Wall at Former Bullet Stop	BRL
VA-04	Lower Right Wall	87
VA-05	Middle Right Wall	BRL
VA-06	Upper Right Wall	BRL
VA-07	Lower Rear Wall	BRL
VA-08	Middle Rear Wall	BRL
VA-09	Upper Rear Wall	BRL
VA-10	Lower Left Wall	BRL
VA-11	Middle Left Wall	BRL
VA-12	Upper Rear Wall	BRL
VA-13	Floor, Electrical Room	BRL
VA-14	Floor, Telecom Room	BRL
VA-15	Floor Outside Former Bullet Stop	BRL
VA-16	Field Blank	BRL
VA-17	Wooden Field Table	BRL
VA-18	Metal Wall Locker	108

[1] Results reported in micrograms per square feet ($\mu g/ft^2$)
[2] BRL = Below Reportable Limits

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. The former IFR inside the Valdosta Armory has been converted to a training/storage room and it appears that lead dust is not present at concentrations above the NGB standard of 200 $\mu g/ft^2$. It should be noted that the sampling activities were limited to exposed areas observed inside the former IFR.

b. In accordance with NGB Pamphlet 420-15, continue lead testing on an annual basis to verify that lead has not migrated from the substrate. The annual sampling shall include areas of the ceiling, walls and floors. Following the annual sampling event, if lead concentrations are less than 200 $\mu g/ft^2$, the walls of the former IFR shall be coated with a lead dust encapsulant. Conventional paint can not be used as an encapsulant. It should be noted that the referenced guidance document does not address coating the ceiling. However, it appears that the presence of the drop ceiling with acoustical ceiling panels would be sufficient barrier to prevent potential lead migration and exposure.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 05, 2008

Non-Responsive
National Guard Bureau Region-South IH
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349
TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Valdosta Armory

Order No.: 0808K24

Dear Non-Responsive

Analytical Environmental Services, Inc. received 18 samples on 8/29/2008 3:15:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 5 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0809A24

Date: 8/29/08 Page 1 of 2

COMPANY: Region South HQ Office
ADDRESS: 510 Perimeter Drive Ste 1530 College Park, GA
PHONE: 404/559-4174
FAX: 404/559-4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No # of Containers
1	Va-01	8/27/08		X		Wipe	X	1'x1' Sample	1
2	Va-02			X			X		1
3	Va-03			X			X		1
4	Va-04			X			X		1
5	Va-05			X			X		1
6	Va-06			X			X		1
7	Va-07			X			X		1
8	Va-08			X			X		1
9	Va-09			X			X		1
10	Va-10			X			X		1
11	Va-11			X			X		1
12	Va-12			X			X		1
13	Va-13			X			X		1
14	Va-14			X		Wipe	X		1

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

BEST AVAILABLE COPY

FedEx

RELINQUISHED BY: [redacted] DATE/TIME: 8/29/08 1500
RECEIVED BY: [redacted] DATE/TIME: 8/29/08 1515

PROJECT INFORMATION
PROJECT NAME: Valdosta Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 14

Turnaround Time Request
- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

STATE PROGRAM (if any):
E-mail? Y N Fax? Y N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: VIA
IN: (CLIENT) FedEx UPS MAIL COURIER GREYHOUND OTHER

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0808A24

Date: 8/29/08 Page 2 of 2

COMPANY: Region South Int Office
ADDRESS: 510 Plaza Dr. Ste 1050 College Park
PHONE: 404 559-4174
FAX: 404 559-4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No. # of Containers
1	Va-15	8/27/08		X		WG	X	1'X1' Sample	1
2	Va-16	"		X		"	X		1
3	Va-17	"		X		"	X	1'X1' sample	1
4	Va 18	"		X		"	X	" "	1
5									
6									
7									
8									
9									
10									
11									
12									
13									

ANALYSIS REQUESTED: Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY: [redacted] DATE/TIME: 8/29/08/1500
RECEIVED BY: [redacted] DATE/TIME: 8/29/08 2:15
3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: VIA:
IN: VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Valdosta Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: PO#:

RECEIPT
Total # of Containers: 18

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any):
E-mail? Y N Fax? Y N
DATA PACKAGE I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid S = Sulfuric acid + ice S/M = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client GH Army Work Order Number 0108K24

Checklist completed by [redacted] 8/30/8
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (~~4°C±2°~~)*	[redacted] 8/30 Yes ✓	No __	

Cooler #1 Amb Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

I:\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample Cooler Receipt Checklist

Analytical Environmental Services, Inc.

Date: 9/5/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Valdosta Armory
Delivery Order:
PO No:

Lab Order: 0808K24
Date Received: 8/29/2008 3:15 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0808K24-001A	VA-01	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-002A	VA-02	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-003A	VA-03	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-004A	VA-04	87	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-005A	VA-05	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-006A	VA-06	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-007A	VA-07	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-008A	VA-08	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-009A	VA-09	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-010A	VA-10	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-011A	VA-11	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-012A	VA-12	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-013A	VA-13	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-014A	VA-14	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-015A	VA-15	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-016A	VA-16	BRL	ug, Total	20	1	8/27/2008	9/5/2008	TAA
0808K24-017A	VA-17	BRL	µg/ft²	20	1	8/27/2008	9/5/2008	TAA
0808K24-018A	VA-18	108	µg/ft²	20	1	8/27/2008	9/5/2008	TAA

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

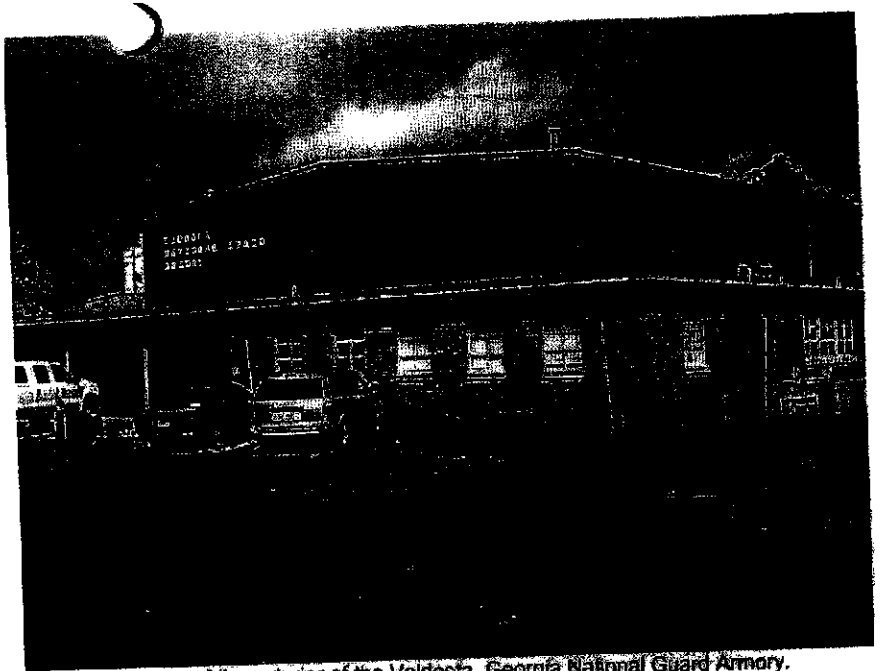


Photo 1: View of the exterior of the Valdosta, Georgia National Guard Armory.

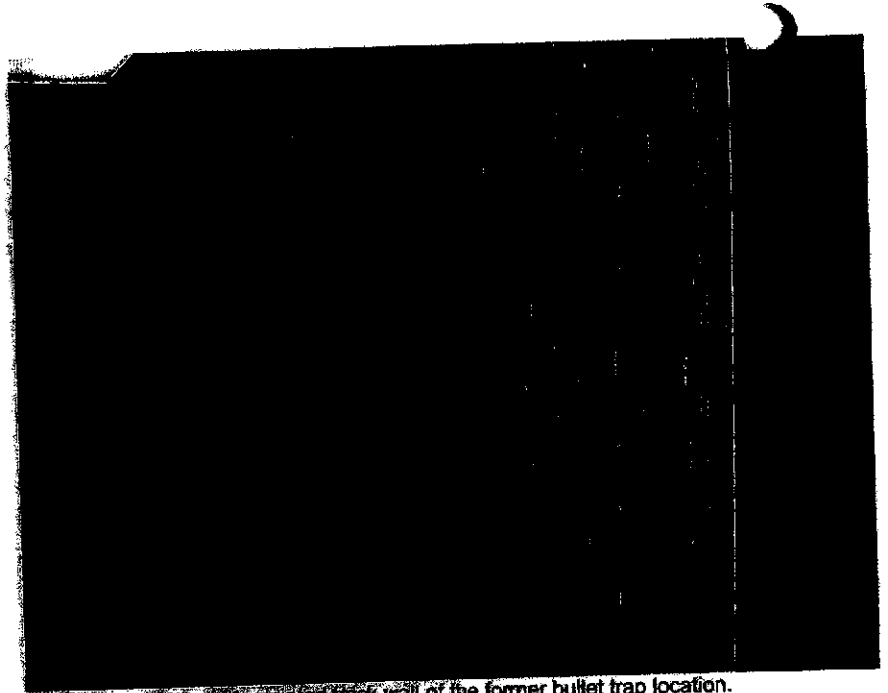


Photo 2: View of the painted brick wall of the former bullet trap location.

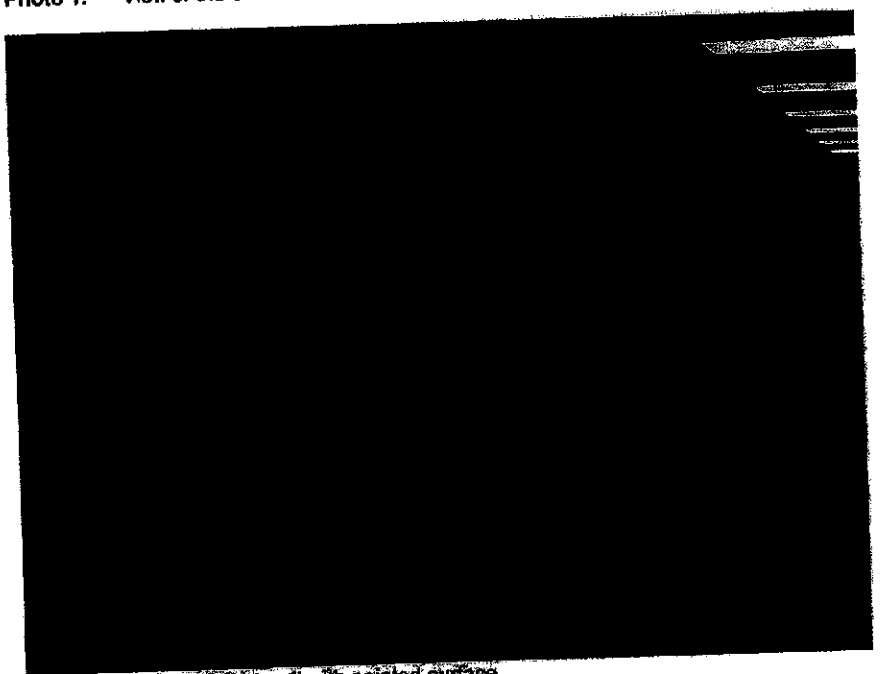


Photo 3: View of right wall with painted surface.

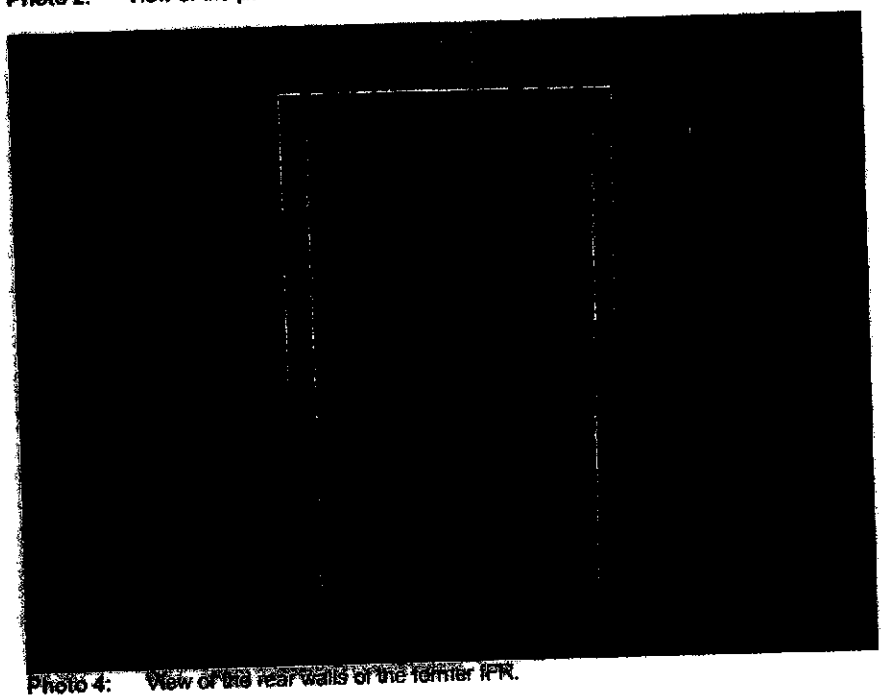


Photo 4: View of the rear walls of the former IFR.

Project Name: Valdosta, Georgia Armory

Date Photos Taken: 26 August 2008

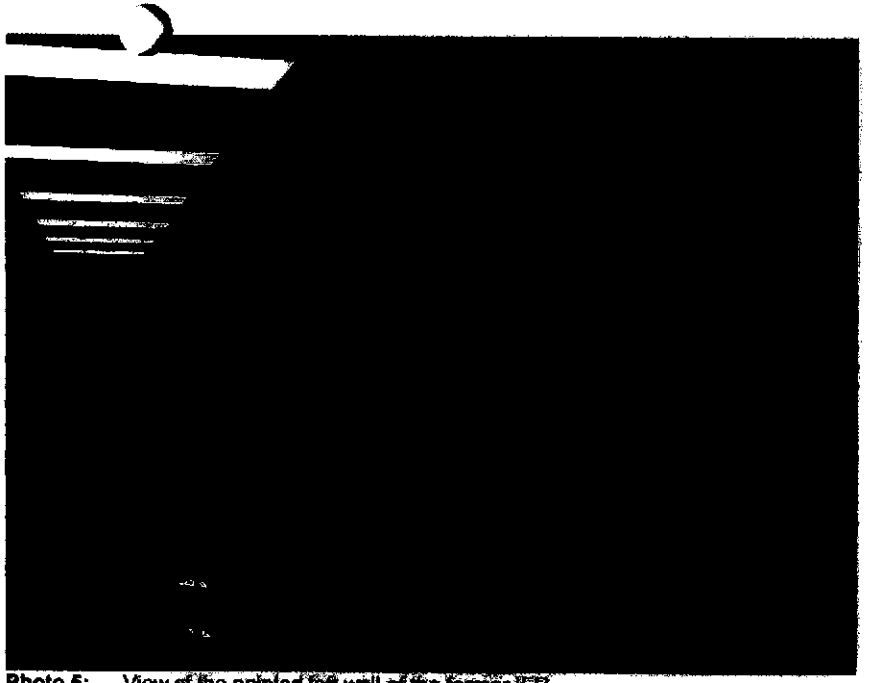


Photo 5: View of the painted left wall of the former IFR.

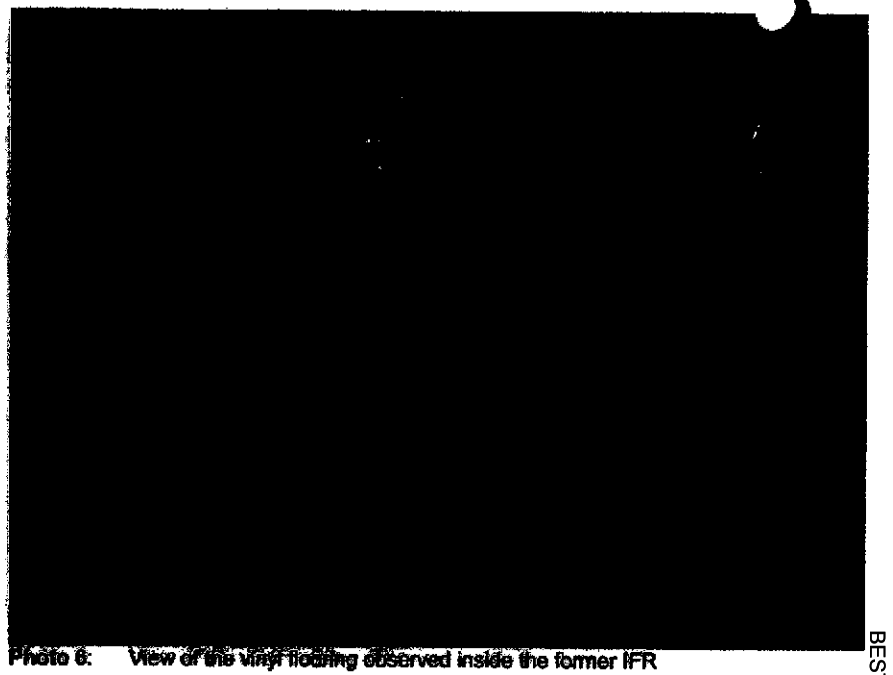


Photo 6: View of the vinyl flooring observed inside the former IFR

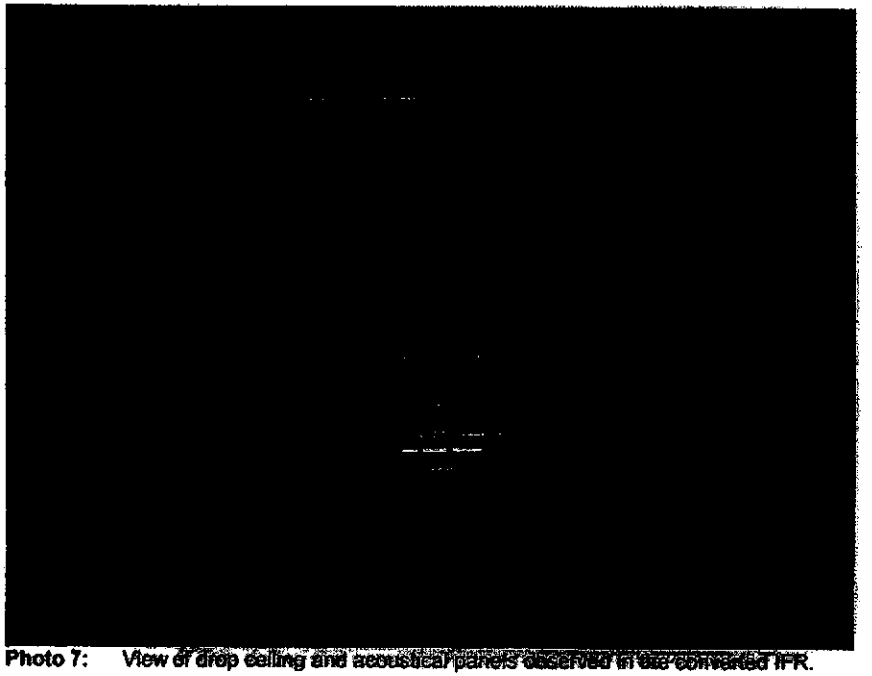


Photo 7: View of drop ceiling and acoustical panels observed in the converted IFR.

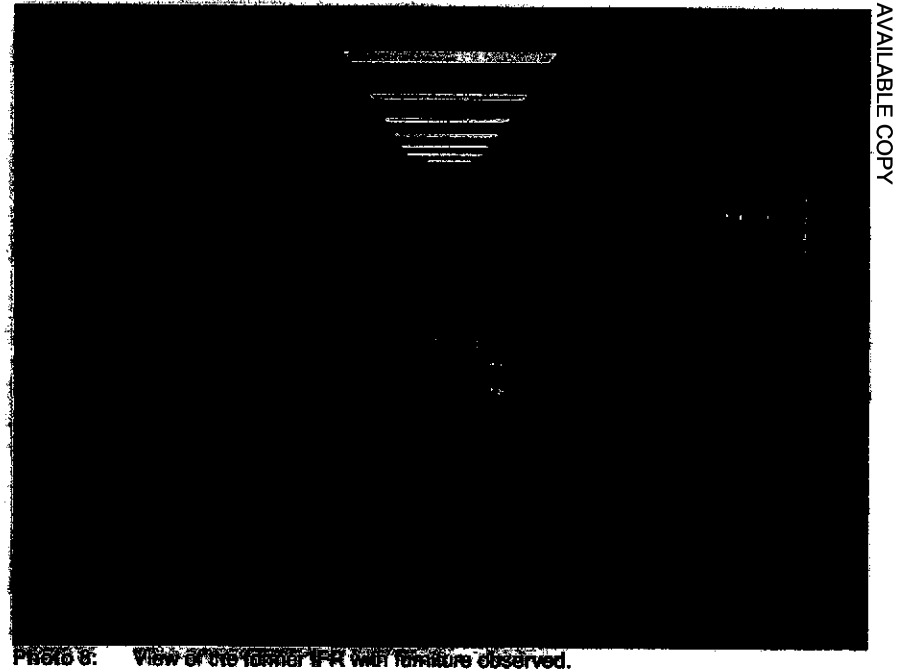


Photo 8: View of the former IFR with furniture observed.

Project Name: Valdosta, Georgia Armory

Date Photos Taken: 26 August 2008

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-ARS-SEIH

September 12, 2008

MEMORANDUM THRU LT. [redacted] Deputy State Surgeon, Georgia Army National Guard, Medical Command, 5019 Highway 42, Ellenwood, GA 30294.

TO: Mr. [redacted] Georgia Army National Guard, CFMO-Environmental Officer, Post Office Box 437, Hinesville, GA 31315-5066.

SUBJECT: Waycross Army National Guard Armory, Lead Sampling Survey, Waycross, Georgia.

1. References.

a. Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

b. Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 August 2005.

c. National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

d. AR 385-10, The Army Safety Program, 29 February 2000.

e. NGR Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

f. NGR 385-15, Policy and Responsibilities, Evaluation and Operation of Army National Guard Indoor Firing Ranges, 3 November 2006.

g. DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

h. Threshold Limit Values and Biological Exposure Indices (TLV's) for 2003, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.

i. Industrial Ventilation, 23rd Edition, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a. As requested by, Georgia Occupational Health Office, personnel with the National Guard Region South Office performed a visual inspection at the referenced site. The apparent objective of the inspection was to collect surface wipe samples from the former Indoor Firing Range (IFR) for analysis of total lead to confirm/deny the presence of lead dust at concentrations above regulatory standards.

b. Sergeant (SGT) Non-Responsive with the National Guard Region South Industrial Hygiene Office in College Park Georgia performed the site visit.

3. Findings.

General Information

On August 27, 2008, a site visit was conducted and at the time of the sampling activity, the bullet stop was observed inside the firing range. It was also noted that the armory was vacant and was currently used for storing items used for emergency activities, to include blankets, pillows with insulation also observed. The surface areas inside the former IFR were observed to be constructed of cinder-block walls with concrete floors and the ceiling was constructed of metal covered with sound proofing. Portions of the walls were covered with sound-proofing materials. At the rear of the firing range a wooden/particle board constructed partition with Plexiglas windows was observed. The rear wall of the former range was beyond the partition and was accessible for lead sample collection.

Sampling Activities

Based on the number of surfaces observed, samples were collected in accordance with NG Pam 420-15. The dust samples were collected using Ghost Wipes™ which are pre-moistened media made of non-woven polyvinyl alcohol fiber and approved by American Industrial Hygiene Association (AIHA) for lead sampling. The wipes also meet all American Standards Testing Materials (ASTM) Designation E1792-96E specifications for sampling materials for lead in surface dust.

The surface samples were collected by SGT Non-Responsive using a 1 square foot sampling template placed on the surface area identified for sampling. The area within the template was wiped using a new Ghost Wipe™. After the area inside the template was wiped, the sampling media was placed into a labeled re-sealable plastic bag and sealed. After each sample collection, a new surface area template was used and new disposable gloves were donned. A total of 19 samples were collected including three from each surface area for submittal to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for subsequent analysis of total lead. In addition, one wipe sample was placed into a re-sealable bag and submitted as field blank samples for analysis.

Laboratory Results

The laboratory results indicate lead concentrations detected above the IFR post cleaning standard. These sampling results indicate that any previous decontamination activities were not adequate to remove the lead dust from the former range at acceptable levels. In accordance with the National Guard Bureau Pamphlet 420-15, the IFR cannot be

converted for other uses until the lead dust levels are reduced to 200µg/ft^2 or lower depending on local requirements.

The results of the lead dust sampling activities are summarized in the following table.

Sample Number	Sample Location	Laboratory Results[1]
WA-01	**Lower Wall, Bullet Stop**	**71,300**
WA-02	**Middle Wall, Bullet Stop**	**3,910**
WA-03	**Upper Wall, Bullet Stop**	**244**
WA-04	**Lower Right Wall**	**1,060**
WA-05	*Middle Right Wall*	*41*
WA-06	*Upper Right Wall*	*131*
WA-07	**Lower Rear Wall**	**203**
WA-08	**Middle Rear Wall**	**592**
WA-09	**Upper Rear Wall**	**303**
WA-10	**Lower Left Wall**	**1,140**
WA-11	*Middle Left Wall*	*52*
WA-12	**Upper Left Wall**	**491**
WA-13	**Floor at Bullet Stop**	**2,890**
WA-14	**Middle Floor**	**533**
WA-15	**Floor at Rear Wall**	**578**
WA-16	*Ceiling at Bullet Stop*	*BRL*[2]
WA-17	*Middle Ceiling*	*BRL*
WA-18	*Ceiling at Rear Wall*	*41*
WA-19	*Wooden Table, Top*	*94*

[1] Results reported in micrograms per square feet (µg/ft^2)
[2] BRL = Below Reportable Limits

The laboratory report, including the Chain of Custody record is attached for review.

4. Recommendations.

a. Ensure that the former indoor firing range remains closed and secured to prevent unauthorized entry into this area.

b. Review NG Bureau Pamphlet 420-15 prior to conducting decontamination of the IFR and conduct cleaning activities in accordance with the regulatory document. Keep in mind that EPA (40 CFR Subpart D) and your state may have lead reduction levels lower than the levels recommended in NG Bureau Pamphlet 420-15.

c. Prior to initiating decontamination activities and in accordance with 29 CFR 1910.1025, perform and conduct training for employees exposed to lead concentrations above the standard or who may suffer skin or eye irritation from exposure to lead.

d. Ensure that appropriate personal protective equipment is worn during decontamination activities.

e. Consult with local Environmental Agency for guidance on proper disposal of materials used in decontaminating the IFR.

f. Upon completion of the decontamination activities, contact the Regional IH office for evaluation and collection of confirmatory lead dust samples.

5. If additional information is needed about the contractors report, please contact SGT Non-Responsive Regional Industrial Hygiene Technician, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: Georgia Army National Guard, ATTN: LT Non-Responsive Deputy State Surgeon Office, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: MAJ. Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive CFMO-ENV Building 21, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

CF: Georgia Department of Defense, ATTN: Mr. Non-Responsive Facilities Maintenance Manager, Building 12, 935 E. Confederate Avenue, SE, Atlanta, GA 30316.

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

September 05, 2008

Non-Responsive

National Guard Bureau Region-South III
510 Plaza Drive, Suite 1530
Suite 1530
College Park, GA 30349

TEL: (404) 559-4174
FAX: (404) 559-4175

RE: Waycross Armory

Order No.: 0808K08

Dear Non-Responsive

Analytical Environmental Services, Inc. received 19 samples on 8/29/2008 3:15:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 5 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Non-Responsive

Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770)457-8188

BEST AVAILABLE COPY

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presid. Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: D1000KO
Date: 8/29/08 Page 1 of 2

COMPANY: Regional Safety IH Office
ADDRESS: 310 Plaza Dr., Ste 1530 College Park, GA 3014
PHONE: 4/559-4174
FAX: 4/559-4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No # of Containers
1	Wa - 01	8/27/08		X		Wipe	X	1'x1' sample	1
2	Wa-02			X			X		1
3	Wa-03			X			X		1
4	Wa-04			X			X		1
5	Wa-05			X			X		1
6	Wa-06			X			X		1
7	Wa-07			X			X		1
8	Wa-08			X			X		1
9	Wa-09			X			X		1
10	Wa-10			X			X		1
11	Wa-11			X			X		1
12	Wa-12			X			X		1
13	Wa-13			X			X		1
14	Wa-14			X			X		1

PRESERVATION (See codes)

RELINQUISHED BY: [redacted] DATE/TIME: 8/29/08/1510
RECEIVED BY: [redacted] DATE/TIME: 8/29/08 3:15
3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: WayCross Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers: 14

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):
E-mail? Y/N; Fax? Y/N
DATA PACKAGE I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

AES ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: ___
Date: 8/28/08 Page 2 of 2

COMPANY: Region South EA Office
ADDRESS: 510 Plaza Dr. Ste 1530 College Park, GA 30141
PHONE: 4/559-4174
FAX: 4/559-4175
SAMPLED BY: [redacted]
SIGNATURE: [redacted]

ANALYSIS REQUESTED: Lead

Visit our website **www.aesatlanta.com** to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Lead	REMARKS	No # of Containers
1	Wa-15	8/27/08		X		Wipe	X	1'X1' sample	1
2	Wa-16	"		X		"	X	" "	1
3	Wa-17	"		X		"	X	" "	1
4	Wa-18	"		X		"	X	" "	1
5	Wa-19	"		X		"	X		1
6									
7									
8									
9									
10									
11									
12									
13									
14									

PRESERVATION (See codes)

RELINQUISHED BY: [redacted] DATE/TIME: 8/29/08 /1510
RECEIVED BY: [redacted] DATE/TIME: 8/29/08 2:15

PROJECT INFORMATION
PROJECT NAME: Waycross Armory
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: [redacted]
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: ___ PO#: ___

RECEIPT
Total # of Containers: 19

Turnaround Time Request
- ● Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other ___

STATE PROGRAM (if any): ___
E-mail? Y/N; Fax? Y/N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA
IN / / VIA
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER ___

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfite/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client National Guard Work Order Number 0806K98

Checklist completed by [redacted] 8/30/8
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition?	Yes ✓	No __	Not Present __
Custody seals intact on shipping container/cooler?	Yes __	No __	Not Present ✓
Custody seals intact on sample bottles?	Yes __	No __	Not Present ✓
Container/Temp Blank temperature in compliance? (4°C ± 2°C)*	[redacted] 8/30/8 Yes ✓	No __	

Cooler #1 Amber Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __
Chain of custody signed when relinquished and received?	Yes ✓	No __
Chain of custody agrees with sample labels?	Yes ✓	No __
Samples in proper container/bottle?	Yes ✓	No __
Sample containers intact?	Yes ✓	No __
Sufficient sample volume for indicated test?	Yes ✓	No __
All samples received within holding time?	Yes ✓	No __
Was TAT marked on the COC?	Yes ✓	No __
Proceed with Standard TAT as per project history?	Yes __	No __ Not Applicable ✓
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes __ No __
Water - pH acceptable upon receipt?	Yes __	No __ Not Applicable ✓

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters

Analytical Environmental Services, Inc.

Date: 9/16/2008

LEAD ON WIPES (N9100/7082)
N7082

CLIENT: National Guard Bureau Region-South IH
Project: Waycross Armory
Delivery Order:
PO No:

Lab Order: 0808K08
Date Received: 8/29/2008 3:15 PM
Matrix: Wipe

Laboratory ID	Client Sample ID	Results	Units	Report Limit.	DF	Date Collected	Date Analyzed	Analyst
0808K08-001A	WA-01	71300	µg/ft²	2000	100	8/27/2008	9/4/2008	TAA
0808K08-002A	WA-02	3910	µg/ft²	86	4.32	8/27/2008	9/4/2008	TAA
0808K08-003A	WA-03	244	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-004A	WA-04	1060	µg/ft²	42	2.11	8/27/2008	9/4/2008	TAA
0808K08-005A	WA-05	41	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-006A	WA-06	131	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-007A	WA-07	203	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-008A	WA-08	592	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-009A	WA-09	303	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-010A	WA-10	1140	µg/ft²	45	2.23	8/27/2008	9/4/2008	TAA
0808K08-011A	WA-11	52	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-012A	WA-12	491	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-013A	WA-13	2890	µg/ft²	78	3.9	8/27/2008	9/4/2008	TAA
0808K08-014A	WA-14	533	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-015A	WA-15	578	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-016A	WA-16	BRL	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-017A	WA-17	BRL	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-018A	WA-18	41	µg/ft²	20	1	8/27/2008	9/4/2008	TAA
0808K08-019A	WA-19	94	ug, Total	20	1	8/27/2008	9/4/2008	TAA

Qualifiers: BRL - Not Detected at the Reporting Limit DF - Dilution Factor

Results are blank corrected where applicable

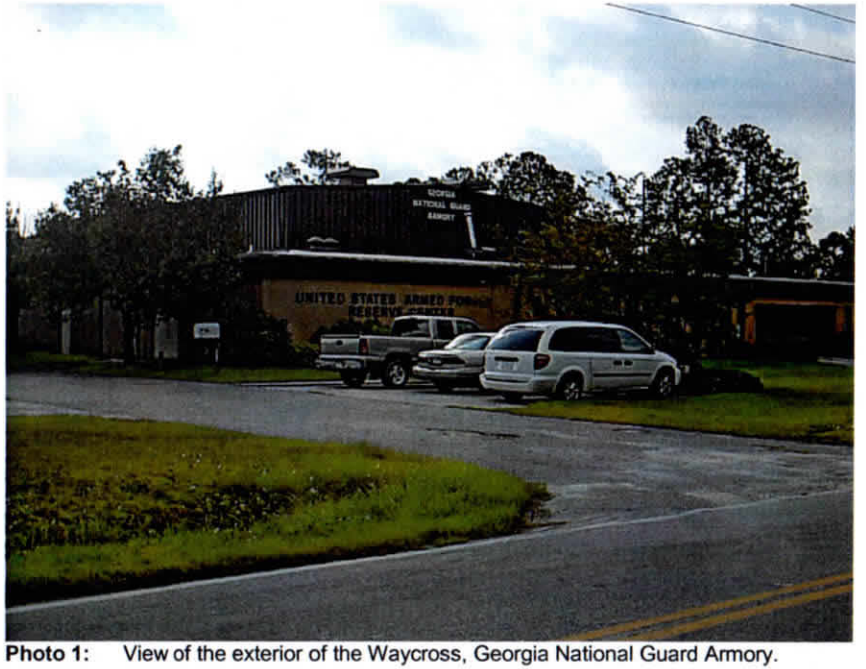


Photo 1: View of the exterior of the Waycross, Georgia National Guard Armory.

Photo 2: View of the bullet trap inside the former indoor firing range.

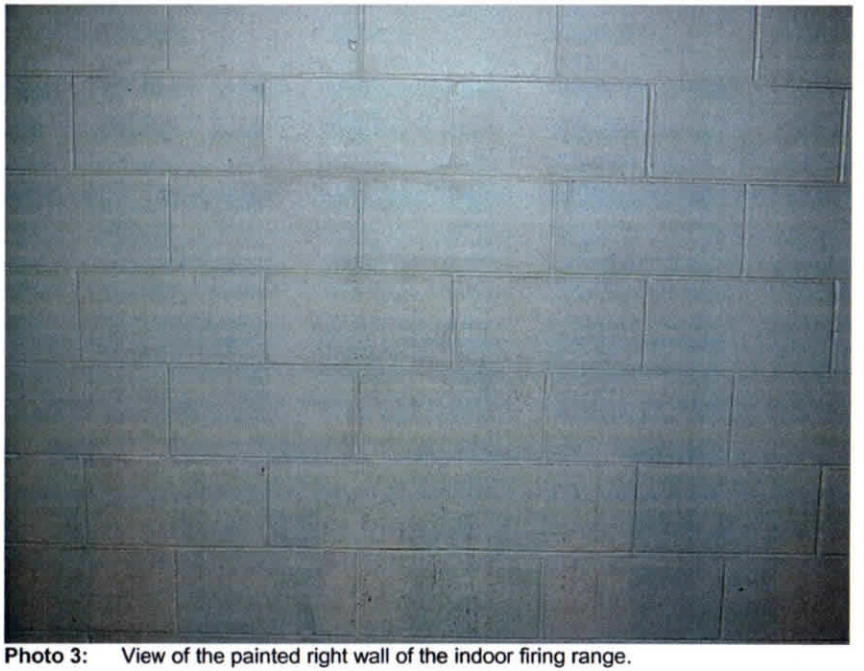


Photo 3: View of the painted right wall of the indoor firing range.

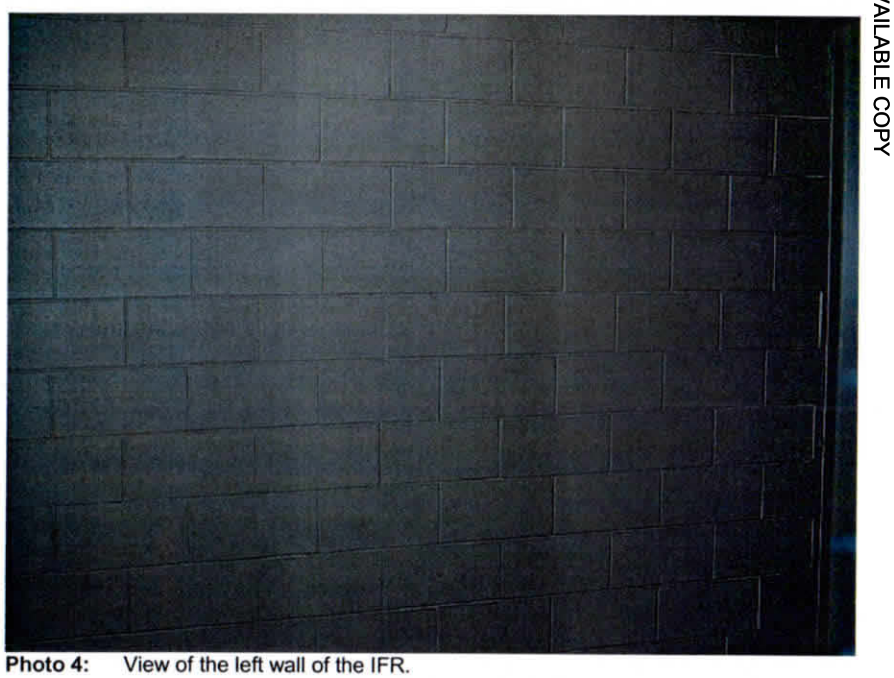


Photo 4: View of the left wall of the IFR.

Project Name: Waycross Georgia Armory

Date Photos Taken: 27 August 2008

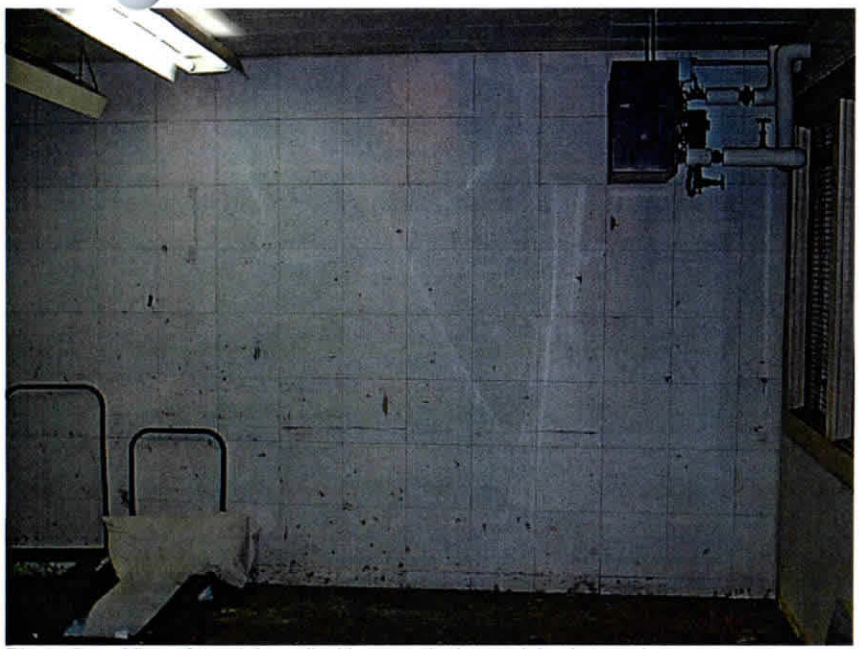


Photo 5: View of the right wall with acoustical materials observed.

Photo 7: View of the concrete floor observed on the interior of the firing range.

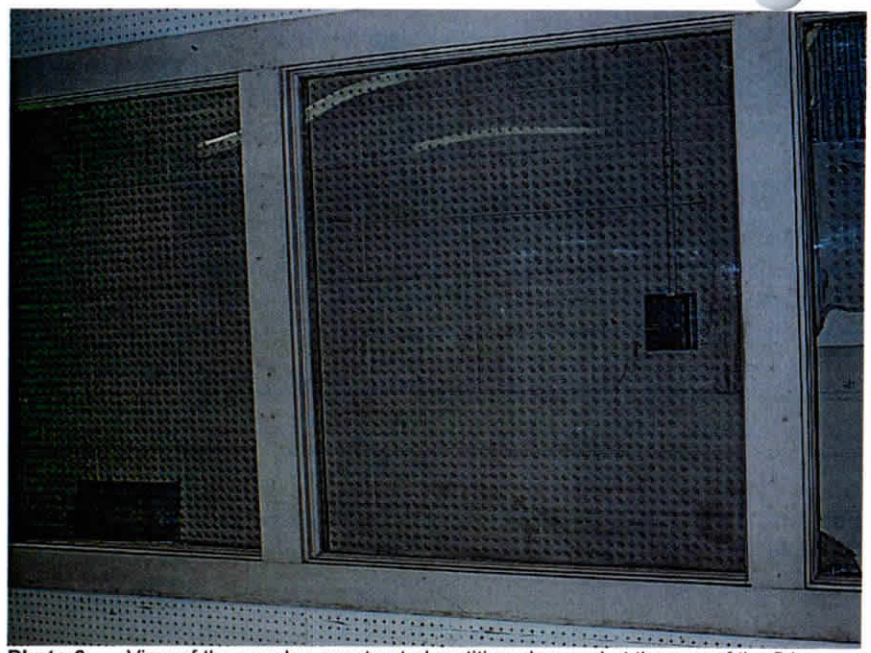


Photo 6: View of the wooden constructed partition observed at the rear of the firing range.

Photo 8: View of a portion of the ceiling of the indoor firing range.

Project Name: Waycross Georgia Armory

Date Photos Taken: 27 August 2008

Industrial Hygiene Report
For
Georgia National Guard
HHC 1st BN 121ST IN
95 Maynard St.
Winder, Georgia 30680

Prepared for:
National Guard Bureau
Regional Industrial Hygiene Office
Region South
510 Plaza Drive, Suite 1530
College Park, Georgia 30349

NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE COLLEGE PARK, GA 30349

ARNG-CSG-P

February 20, 2012

MEMORANDUM FOR: Georgia Army National Guard, ATTN: MAJ Non-Responsive 95 Maynard St. Winder, GA 30680.

SUBJECT: HHC Company 1st BN 121ST IN and Downtown (Temporary) FMS Shop National Guard Armory February 17, 2012.

1. References.

a) NG PAM 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006.

b) Department of Defense Instruction 6055.1, Department of Defense Occupational Safety and Health (OSH) Program, 26 October 1984.

c) EPA, Guidance for Controlling Asbestos Containing Materials in Buildings, June 1985.

d) MEMORANDUM SGPS-PSP, OTSG, subject: AMEDD Role Supporting Asbestos Abatement/ Asbestos Management Programs, 19 January 1989.

e) TB MED 513, Guidelines for the Evaluation and Control of Asbestos Exposure, 15 December 1986. [10/2007 Under Revision as DA PAM 40-513]

f) Army Regulation (AR) 40-5, Medical Service, Preventive Medicine, 22 July 2005.

g) National Guard Regulation (NGR) 385-10, Army National Guard Safety and Occupational Health Program, 1988.

h) DA PAM 40-503, The Army Industrial Hygiene Program, 30 October 2000.

i) Title 29, Code of Federal Regulations (CFR), 2001 rev., part 1910, Occupational Safety and Health Standards.

2. General.

a) An Industrial Hygiene survey was conducted at HHC Company 1st BN 121ST IN National Guard Armory February 17, 2012. The purpose of this visit was to conduct a formal walk through while identifying hazards and making recommendations regarding those hazards. During the survey lead wipe test,

determining the presence of mold, and asbestos testing was conducted to determine if the previous mentioned hazards are present in the armory.

b) Mr. Non-Responsive Industrial Hygienist, SSG Non-Responsive Industrial Hygiene Technician and SPC Non-Responsive Industrial Hygiene Technician, National Guard Bureau Regional Industrial Hygiene Office conducted the walk through.

3. **Instrumentation.** The following instrumentation was used to determine ventilation rates, illumination measurements, and photographically document findings.

a) Extech Light Meter, Model 407026, S/N:Q009471, Calibrated: 07/20/2011
b) Canon camera, PowerShot A2200, S/N: 282063093333

4. **Findings.**

Main Building

a) Efflorescence was apparent in the walls of the Indoor Firing Range in the basement.
b) Sewage back up in both the men and female latrine.
c) Mold was found in the air conditioning units.
d) Mold on walls because of apparent leaks from roof.
e) Soldiers reported hearing rodents in the space between the ceiling and roof.
f) Holes and watermarks were seen on ceiling panels throughout the facility. Ceiling panels were missing in some areas of the facility. Ceiling tile falling due to the amount of water leakage in staff occupied offices.
g) Soldiers are occupying areas that are not properly ventilated.
h) Rusty pipes in the boiler room. Damaged pipe insulation was seen throughout the facility.
i) Water fountain leaks when plugged in.
j) Light bulbs burned out and some were missing. Some light covers were stained.
k) Material Safety Data Sheets (MSDS) were in binders with chemical inventory list.

FMS Downtown Temporary Building

a) The latrine has apparent mold issues.
b) Ceiling tiles has extreme water damage.
c) Exhaust vents were dirty.
d) Mold growing on the walls.
e) Eyewash stations not working. Shower station was not present.
f) No water in facility other than the latrine.
g) Fire extinguisher is present but has not been serviced since 2008.

h) Pipe insulation is damaged.
i) Chemicals in flammable cabinet were not organized properly.
j) Safety signs were seen in the area.

5. Lead

a) Laboratory findings show that there is lead present in the samples taken from the Indoor Firing Range and also in the mortar bay area.
b) The amount of lead found in these areas is significantly higher than the reporting limit.

The results are illustrated in the chart below.

Sample Number	Sample Location	Laboratory Results
MN080 HHC- 121	Supply Vault Wall B	Not Detected
MN081 HHC- 121	Supply Vault Wall C	Not Detected
MN083 HHC- 121	Range Room Wall	Not Detected
MN084 HHC- 121	Indoor Firing Range Floor	12,200ug
MN085 HHC- 121	Indoor Firing Range Wall A	225ug
MN087 HHC- 121	Scout Bay Floor	Not Detected
MN088 HHC- 121	Mortar Bay Floor	43ug

6. Asbestos

a) Laboratory findings show that there were no asbestos in the pipe insulation or range room samples.

The results are illustrated in the chart below.

Sample Number	Sample Location	Laboratory Results
MN082 HHC- 121	Range Room Wall C	Not Detected
MN086 HHC- 121	Drill Hall Pipe Insulation	Not Detected

7. Illumination

Location	Number of Fixtures/ Lights per Fixture	Number of burned out tubes	Illumination Foot Candles (FC)
Boiler Room	6 Fixture, 1 each		10.6-31.6

BN XO	6 Fixture, 2 each	1 Fixture out	10.4-52.2
CSM Office	2 Fixtures, 3 each		44.7-94.1
R& R NCOIC	2 Fixtures, 3 each		52.6-104.5
S1 Officer	2 Fixtures, 3 each	2 Bulbs out	
BN Pac	7 Fixtures, 3 each	4 Bulbs out	29.5-68.5
Workout Area	16 Fixture, 1 each		13.5-18.1
Utility (mop) Room	4 Fixture, 2 each		23.6-32.2
BN CMD	4 Fixture, 3 each		49.3-68.3
Distribution Room	2 Fixture, 2 each		7.4-20.8
Conference Room	6 Fixture, 3 each	2 Bulbs out	27.6-50.4
Echo Supply Room	16 Fixture, 1 each		3.9-12.9
Echo Supply Office	2 Fixture, 3 each	1 Fixture out	36.5-50.8
Vault	2 Fixture, 1 each		12.9-24.3
Scout Bay	4 Fixture, 1 each		7.9-11.5
Kitchen	6 Fixture, 3 each		111.3-154.2
Latrine	7 Fixture, 2 each		6.6-42.6
Drill Hall	28 Fixture, 1 each	4 Fixtures out	.9-4.5
Mortar Bay	2 Fixture, 2 each		24.3-40.6
GSDF	4 Fixture, 3 each		17.8-108.9
MEDIC	4 Fixture, 3 each		55.5-114.6
RSP	4 Fixture, 3 each	4 Bulbs out	24.9-52.5
HHC Supply Room	24 Fixture, 1 each	1 Bulbs out	4.0-22.1
BN OPS NCOIC	2 Fixture, 2 each		19.2-35.7

According to the IES Lighting Handbook, Volume 1995, working spaces where visual tasks are conducted should have a range of illumination between 20- 50 FC. Illumination in areas where visits are temporary should range from 5- 10 FC.

8. Discussions.

Main Building

a) Efflorescence was seen in numerous amounts in the Indoor Firing Range in the basement. Efflorescence occurs when water soluble salt minerals seep from cement. Water moving through the material to carry the salts to the surface. The water evaporates and leaves the white powder behind.
b) Due to the leaks in the building mold is apparent on the walls in the facility. Until the roof is repaired mold will continue to reappear on the walls. Also the holes in the roof are contributing to the damages to the ceiling tile.
c) Sewage backed up into the latrines. While surveying the area workers were diligently trying to fix the issue.
d) Mold was found on the air conditioning units that were checked. Soldiers stated mold is growing in all air conditioning units.
e) Rooms that are normally used as storage are being used to house various soldier activities. These rooms do not have ventilation.

f) The boiler room has rusty pipes, due to the high humidity in the room. The pipeline insulation throughout the facility has obvious water damage.
g) Soldiers stated the water fountain leaked when plugged in because of this it is not currently in use.
h) Light fixtures should be fixed and bulbs replaced to illuminate the facility better. Continue with the plan to fix lights in the drill hall when scissor lift arrives.
i) Material Safety Data Sheets (MSDS) were in binders with chemical inventory list. MSDS should be located near hazardous material.

FMS Building Temporary Building

a) Mold was found in the latrine.
b) Mold growing on the walls because of water damage.
c) Ceiling tiles has apparent water damage.
d) Water was not readily available throughout the FMS facility other than the latrine.
e) Exhaust fan need to be clean.
f) Exposed pipes were found in the facility.
g) Eyewash stations need to be replaced. Shower station was not present.
h) One fire extinguisher was present but had not been checked since 2008.
i) Flammable cabinets were not organize and did not have appropriate labeling to inform other what it is housing.
j) Safety signs were seen posted on the wall in the facility.

9. Recommendations.

Main Building

a) Repair all leaks in the roof and replace all ceiling tiles that have obvious watermarks. Replace all missing ceiling tiles.
b) Place a sign on the outside of the Indoor Firing Range door indicating the presence of lead. Do not take anything out or into the range. All items inside must be either cleaned of lead or disposed according NG PAM 420-15, before removal.
c) Mold in the air conditioning units and on the walls should be removed IAW TG 277 & TG 278.
d) Replace all pipeline insulation that has water damage and those exposing pipe.
e) Storage Rooms that do not have ventilation are being used to house various soldier activities. Find other rooms for these soldiers to work in.
f) Replace all burned out and missing light fixtures and covers.
g) Make duplicate MSDS binders and place in areas hazardous chemicals are stored.

NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE COLLEGE PARK, GA 30349

FMS Building Temporary Building

a) Remove mold in building IAW TG 277 & TG 278.
b) Repair leaks in the roof and then replace all water stained ceiling tiles.
c) Clean all exhaust fans in building.
d) Insulate all exposed pipes in building.
e) Eyewash station should be replaced with a more efficient station. Also a shower station should be present in the facility.
f) There should be multiple fire extinguishers in the facility and they should be inspected regularly.
g) Flammable cabinets should be organized and signs and labels should be posted.

10. If additional information is needed in regards to the above report, please contact SSG Non-Responsive Industrial Hygiene Technician, at (404) 242-3418 or Non-Responsive Regional Industrial Hygienist, NGB-CSG-P, COMMERICAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

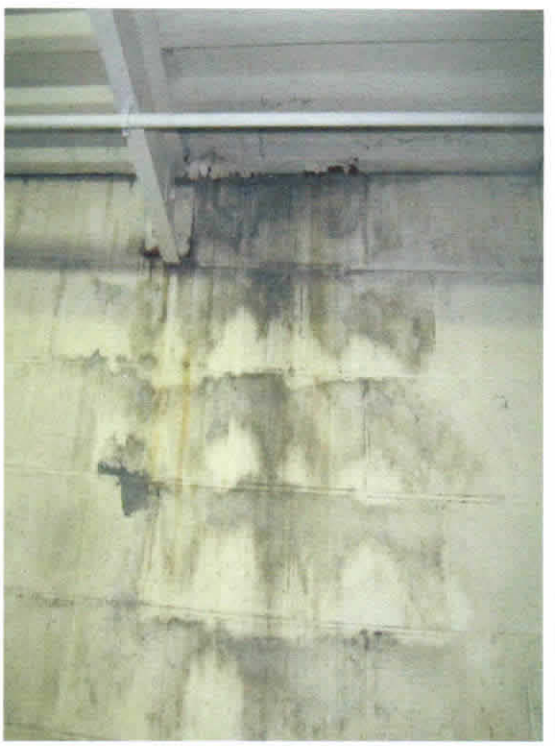
CF: State Safety Office, GA, ATTN: LTC Non-Responsive Safety and Occupational Health Manager, 1388 1st Street, Building 840, Dobbins ARB, GA 30069.

Georgia Department of Defense, ATTN: MAJ. Non-Responsive State Construction and Facility Manager, Building 70, 1000 Halsey Ave, Marietta, GA 30062.

1SG Non-Responsive Shop Supervisor, Downtown (Temporary) Field Maintenance Shop, 95 Maynard St. Winder, GA 30680.

NATIONAL GUARD BUREAU
REGIONAL INDUSTRIAL HYGIENE OFFICE
AIRPORT PLAZA SUITE 1530
510 PLAZA DRIVE COLLEGE PARK, GA 30349

Main Building



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FMS Building

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REGIONAL INDUSTRIAL HYGIENE OFFICE
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510 PLAZA DRIVE COLLEGE PARK, GA 30349

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report

AES

NVLAP Lab ID# 102082-0

24-Feb-12

Client Name: **National Guard Bureau Region-South IH**

Project Name: **HHC - 1-121**

AES Job Number: **1202G66**

Project Number: **HHC**

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
MN 082 HHC 1-121 Layer: 1	1202G66-001A		ND	ND	ND	ND	ND	ND	Paint included as binder
MN 086 HHC 1-121 Layer: 1	1202G66-002A		ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophylite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to determine the conclusive asbestos content.

It is certified by the signatures below that the laboratory identified is accredited by the National Institute of Standards and Technology for Polarized Light Microscopy (PLM) analysis under the EPA Interim Asbestos Bulk Sample Quality Assurance Program, Laboratory ID 102082-0. All percentages given are by visually estimated volume. All analyses are performed in accordance with the EPA "Method for the Determination of Asbestos in Bulk Building Materials. EPA/600/R-93/116, July 1993." This report must not be reproduced except in full without the approval of Analytical Environmental Service, Inc. These test results apply only to the samples actually tested.

Microanalyst: Non-Responsive [redacted]

QC Analyst: Non-Responsive [redacted]

Analytical Environmental Services, Inc

Date: 24-Feb-12

Lab Order:	1202G75
Client:	National Guard Bureau Region-South IH
Project:	HHC 1-121
Matrix:	Wipe
Date Received:	2/20/2012 10:10:00 AM

LEAD ON WIPES (N9100/7082)

N7082

Laboratory ID	Client Sample ID	Result	Units	Reporting Limit	DF	Qual	Date Collected	Date Analyzed	Analyst
1202G75-001A	MN 080 HHC 1-121	BRL	ug, Total	20	1		02/16/2012	02/22/2012	BB
1202G75-002A	MN 081 HHC 1-121	BRL	ug, Total	20	1		02/16/2012	02/22/2012	BB
1202G75-003A	MN 083 HHC 1-121	BRL	ug, Total	20	1		02/16/2012	02/22/2012	BB
1202G75-004A	MN 084 HHC 1-121	12200	ug, Total	369	18.44		02/16/2012	02/22/2012	BB
1202G75-005A	MN 085 HHC 1-121	225	ug, Total	20	1		02/16/2012	02/22/2012	BB
1202G75-006A	MN 087 HHC 1-121	BRL	ug, Total	20	1		02/16/2012	02/22/2012	BB
1202G75-007A	MN 088 HHC 1-121	43	ug, Total	20	1		02/16/2012	02/22/2012	BB
1202G75-008A	MN 089 HHC 1-121	BRL	ug, Total	20	1		02/16/2012	02/22/2012	BB

Qualifiers: BRL - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

Results are blank corrected where applicable

NATIONAL GUARD REGION SOUTH
INDUSTRIAL HYGIENE OFFICE
510 PLAZA DRIVE, SUITE 1530
COLLEGE PARK, GA 30349

NGB-AVN-SI 17 March 2003

MEMORANDUM FOR THE: Georgia Army National Guard, ATTN: MAJ Non-Responsive Non-Responsive Armory Supervisor, 1st Battalion (Mech) 121st Infantry, 95 Lee and Maynard, Winder, Georgia 30680.

SUBJECT: Industrial Hygiene Service Contract for the Georgia Army National Guard, to look at the Winder National Guard Armory.

1. References.

a. Report dated 25 January 2003, Industrial Hygiene Survey, Non-Responsive

b. OSHA Standards 29 CFR (Code of Federal Regulations), General Industry, revised 1996 rev.

c. AR 40-5, Preventive Medicine, 15 October 1990.

d. AR 11-34, 15 February 1990, The Army Respiratory Protection Program.

e. AR 385-10, 23 May 1988, Army Safety Program.

f. Department of the Army Pamphlet (DA PAM) 40-501, 27 August 1991, Hearing Conservation.

g. TB MED 503, The Army Industrial Hygiene Program.

h. Title 29 Code of Federal regulation (CFR), 1989 rev, Part 1910.94 (c) (6) Table G-10, Ventilation.

i. Industrial Ventilation, 22nd, 1995, American Conference of Governmental Industrial Hygienist, Cincinnati, Ohio.

j. IES Lighting Handbook, Application Volume, 1981, Illumination Engineering Society of North America.

2. General.

a. At the request of MS. Non-Responsive of the Georgia State Safety and Occupational Health Office, an Industrial Hygiene Service Contract was put together to conduct an Industrial Hygiene survey at the Winder Armory in Winder, GA.

b. Dr. Non-Responsive conducted the survey.

3. Findings. All HHIM field survey forms and survey findings of the report are enclosed. (See ENCL. 1)

4. Recommendations.

a. Follow all recommendations made in reference 1. a. requesting industrial hygiene (IH) services where needed to complete the recommendations.

b. **Close this deactivated Indoor firing range until properly decontaminated. Clean the lead hot spots (see sample results) in the Indoor Firing Range following NG PAM's 385-15 and 385-16. Keep in mind that EPA and your state may have lead reduction levels lower than the levels recommend in the 385-15 and 385-16. Clean any and all items stored in the range before removing them.**

c. Request the Facility Maintenance Office (FMO) repair leaks and replace all water damaged items in the Armory. Ignoring this problem could lead to Indoor Air Quality and mold problems.

d. Understand that the bulk sample taken from the distribution (copier) room ceiling junction of the old and new building did not contain Asbestos.

e. Use the report to help in correcting all deficiencies noted by the contractor.

f. Request follow-up sampling to be conducted as soon as possible once IFR has been decontaminated. Also consider additional Industrial Hygiene services to monitor operations that were not looked at or surveyed during the contract visit, especially if this will help eliminate health hazards and reduce medical surveillance cost.

g. Contact the Occupational Health Nurse, Ms. Patricia Ferguson, for any medical Surveillance that may be needed.

h. To execute your responsibilities in correcting all deficiencies, coordinate with the FMO the Occupational Health Nurse and the Occupational Safety and Health Office for technical guidance.

5. If additional information is needed about the contractors report, please contact Non-Responsive Regional Industrial Hygienist, ARNG-IHS, 1-800-362-0262 OR COMMERCIAL (404) 559-4174.

Non-Responsive

Regional Industrial Hygienist

CF: NBG-AVN-SH

CF: State Safety Office, GA, ATTN: Mrs. Non-Responsive Occupational Health Manager, 5019 Highway 42, Ellenwood, GA 30294.

CF: State Safety Office, GA, ATTN: Safety and Occupational Health Manager, P.O. 5019 Highway 42, Ellenwood, GA 30294.

Non-Responsive
583 GINGER CAKE RD
FAYETTTEVILLE, GA 30214
(770) 461-2684

January 25, 2003

Maj Non-Responsive
GA Army National Guard Armory
95 Lee & Maynard
Winder, GA 30680

RE: Baseline Industrial Hygiene Survey

FINAL REPORT

FOR

BASELINE INDUSTRIAL HYGIENE SURVEY

GEORGIA ARMY NATIONAL GUARD

WINDER ARMORY

WINDER, GA

DATE:

DECEMBER 20,2002

PREPARED BY

Non-Responsive
583 GINGER CAKE RD
FAYETTEVILLE, GA 30214
(770) 461-2684

CONTENTS

1.0 INTRODUCTION

At the request of the National Guard Bureau South Region Industrial Hygiene Office, Non-Responsive performed a Baseline Industrial Hygiene Survey at the GA ARNG Winder Armory. The purpose of the survey was to perform a baseline survey to evaluate health hazards, controls present in the work site, collect lead swipe samples from renovated/inactive or closed Indoor Firing Ranges and perform, illumination survey. And to make recommendations regarding health hazards associated with the work at the Winder Armory.

The building was finished in 1955. The facility houses the 1st Battalion (Mech) 121st Infantry. The armory is used by the troops of the 1st Battalion (Mech) 121st Infantry for their monthly weekend drills.

The 1st Battalion (Mech) 121st Infantry with about 230 troops has 11 full time AGR personnel at the time of the survey. The AGR employees are assigned to perform administrative duties Tuesday-Friday 7:00am-5: 30pm. The facility houses administrative areas, a Drill Hall, a Classroom, a Supply Room, a Weapons Vault, a kitchen, and a deactivated Indoor Firing Range that was converted to a computerized (simulating) range. A schematic drawing of the facility can be found in Attachment 5.

The facility was visually examined and personnel consulted to assess potential hazards present. Employees are concerned that roof leaks in various in various offices throughout the building be a health hazard due to mold formation. Employees reported roof leaks in the Supply Room, Training NCO Office, weight room and the Commanders Office (weekend drill use). In this office, the floor floods every time it rains. The day of the survey, there was water on the floor, which squeezed out as you step on the floor. Health Hazard Information Modules were completed. Illumination survey was performed throughout the facility.

2.0 INSTRUMENTATION/CALIBRATION

The following instrumentation was used to obtain air sampling data and ventilation measurements. All instrumentation was calibrated before and after sampling and all instrumentation was operated according to the manufacturer's recommendations:

- Sper Scientific Light Meter

3.0 FINDINGS

Illumination

Illumination levels were recorded in administration offices, conference room, drill hall, and supply room. Light measurements were below IES guidelines at the Operations NCO office (46 FC) and the Distribution Room Office. The other areas tested were within IES minimum standards. See Light Readings Table at the end of this section.

Administration

Personnel perform administrative duties that consist of reading, handling and generating paper work. Computer use comprises a large portion of the working day, two to six hours per day. This continuous use of computers can, in the long run, lead to eye strain and hand/wrist or shoulder soreness. Some of the personnel reported they have experienced either eye strain or shoulder soreness from the use of computers for long periods of time. (See HHIM forms in attachment 1).

Motor Pool

The motor pool is located in a fenced area in the rear of the building. The motor pool includes 2.5T trucks, 5T trucks, 10 T trucks, BFV (1), and mortar trac. Vehicle. PMCS performed at the armory. No repair services are performed on these vehicles at the armory. When repairs are needed, vehicles are taken to the OMS #8 to perform the repairs to the armory vehicles.

Drill Hall

The Drill Hall is located in the center of the building. It is used for formation and training during weekend drills. The Drill Hall is used to clean weapons about two times a year. Bay door is kept open and the exhaust ventilation fan at roof close to bay door is turned on when the weapons are cleaned. The troops are divided in smaller groups of about 30 or 40 people at a time. The Drill Hall is also used for High School events and community functions.

Boiler Room

The Boiler Room was renovated when the building was enlarged in 1993. The present boiler is an all metal one. Personnel said that the wrapping was replaced with fiberglass.

Deactivated Indoor Firing Range

A deactivated Indoor Firing Range (IFR) was been converted into a computerized (simulating) range. This room has been designated as an emergency storm shelter. So far only tornado drills have been done. Personnel stated that it was deactivated in 1998 Six There were many rectangular size open containers in front of the backstop (floor) filled with lead pieces (See pictures). Six samples were taken from the IFR. Five of the six samples were above the clearance level of 200ug/ft2. See table 1 for results.

Table 1

Sample Number	Sample Location	Results
81	Bullet backstop	1020000ug
82	Floor in front of backstop	119000ug
83	Item 1, floor midway up	6270ug
84	Item 2 stored metal rail	5540ug
85	Wall floor next to exit door	599ug
86	Blank	BLR

Weapons Vaults

The Winder Armory has a weapon storage vault located in the Supply Room. The weapons list includes M-16s, 9mm pistols, 240 Bravos, and MK19.The dehumidifier is turned on at all times Personnel stated that accountability and issuing of weapons are performed in this area. Weapons are cleaned in the Drill Hall as described on the Drill Hall section. Night vision equipment kept in vault.

A/C System

Central A/C units are used to cool and heat administrative offices and conference room. It is a new system that was installed about 7 or 8 years ago. It is a water-chilled system, which also is used for heating. It uses the radiator grills that are at

the walls, close to the floor. Six swipe samples for Lead (Table 2) were collected from the supply air grills in the offices occupied by full time members of the Army National Guard. One of the samples was above the clearance level of 200ug/ft2.

Table 2

Sample Number	Sample Location	Results
71	Readiness NCO Office	87ug
72	Conference Room	3610ug
73	Operations Office (SFC Andrews side)	50ug
74	Operations Office (Sgt. Westrip side)	27ug
75	Battalion Personnel Office	77ug
76	Blank	BLR

Roof Water Leak

Employees are concerned that roof leaks in various in various offices throughout the building be a health hazard due to mold formation. Employees reported roof leaks in the Supply Room, Training NCO Office, weight room and the Commanders Office (weekend drill use). In this office, the floor floods every time it rains. The day of the survey, there was water on the floor, which squeezed out as you step on the floor. The roof leaks is a problem that needs to be addressed.

Material Safety Data Sheets

The armory has two MSDS books. One is located in Readiness NCO Office and the other at the shop. MSDS forms are added to the book when new products arrive. There is a Flammable cabinet with a Hazardous Materials Inventory List kept at the door of the cabinet. Updated about a year ago. SFC [redacted] attended Hazardous Materials training on Feb. 2001.

Light Readings

Light measurements were taken in various locations throughout the facility. The results were compared to guidelines recommended by the Illuminating Engineering Society (IES). The results of the survey are shown in Table 3

Table 3

Location	Light Reading (footcandles)	IES Recommendation (footcandles)
ADO Readiness NCO Office	58-80 (Avg. 70)	50-100
ADO Operations Office (SFC [redacted] Non-Responsive	32-78 (Avg. 50)	50-100
ADO Operations Office (SFC [redacted]	46-84 (Avg. 63)	50-100
ADO Operations Office(SFC [redacted]	46 67 (Avg. 60)	50-100
ADO Training NCO Office	62 78 (Avg. 69	50-100
Conference Room	72-98 (Avg. 85)	50-100
ADO Operations NCO Office	30-57 (Avg. 46)	50-100
HHC Orderly Room	58-110 (Avg. 76)	50-100
ADO Maintenance Office	144-185 (Avg. 164)	50-100
Distribution Room Office	14-33.(Avg. 22)	50-100
ADO Supply Room (Office)	45-53 (Avg. 49)	50-100
ADO Supply Room (Storage)	13-28 (Avg. 21)	20
Drill Hall	53-233 (Avg. 120)	30

Light measurements were below IES guidelines at the Operations NCO office (46 FC) and the Distribution Room Office. Consideration should be given to provide supplemental lighting in those areas that were below the recommended standard. ANSI RP7-1991.

4.REFERENCES

- Guide to Occupational Exposure 2000, American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, Ohio.
- American National Standards Institute (ANSI), /Illuminating Engineering Society (IES), Industrial Lighting 1991.

- National Institute for Occupational Safety and Health (NIOSH), (76-130) Technical Information, Lead Exposure and Design Considerations for Indoor Firing Ranges GPO, 1975.
- Title 29, Code of Federal Regulations (CFR). 1999, revision, Part 1910. Occupational Safety and Health Standards
- AR 40-5, Preventative Medicine, 15 October 1990.
- AR 385-10, The Army Safety Program, 23 May 1988.
- National Safety Council, Fundamentals of Industrial Hygiene, 4th edition, 1996.
- AR 385-16, National Guard Pamphlet, Safety Guidelines for Converting Indoor Firing Ranges to Other uses.
- TB MED 503, The Army Industrial Hygiene Program, February 1985.
- Department of the Army Pamphlet (DA PAM) 40-501,27 August 1991, Hearing Conservation.
- Title 29 CFR, Part 1910.1200, The Hazard Communication Standard.

RECOMMENDATIONS

- Provide supplemental lighting in those areas that were below the recommended standard as represented in Table 3.

- Recommend that when using computers for extended periods of time, personnel should take occasional breaks and change position to minimize the possibility of eyes and/or hands/wrist injury.

- Continue to ensure that weapon maintenance and cleaning is done in a well-ventilated area. Continue to practice good personal hygiene by washing hands after handling and cleaning weapons and ammunition.

- Recommend that the roof should be repaired as soon as possible to stop water leaks at offices and prevent flooding of floors and the formation of mold.

- The MSDS book should be updated periodically. Ensure that personnel have knowledge of the location of the MSDS book, and is enrolled hazardous materials safety training.

- That the state Occupational Safety and Health office review the lead swipe clearance sample results of this facility to determine if the IFR will need further decontamination. This room should not be used until all lead is removed and the area sanitized.

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.

(For use of this form, see HHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ______ b. INSTALLATION Winder GA Armory c. BLDG/RM NUMBER Operation Center

d. LOCATION/CODE AA e. OPERATION/CODE 1ADO f. DESCRIPTION

Maintenance NCO Maint. training + planning, Assist in S-4 activities Equipment logistic, Ground maint. Computer work 3 hrs/day

g. MACOM/CODE NG h. SUBMACOM/CODE ______ i. SUPERVISOR Maj [redacted]

j. TELEPHONE/AUTOVON NUMBER 770 867, 2239 k. RAC ______ l. FREQUENCY (Hrs Per Day) ______

m. NO CIV(S) ______ n. NO MIL ______ o. NO CONTRACTOR(S) ______ p. NO LOC(S) ______ q. NO OTHER ______

SECTION 2. IH STAFFING DATA

a. LAB HOODS — b. VAPOR DEGREASERS — c. MAINTENANCE BAYS — d. SPRAY BOOTHS —

e. OPEN SURFACE TANKS — f. VENTILATION UNITS —

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-20-07 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	32-78/Avg 50	FC	50-100	Adgt

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
¼ FACE AIR PURIFYING			/
½ FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING	M-40 M-42		/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCTIVE SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PØ VDT	Daily use of computers for long periods of time	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	f. CATEGORY
SFC	Non-Responsive	W		Non-Responsive	

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Maintenance NCO - Maint. Training + planning
② Computer work about 3 hr/day
③ Coordinate the movement of equipment, organizing & preparing for coming events
④ No health problems related to job

* PRIVACY ACT STATEMENT

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Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical surveillance.

Signature

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see HHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ____ b. INSTALLATION Winder GA Armory / BLDG/RM NUMBER Operations Center

d. LOCATION/CODE AA / e. OPERATION CODE ADC / f. DESCRIPTION ____

BHLN Master Gunner, Computer work 2 hrs/day. Blank ammo training, Armed Commander re Training. Resourcing.

g. MACOM/CODE NG / h. SUBMACOM/CODE ____ / i. SUPERVISOR [redacted] Non-Responsive

j. TELEPHONE/AUTOVON NUMBER 770 867 2239 k. RAC ____ l. FREQUENCY (Hrs Per Day) ____

m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS ____ b. VAPOR DEGREASERS ____ c. MAINTENANCE BAYS ____ d. SPRAY BOOTHS ____

e. OPEN SURFACE TANKS ____ f. VENTILATION UNITS ____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-20-07 b. EVALUATOR INITIALS [redacted] Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	96-84 Avg 63	FC	50-100	Adeq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
½ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
00DT	Daily use of computer for long periods of time	3	
16LIFTING	Heavy lifting	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	f. CATEGORY
Non-Responsive		W	M	Non-Responsive	1 CIR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① BN Master Gunner
② No health problems related to job
③ Roof leaks - create mold - worried of health hazard that it may cause
④ Heavy lifting - weapon system.

PRIVACY ACT STATEMENT

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Signature

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see FIHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Winder G Armory c. BLDG/RM NUMBER Supply Room

d. LOCATION/CODE SA e. OPERATION/CODE SAH f. DESCRIPTION _____

Supply + Managed property, storing, Computer work

g. MACOM/CODE NG h. SUBMACOM/CODE _____ i. SUPERVISOR Maj Non-Responsive

j. TELEPHUNE/AUTOVON NUMBER 770 867, 2239 k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-20-07 b. EVALUATOR (INITIAL Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting office	45-53 - dog 49	FC	50 - 100	Minimally Adeq
Supply-Storage	13-28, dog 21	FC	20	Adeq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
½ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
DUST	Daily use & exposure for long periods of time	3	
LIFTING	Heavy lifting	3	
NOISE	Vehicle noise	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	f. CATEGORY
SSG Non-Responsive		A	M	Non-Responsive	

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

1. Supply -
2. Computer work about 3 hrs/day
3. No health problems associated w/ job
4. Heavy lifting - Use cart, help.
5. Lots of driving in truck to Ft Stewart for training + Transporting of equipment. about 4 times/yr.

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Signature

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see AFIOH User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ____ b. INSTALLATION Winder GA Armory c. BLDG/RM NUMBER Readiness NCO office

d. LOCATION/CODE AA / e. OPERATION/CODE ADO / f. DESCRIPTION ____

Readiness NCO, Facility Mgt, Safety NCO

g. MACOM/CODE ANG / h. SUBMACOM/CODE ____ / i. SUPERVISOR Maj Non-Responsive

j. TELEPHONE/AUTOVON NUMBER 770 867 2239 k. RAC ____ l. FREQUENCY (Hrs Per Day) ____

m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS ____ b. VAPOR DEGREASERS ____ c. MAINTENANCE BAYS ____ d. SPRAY BOOTHS ____

e. OPEN SURFACE TANKS ____ f. VENTILATION UNITS ____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-20-07 b. EVALUATOR (INITIAL) Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	50-80 Avg 70	FC	50-100	Adq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
½ FACE AIR PURIFYING			/
½ FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
10 VDT	Daily use of computer for long periods of time	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

SFC

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
Non-Responsive		D	M	Non-Responsive	AGR

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Reading NCO
② Computer work about 6 hrs/day
③ No health problems related to job & computer work so far
④ H2O Leakage - Building
⑤ Fans in Latrine do not work - No Ventilation

PRIVACY ACT STATEMENT

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Signature

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see HHIM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ____ b. INSTALLATION Winder GA Armory c. BLDG/RM NUMBER Operations Center

d. LOCATION/CODE ____ e. OPERATION/CODE ____ f. DESCRIPTION

BTN S-4, Logistics - Supplies - Battalion Logistics NCO

g. MACOM/CODE NG / h. SUBMACOM/CODE ____ / i. SUPERVISOR Maj [redacted]

j. TELEPHONE/AUTOVON NUMBER 770 867 8617 k. RAC ____ l. FREQUENCY (Hrs Per Day) ____

m. NO CIV(S) ____ n. NO MIL ____ o. NO CONTRACTOR(S) ____ p. NO LOC(S) ____ q. NO OTHER ____

SECTION 2. IH STAFFING DATA

a. LAB HOODS ____ b. VAPOR DEGREASERS ____ c. MAINTENANCE BAYS ____ d. SPRAY BOOTHS ____

e. OPEN SURFACE TANKS ____ f. VENTILATION UNITS ____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-20-02 b. EVALUATOR (INITIALS) [redacted]

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	46-67, Avg 60	FC	50-100	Adq't

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
½ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PC VDT	Daily use of computers for long periods of time	3	
POLIFTING	Heavy Lifting	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	f. CATEGORY
Non-Responsive		O	M	Non-Responsive	

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

1. Battalion Logistics NCO
2. Computer work - about 6 hrs/day
3. When use comp. for long periods - Headaches occasionally.
4. No health problems
5. Occasional heavy lifting - Weapons.

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Signature

HEALTH HAZARD INFORMATION MODULE FIELD SURVEY

*SEE PRIVACY ACT STATEMENT ON REVERSE.
(For use of this form, see IHHM User's Instructions.)

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC _____ b. INSTALLATION Winder Golf Armory c. BLDG/RM NUMBER Training NCO Office

d. LOCATION/CODE AA e. OPERATION/CODE ADG f. DESCRIPTION _____

Orders, Scheduling school (Troops), help training schedules

g. MACOM/CODE NG h. SUBMACOM/CODE _____ i. SUPERVISOR Maj [redacted] Non-Responsive

j. TELEPHONE/AUTOVON NUMBER 770 867, 2239 k. RAC _____ l. FREQUENCY (Hrs Per Day) _____

m. NO CIV(S) _____ n. NO MIL _____ o. NO CONTRACTOR(S) _____ p. NO LOC(S) _____ q. NO OTHER _____

SECTION 2. IH STAFFING DATA

a. LAB HOODS _____ b. VAPOR DEGREASERS _____ c. MAINTENANCE BAYS _____ d. SPRAY BOOTHS _____

e. OPEN SURFACE TANKS _____ f. VENTILATION UNITS _____

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-20-07 b. EVALUATOR (INITIAL [redacted] Non-Responsive

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting	62-78 (Aug 69	Fc	50-100	Adq

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

j. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			
½ FACE AIR PURIFYING			
½ FACE AIR PURIFYING			
FULL FACE AIR PURIFYING			
POWERED AIR PURIFYING			
AIRLINE			
SELF-CONTAINED			
ABRASIVE BLASTING HOOD			

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID		CHEMICAL/SPLASH		MUFFS		APRONS		HARD HATS	
OIL		SAFETY/IMPACT		EARPLUGS		COVERALLS		IMPERMEABLE BOOTS	
SOLVENTS		CHEMICAL/SAFETY		CANAL CAPS		FULL BODY SUIT		SAFETY CONDUCTIVE SHOES	
HOT SURFACES		FULL FACE SHIELD		HELMETS		SAFETY BELT/ HARNESS		SAFETY/NONCONDUCTIVE SHOES	
COLD SURFACES		WELDING HELMET				HEAT REFLECT VEST/SUIT			
NBC AGENTS									

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED (YES or NO)
PQ VDT	Eye Strain-Daily use of computer long time	3	

SECTION 5. SAMPLING DATA

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. PERSONNEL DATA

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
Non-Responsive			M	Non-Responsive	AGR

SSG

SECTION 7. COMMENTS (Add blank sheet of paper if necessary)

① Training NCO
② Computer work - about 4 hrs/day
③ When in computer work - Take breaks every 2 45 minutes
④ No health problems associated with job
⑤ Roof leaks in this office, ceiling tiles are stained. Water runs down the walls.

* PRIVACY ACT STATEMENT

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Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

SECTION 1. DEMOGRAPHIC DATA

a. ARLOC ______ b. INSTALLATION Winder GA Armory c. BLDG/RM NUMBER S-1 Office

d. LOCATION/CODE Retention (Employee retention), e. OPERATION/CODE Manage Employee retention within the Battalion. f. DESCRIPTION ______

g. MACOM/CODE NG / ______ h. SUBMACOM/CODE / ______ i. SUPERVISOR Maj [redacted]

j. TELEPHONE/AUTOVON NUMBER 770 867, 8336 k. RAC ______ l. FREQUENCY (Hrs Per Day) ______

m. NO CIV(S) ______ n. NO MIL ______ o. NO CONTRACTOR(S) ______ p. NO LOC(S) ______ q. NO OTHER ______

SECTION 2. IH STAFFING DATA

a. LAB HOODS ______ b. VAPOR DEGREASERS ______ c. MAINTENANCE BAYS ______ d. SPRAY BOOTHS ______

e. OPEN SURFACE TANKS ______ f. VENTILATION UNITS ______

SECTION 3. SURVEY DATA

a. SURVEY DATE 12-20-02 b. EVALUATOR (INITIALS) ______

c. CONTROLS PRESENT	d. EVALUATION	e. UNIT CODE	f. CONTROLS REQUIRED	g. STATUS
Lighting				

h. PERSONAL PROTECTIVE EQUIPMENT (R=REQUIRED; A=AVAILABLE)

1. RESPIRATOR	MANUFACTURER	NIOSH TC NO	R/A
DISPOSABLE			/
¼ FACE AIR PURIFYING			/
½ FACE AIR PURIFYING			/
FULL FACE AIR PURIFYING			/
POWERED AIR PURIFYING			/
AIRLINE			/
SELF-CONTAINED			/
ABRASIVE BLASTING HOOD			/

2. GLOVES	R/A	3. EYES/FACE	R/A	4. HEARING	R/A	5. BODY	R/A	6. HEAD/FOOT	R/A
ACID	/	CHEMICAL/SPLASH	/	MUFFS	/	APRONS	/	HARD HATS	
OIL	/	SAFETY/IMPACT	/	EARPLUGS	/	COVERALLS	/	IMPERMEABLE BOOTS	
SOLVENTS	/	CHEMICAL/SAFETY	/	CANAL CAPS	/	FULL BODY SUIT	/	SAFETY CONDUCT SHOES	
HOT SURFACES	/	FULL FACE SHIELD	/	HELMETS	/	SAFETY BELT/ HARNESS	/	SAFETY/NONCONDUCTIVE SHOES	/
COLD SURFACES	/	WELDING HELMET	/			HEAT REFLECT VEST/SUIT	/		
NBC AGENTS	/								

SECTION 4. HAZARD INVENTORY DATA

a. CAS CODE	b. HAZARD DESCRIPTION	c. PAC or EPC	d. MEDICAL SURVEILLANCE RECOMMENDED YES or NO
PO VDT	Daily use of computers for long periods of time	3	

SECTION 5. **SAMPLING DATA**

a. HAZARD	b. SAMPLE TYPE	c. RESULTS	d. REMARKS

SECTION 6. **PERSONNEL DATA**

a. LAST NAME	b. FIRST NAME	c. MI	d. SEX	e. SSN	d. CATEGORY
E-4 Non-Responsive			M		

SECTION 7. **COMMENTS** (Add blank sheet of paper if necessary)

① Retention, Manages Employee's attention
② Computer work about 7-8 hr/day.
③ OK computer for long periods of time
④ No health problem associated
⑤ when working in computers, to take breaks.
⑥ Water leakage from ceiling on floor — ceiling Tiles missing from water

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Disclosure of your Social Security Number is not mandatory; however, nondisclosure may result in untimely provision of proper medical monitoring.

Signature

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
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Tel: (770) 457-8177
Fax: (770) 457-8188

AES Job Number: **B12545**
Page 1 of 1 Total Samples
Wednesday, January 08, 2003

NVLAP Lab # 102082-0

BULK SAMPLE ANALYSIS

Client Name: Non-Responsive
Project Name: Winder GA Armory
Project Number:
Client Sample ID: 90
AES Lab ID: 118024
Location: Distribution (copier) room ceiling junction of old and new building

Sample Description: Light brown soft fibrous with paint

All percentages given below are visually estimated by volume

ASBESTOS FIBERS	
Chrysotile:	
Amosite:	
Crocidolite:	
Anthophyllite:	
Tremolite:	
Actinolite:	

NON-ASBESTOS FIBERS	
Synthetics:	
Mineral Wool:	
Fiberglass:	
Cellulose:	95
Animal Hair:	
Antigorite:	

NON-FIBROUS MATERIALS	
Vermiculite:	
Biotite:	
Mica:	
Perlite:	
Aggregates:	
Styrofoam:	

OTHERS	
Aluminum:	
Bitumen:	
Resilient Material:	
Glue:	
Binders:	5

COMMENTS: Paint included as binder. No asbestos detected.

It is certified by the signatures below that the laboratory identified is accredited by the National Institute of S tandards and Technology for Polarized Light Microscopy (PLM) analysis under the E PA Interim A sbestos Bulk Sample Quality A ssurance Program, Laboratory 102082- 0.

Microanalyst: Non-Responsive

QCAnalyst: Non-Responsive

All percentages given are by volume visually estimated. A ll analyses are performed in accordan ce with the E PA "Method for the Determination of A sbestos In Bulk Building Materials, E PA/600/R-93/116, July 1993." This report must not be reproduced except in full with the approval of A nalytical E nvironmental S ervices, Inc. These test results apply only to the samples actually tested. The refractive index was determined by using "Rapidly and A ccurately Determining Refractive Indices of A sbestos Fibers by Using Disper sion Staining Method" by S hu-Chun Su, Ph.D.

Analytical Environmental Servs, Inc.

Date: 1/10/03

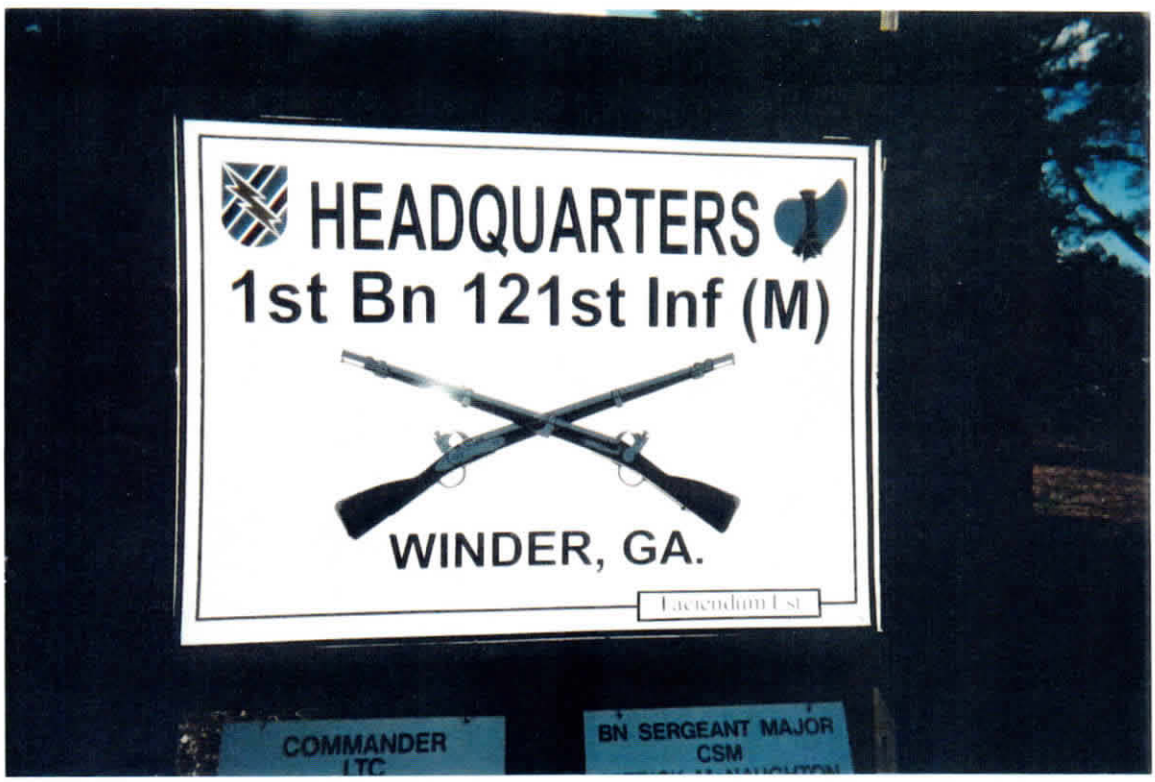
TOTAL LEAD IN WIPE SAMPLES
N7082

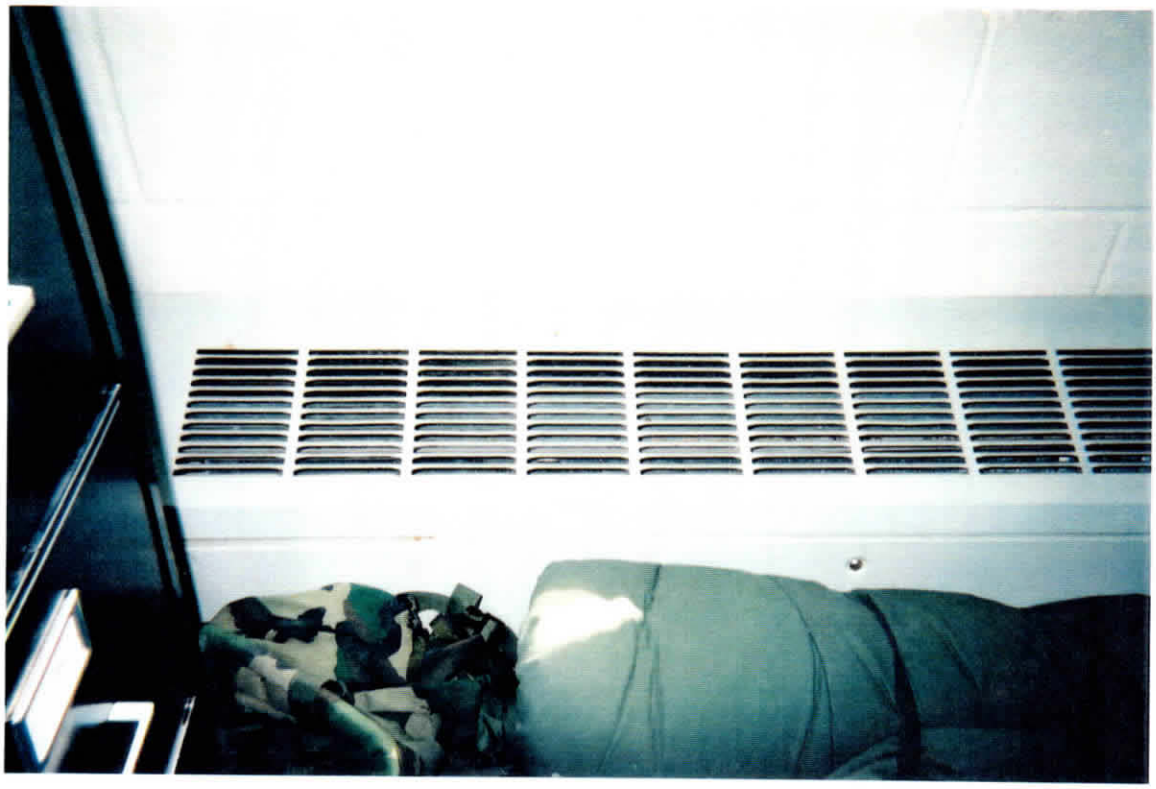
CLIENT:	Non-Responsive	**Lab Order:**	0301094
Project:	Winder GA Armory	**Date Received:**	1/6/03 4:05:00 P
Project No:	Winder GA Arm	**Matrix:**	Wipe
PO No:		**Analyst:**	MM

Laboratory ID	Client Sample ID	Results	Units	MDL	DF	Date Collected	Date Analyzed
0301094-001A	71	87.0	µg, Total	2.83	1	12/20/02	1/7/03
0301094-002A	72	3610	µg, Total	8.15	2.88	12/20/02	1/7/03
0301094-003A	73	50.0	µg, Total	2.83	1	12/20/02	1/7/03
0301094-004A	74	27.0	µg, Total	2.83	1	12/20/02	1/7/03
0301094-005A	75	77.0	µg, Total	2.83	1	12/20/02	1/7/03
0301094-006A	76	BRL	µg, Total	2.83	1	12/20/02	1/7/03
0301094-007A	81	1020000	µg, Total	2780	981	12/20/02	1/7/03
0301094-008A	82	119000	µg, Total	283	100	12/20/02	1/7/03
0301094-009A	83	6270	µg, Total	10.1	3.56	12/20/02	1/7/03
0301094-010A	84	5540	µg, Total	9.76	3.45	12/20/02	1/7/03
0301094-011A	85	599	µg, Total	2.83	1	12/20/02	1/7/03
0301094-012A	86	65.0	µg, Total	2.83	1	12/20/02	1/7/03

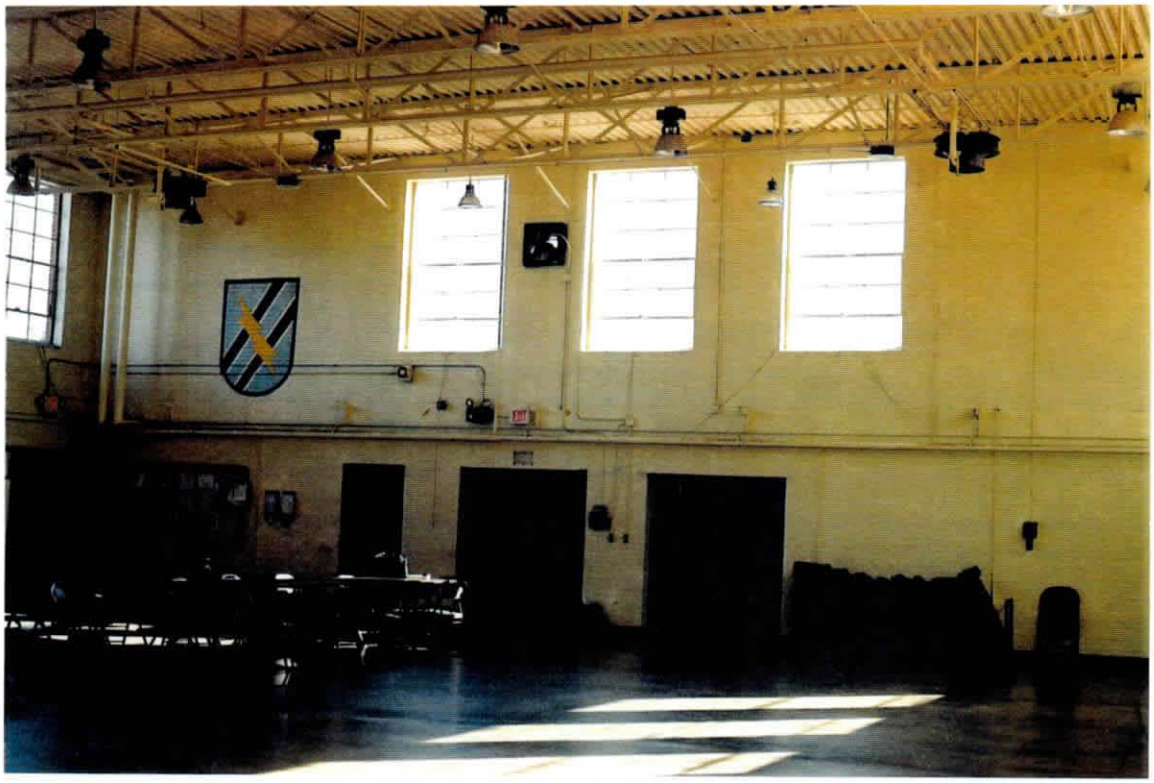
Qualifiers: MDL - Method Detection Limit; DF - Dilution Factor
ND - Not Detected at the Reporting Limit

Winder, GA Armory

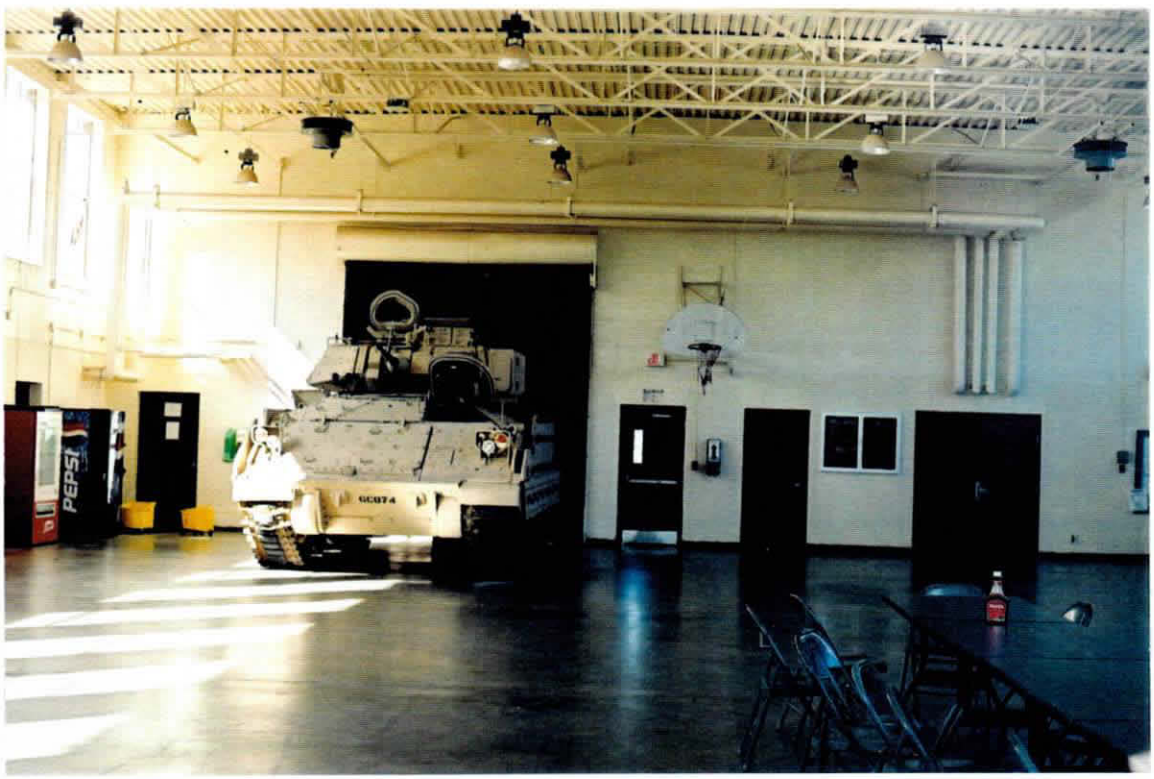


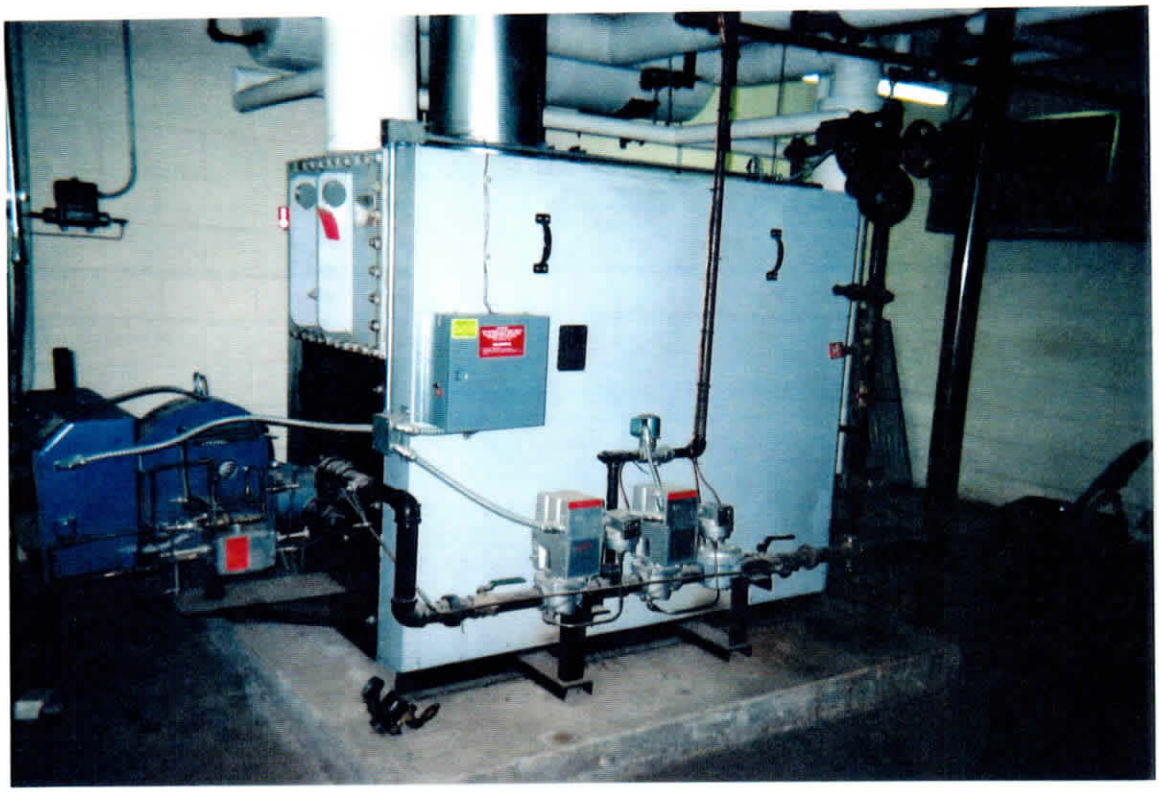


A/C Heating SupplyGrills

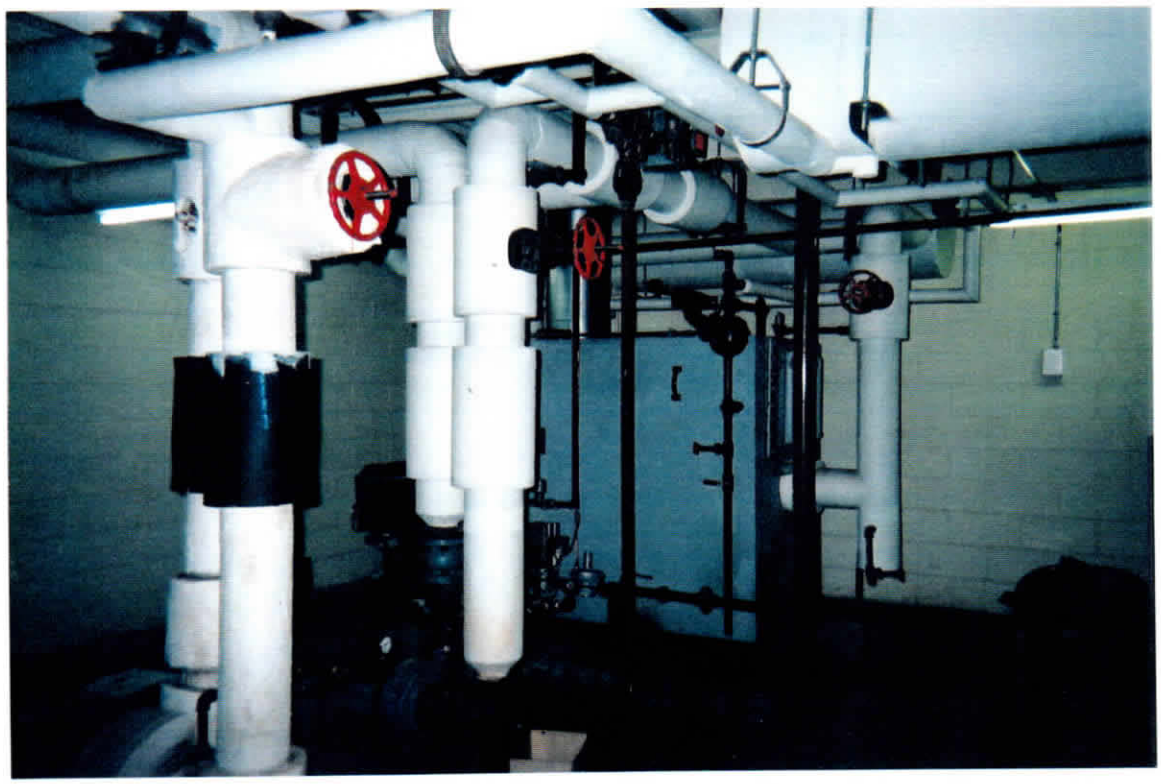


Drill Hall



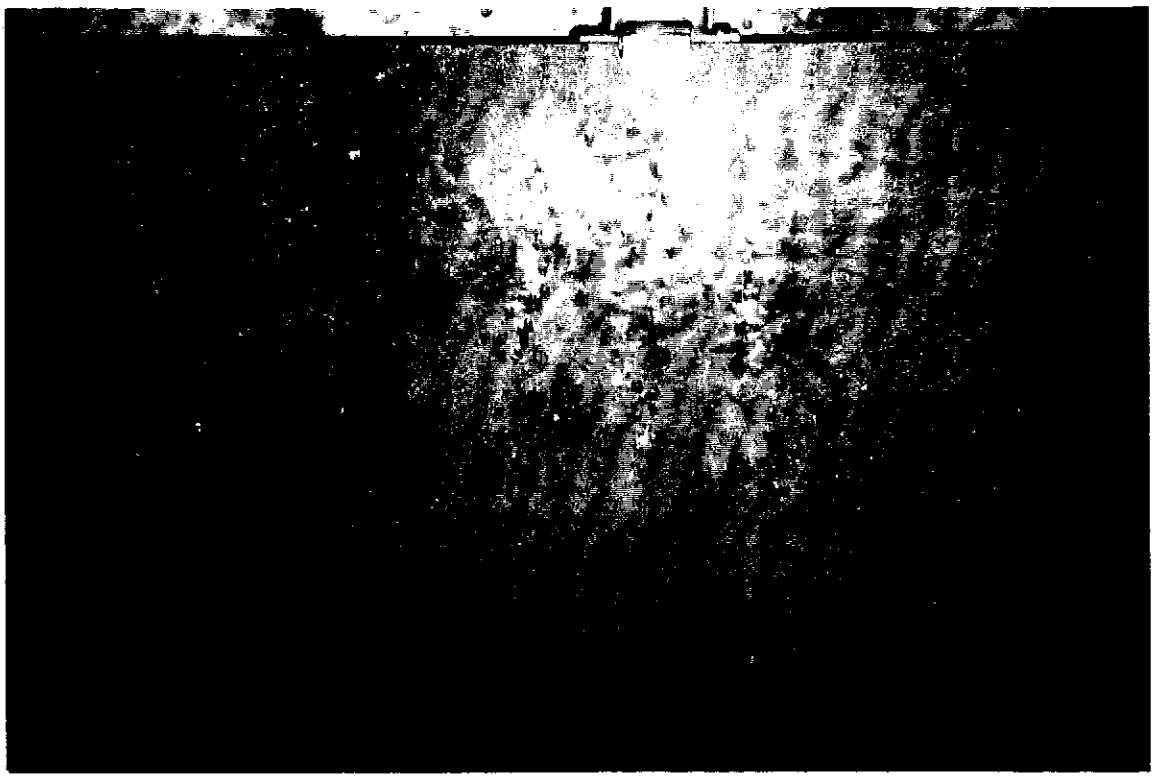


Boiler Room

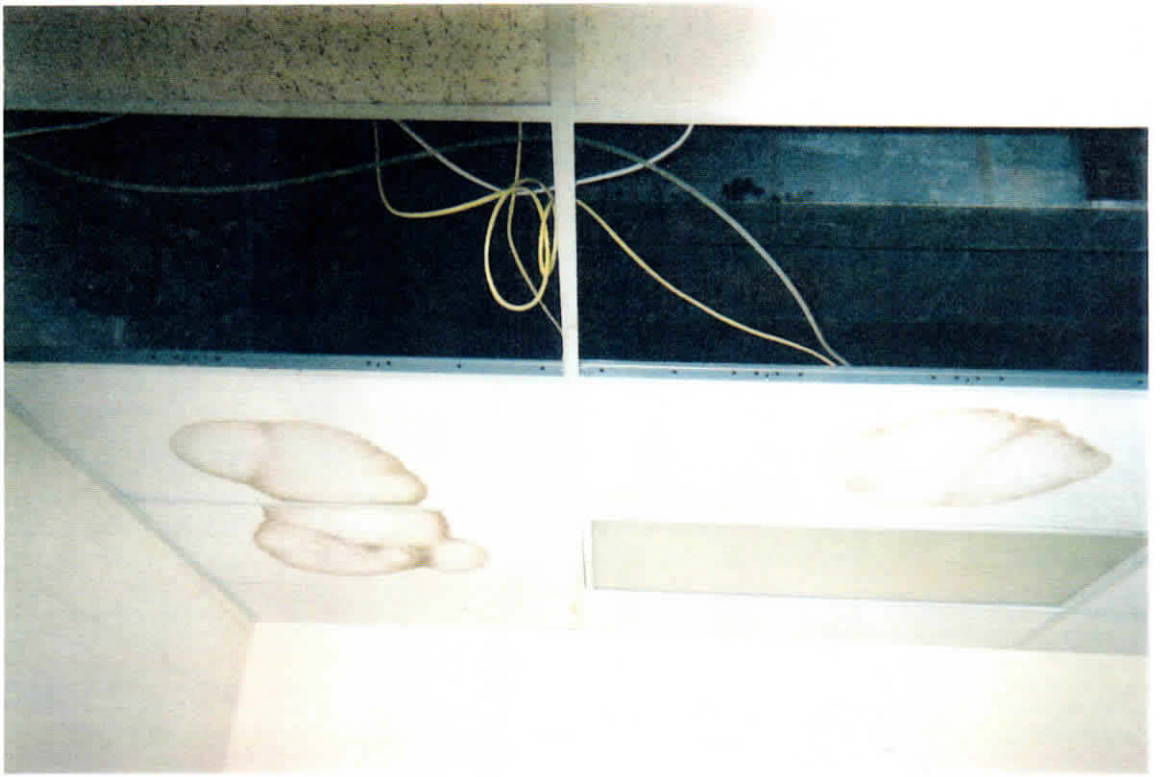


Motor Pool

IFR Lead Fragments



Bullet Backstop



Water Leakage Stains
Missing Ceiling Tiles

Water Leakage Floor

Water Leakage Floor

Flammables Cabinet

1-121 IN(M) Winder GA