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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
Columbus Armed Forces Reserve Center
Columbus, Nebraska

Survey date: February 7, 2011

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

May 3, 2011

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FOIA Requested Record #J-15-0085 (NE)
Released by National Guard Bureau

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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard, Armed Forces Reserve Center located in Columbus, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected for lead dust.

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Three of the nine samples collected had elevated lead levels well above the 200 ug/ft^2 standard. On top of the heating, ventilation, air conditioning unit (HVAC), located at ceiling level in the Assembly room; the surface dust contained lead levels of 1,359 ug/ft^2. If this dust is disturbed due to air movement or vibration, it can be deposited on the floor and other surfaces in the Assembly room creating a potential health hazard to room occupants. A second levated lead sample (800 ug/ft^2) was collected from a window sill on the second floor of the building in the library. A third elevated sample was collected on the floor of the former firing range (9,045 ug/ft^2).

Since the public has access to the Assembly room, the HVAC unit and other surfaces in the Assembly room should be cleaned so that lead levels are below 40 ug/ft^2. Other parts of the building such as the former firing range and library should be cleaned so that lead levels are below 200 ug/ft^2. A professional firm certified by the State of Nebraska for lead abatement should be contracted to abate lead levels. Trying to accomplish this task using NE ARNG employees may result in elevated lead exposures to those employees and may not meet the required standards when finished. (RAC 2)

When weapons are cleaned, special attention should be given to cleaning up the work area, by wet mopping surfaces, to prevent potential lead contamination from ammunition that may spread to other areas of the building. (RAC 2)

Management should continue to prohibit the presence of food and drink in work areas, stress the importance of hand washing prior to the consumption of food items and continue to clean the horizontal surfaces. (RAC 2)

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II. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard, Armed Forces Reserve Center located in Columbus, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the facility. Non-Responsive, Certified Industrial Hygienist (CIH) conducted this survey on February 7, 2011.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

III. Site Description

The building was constructed in 1955. A former firing range was located on the second floor. On the first floor is located an Assembly room that is available for public events.

IV. Scope of Work

The purpose of the site visit was to collect up to nine surface wipe samples in the building to be analyzed for lead contamination.

V. Findings, Discussion, and Recommendations

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, “For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces.”

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For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the facility is considered significant.

Results

Nine surface wipe samples were collected on representative surfaces throughout the facility and analyzed for lead. The results are contained in Table 1.

Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
AFRC Columbus
Columbus, Nebraska
February 7, 2011

Sample Number	Location	Lead Concentration ug/ft^2
W-1	Drill room on HVAC	**1359**
W-2	Drill room floor	<10
W-3	2nd floor locker room on locker	<91
W-4	2nd floor library on window sill	**800**
W-5	2nd floor end of firing range on floor	**9045**
W-6	Bay area on top of garage door	<91
W-7	Kitchen on cabinet	<91
W-8	Men's room on window ledge	<91
W-9	Office room 120 on desk-cabinet top	<91

Note:
1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

Three of the nine samples collected had elevated lead levels well above the 200 ug/ft^2 standard. On top of the heating, ventilation, air conditioning unit (HVAC), located at ceiling level in the Assembly room; the surface dust contained lead levels of 1,359 ug/ft^2. If this dust is disturbed due to air movement or vibration, it can be deposited on the floor and other surfaces in the Assembly room creating a potential health hazard to room occupants. A second levated lead sample (800 ug/ft^2) was collected from a window sill on the second floor of the building in the library. A third elevated sample was collected on the floor of the former firing range (9,045 ug/ft^2).

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Recommendations

Since the public has access to the Assembly room, the HVAC unit and other surfaces in the Assembly room should be cleaned so that lead levels are below 40 ug/ft^2. Other parts of the building such as the former firing range and library should be cleaned so that lead levels are below 200 ug/ft^2. A professional firm certified by the State of Nebraska for lead abatement should be contracted to abate lead levels. Trying to accomplish this task using NE ARNG employees may result in elevated lead exposures to those employees and may not meet the required standards when finished. (RAC 2)

When weapons are cleaned, special attention should be given to cleaning up the work area, by wet mopping surfaces, to prevent potential lead contamination from ammunition that may spread to other areas of the building. (RAC 2)

Management should continue to prohibit the presence of food and drink in work areas, stress the importance of hand washing prior to the consumption of food items and continue to clean the horizontal surfaces. (RAC 2)

Wipe sample locations

Figure 1 – Sample W-1

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Figure 2 – Sample W-2

Figure 3 – Sample W-3

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Figure 4 – Sample W-4

Figure 5 – Sample W-5

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Figure 6 – Sample W-6

Figure 7 – Sample W-7

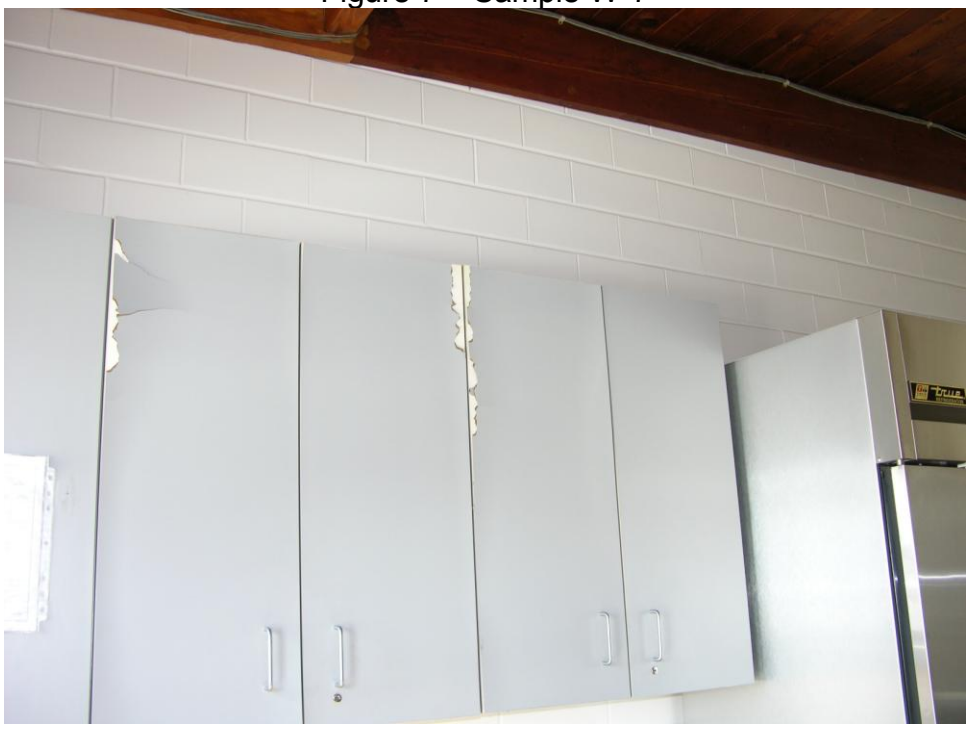

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Figure 8 – Sample W-8

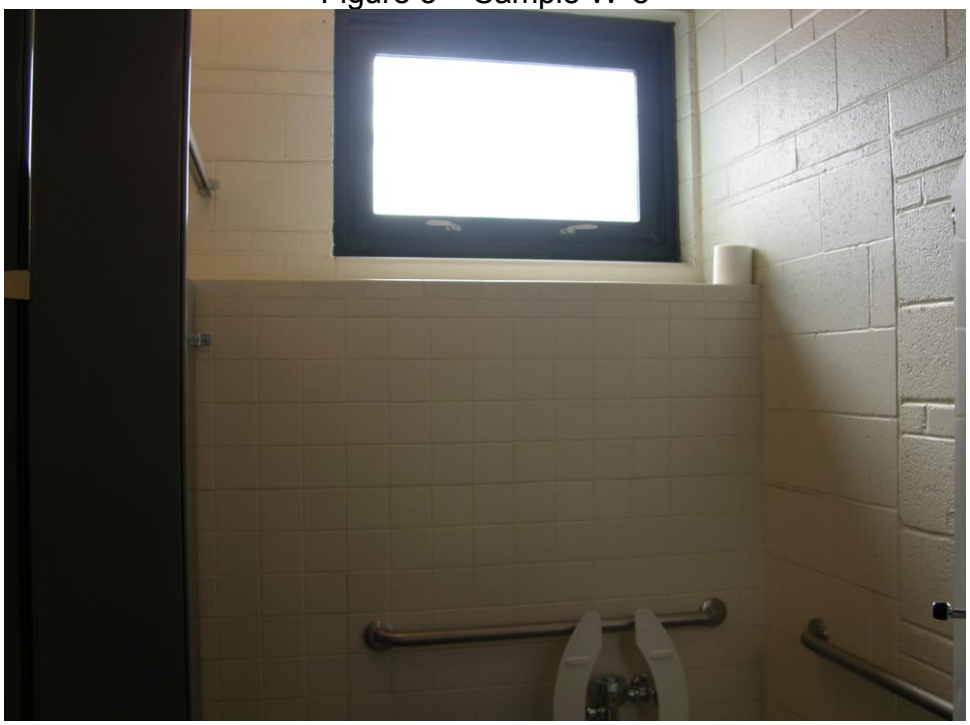

Figure 9 – Sample W-9

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Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report written by Non-Responsive, CIH, as a representative of Federal Occupational Health, U. S. Public Health Service.

Appendix A

Nebraska Army National Guard State Point of Contact

Non-Responsive
Occupational Health Nurse

AFRC Points of Contact

Non-Responsive

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Appendix B

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS / Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention:

Submitted By: Non-Responsive

Reference Data: Lead

Sampling Site:	NGB: Columbus, NE (RC)
Sample Media:	Ghost Wipe(s)®
Method Reference:	OSHA ID-121
Project ID:	Project 9894
DFOH Lab Nos.:	TM-11-48763 through TM-11-48771
Date Received:	02/16/11
Data Analyzed:	02/18/11 – 02/25/11
Date Issued:	02/25/11

The wipe samples were hot plate digested. The samples were run on a Perkin Elmer 200 flame atomic absorption spectrophotometer (AA).

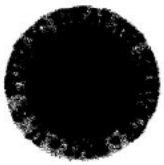
General Lab Comments:
All quality control criteria have been met.
* All samples received in condition acceptable for analysis unless otherwise noted.
** Sample results have not been corrected for contamination based on the field blank or other analytical blank unless otherwise noted.

Analytical results are given on the enclosed tables. Results relate only to items tested. If you have any questions about these results, feel free to phone the Laboratory at (312) 886-0413.

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

LAB # 11254



FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft²)
1	TM-11-48763	150	1359
2	TM-11-48764	<10	<10
3	TM-11-48765	<10	<91
4	TM-11-48766	88	800
5	TM-11-48767	995	9045
6	TM-11-48768	<10	<91
7	TM-11-48769	<10	<91
8	TM-11-48770	<10	<91
9	TM-11-48771	<10	<91

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft²	250 µg/ft²	400 µg/ft²

Metals in Wipe Limits
(based on one ft² sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft²	10 µg/ft²

Non-Responsive

Project 9894
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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

[redacted] Non-Responsive

538 S. Clark Street South, Suite 714
Chicago, IL 60605-1521
Tel: (312)-886-0413 Fax: (312)-886-0434

Agreement No.: A 106644
Statement of Work No.: S 157331
Project No: P 157416
Agency: ARNG
Proj. Manager: Columbus RC
Location (City, State): Columbus, Nebraska

For Lab Use Only: 9894
Project /Report #: 12811
Due Date:
Samples Received Chilled? YES NO (circle one)
Conditions on Receipt with Name & Date

Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: (A-None, B-H_2SO_4, C-HNO_3, D-NaOH)
STD- Standard
3D- Three Day Rush*
WH Weekend/Holiday*
Rev. 07/2010

ID #	Type¹	Media²	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (#)	Water Volume (Liters)	Code³	Turn Around Time*	Lab ID #
1	7	5	2-7-11		Drill room on HVAC				16			STD	TM-11-487163
2	7	5			Drill room on floor				144				487164
3	7	5			2nd floor, Locker room on locker				16				487165
4	7	5			2nd floor, library on window sill				16				487166
5	7	5			2nd floor, on floor at end of stairway				16				487167
6	7	5			Bay area, on top of garage door				16				487168
7	7	5			Kitchen on cabinet				16				487169
8	7	5			Men's room on window ledge				16				487170
9	7	5			Office, room 120, on desk cabinet				16				487171

1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8 - Other

1-Charcoal 2-Matched Weight, 0 Rum 3-PVC filter 4-M CE 0.8 um, 37 mm 5-Ghost Wipes™ 6. Passive badge 7. Other

COMMENTS: Please email results in word f

* Applied to organic and inorganic analysis in cases of an emergency only.

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Appendix C

Occupational Health Risk Assessment Codes

(Reference: DOD Letter of Instructions 6055.1)

Occupational health risk assessment codes (RACs) are included in this report to quantify health risks to personnel. risk assessment is an expression of health hazard severity and mishap probability, described in terms of route of exposure, actual exposure, exposure limit standards, potential health effects, duration of exposure, and number of exposed personnel. The following procedure is used to determine the RACs:

STEP 1: This step assesses points to determine the health hazard severity category (HHSC). The HHSC reflects the magnitude of exposure to a physical, chemical, or biological agent and the medical effects of exposure.

A. Exposure Points Assessed.

Alternate Route of Exposure		Exposure Conditions			
		<Action Level	Occasionally >Action Level Always <OEL	>Action Level <OEL	>OEL
AER Possible	NO	0	3	5	7
	YES	1-2	4	6	8

Notes: 1) AER = Alternate exposure route, such as skin absorption or ingestion. 2) OEL = Occupational Exposure Limit, such as TLV or PEL. 3) > = Greater than. 4) < = Less than.

B. Medical Effects Points Assessed

Condition	Points
No medical effects, such as nuisance noise and nuisance odor	0
Temporary reversible illness requiring supportive treatment, such as eye irritation and sore throat	1-2
Temporary reversible illness with a variable but limited period of disability, such as metal fume fever	3-4
Permanent, nonsevere illness or loss of capacity, such as permanent hearing loss	5-6
Permanent, severe, disabling, irreversible illness or death, such as asbestosis or lung cancer	7-8

C. The HHSC is determined by totaling the points assessed and using the following guide.

Total Points*	HHSC
13-16	I
9-12	II
5-8	III
0-4	IV

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* Sum of A and B above.

STEP 2: This step uses the following guidelines to assess points to determine the mishap probability category (MPC) for health hazards. The probability of mishap reflects the duration of exposure and the number of exposed personnel.

A. Duration of Exposure Points Assessed

Type of Exposure	Length of Exposure		
	1-8 hr/wk	>8 hr/wk/not continuous	Continuous
Irregular/Intermittent	1-2	4-6	NA
Regular/Periodic	2-3	5-7	8

B. Number of Exposed personnel Points Assessed

Number of Exposed Personnel	Points
<5	1-2
5-9	3-4
10-49	5-6
>49	7-8

C. The MPC for health hazards is determined by totaling the points assessed and using the following guide:

Total Points*	MPC
14-16	A
10-13	B
5-9	C
<5	D

* Sum of A and B above.

STEP 3: The RAC is determined using the following matrix:

HHSC	MPC			
	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
Fremont Armed Forces Reserve Center
Fremont, Nebraska

Survey date: February 7, 2011

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

May 3, 2011

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At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard, Armed Forces Reserve Center located in Fremont, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected for lead dust.

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Three out nine samples collected had lead levels well above the 200 ug/ft^2 standard. The highest level was from the floor of the former firing range (129,545 ug/ft^2). Samples from the heating, ventilation, and air conditioning unit (HVAC) located in the Assembly room were also high for lead (1,040 ug/ft^2). In the Kitchen adjacent to the Assembly room, a wipe sample from the top of the ventilation hood above the grill contained a lead level of 1,355 ug/ft^2. The source of the lead in the Assembly room and Kitchen is most likely from the former firing range.

Since the public has access to the Assembly room and the Kitchen, the HVAC unit and surfaces in these rooms should be cleaned so that lead levels are below 40 ug/ft^2. Other parts of the building such as the former firing range should be cleaned so that lead levels are below 200 ug/ft^2. A professional firm certified by the State of Nebraska for lead abatement should be contracted to abate lead levels. Trying to accomplish this task using NE ARNG employees may result in elevated lead exposures to those employees and may not meet the required standards when finished. (RAC 2)

When weapons are cleaned, special attention should be given to cleaning up the work area, by wet mopping surfaces, to prevent potential lead contamination from ammunition that may spread to other areas of the building. (RAC 2)

Management should continue to prohibit the presence of food and drink in work areas, stress the importance of hand washing prior to the consumption of food items and continue to clean the horizontal surfaces. (RAC 2)

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II. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard, Armed Forces Reserve Center located in Fremont, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the facility. Non-Responsive, Certified Industrial Hygienist (CIH) conducted this survey on February 7, 2011.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

III. Site Description

The building was constructed in 1955 and contains a firing range in the basement that is no longer used. The Assembly room is available to the public.

Figure 1

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IV. Scope of Work

The purpose of the site visit was to collect up to nine surface wipe samples in the building to be analyzed for lead contamination.

V. Findings, Discussion, and Recommendations

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

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Results

Nine surface wipe samples were collected on representative surfaces throughout the facility and analyzed for lead. The results are contained in Table 1.

Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
Fremont AFRC
Fremont, Nebraska
February 7, 2011

Sample Number	Location	Lead Concentration ug/ft^2
W-1	Drill room floor	<10
W-2	Drill room ceiling HVAC	**1040**
W-3	Kitchen on grill hood	**1355**
W-4	Firing range floor	**129545**
W-5	Basement storage room on window sill	106
W-6	Classroom floor	<91
W-7	2nd floor computer room floor	<91
W-8	Garage on cabinet	<91
W-9	Office room 203 on locker	<91

Note:
1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

Three out nine samples collected had lead levels well above the 200 ug/ft^2 standard. The highest level was from the floor of the former firing range (129,545 ug/ft^2). Samples from the heating, ventilation, and air conditioning unit (HVAC) located in the Assembly room were also high for lead (1,040 ug/ft^2). In the Kitchen adjacent to the Assembly room, a wipe sample from the top of the ventilation hood above the grill contained a lead level of 1,355 ug/ft^2. The source of the lead in the Assembly room and Kitchen is most likely from the former firing range.

Recommendations

Since the public has access to the Assembly room and the Kitchen, the HVAC unit and surfaces in these rooms should be cleaned so that lead levels are below 40 ug/ft^2. Other parts of the building such as the former firing range should be cleaned so that lead levels are below 200 ug/ft^2. A professional firm certified by the State of Nebraska for lead abatement should be contracted to abate lead levels. Trying to accomplish this task using NE ARNG employees may result in elevated lead exposures to those employees and may not meet the required standards when finished. (RAC 2)

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When weapons are cleaned, special attention should be given to cleaning up the work area, by wet mopping surfaces, to prevent potential lead contamination from ammunition that may spread to other areas of the building. (RAC 2)

Management should continue to prohibit the presence of food and drink in work areas, stress the importance of hand washing prior to the consumption of food items and continue to clean the horizontal surfaces. (RAC 2)

Wipe sample locations

Figure 2 – Sample W-1

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Figure 3 – Sample W-2

Figure 4 – Sample W-3

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Figure 5 – Sample W-4

Figure 6 – Sample W-5

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Figure 7 – Sample W-6

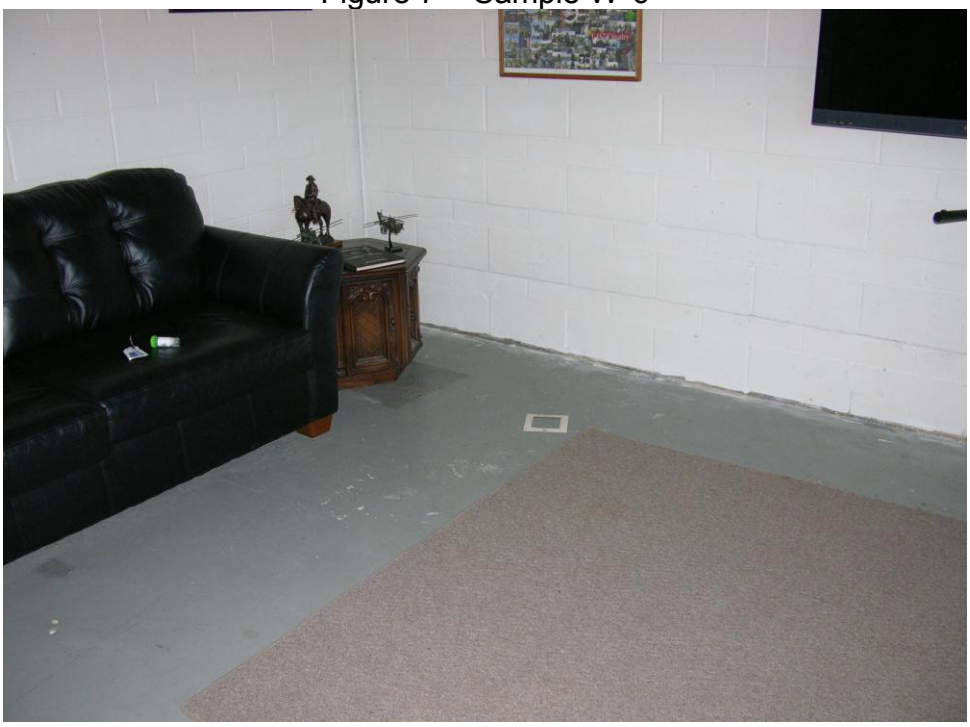

Figure 8 – Sample W-7

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Figure 9 – Sample W-8

Figure 10 – Sample W-9

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Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report written by Non-Responsive, CIH, as a representative of Federal Occupational Health, U. S. Public Health Service.

Appendix A

Nebraska Army National Guard State Point of Contact

Non-Responsive
Occupational Health Nurse

AFRC Points of Contact

Non-Responsive

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS / Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention:

Submitted By: Non-Responsive

Reference Data: Lead

Sampling Site:	NGB: Fremont, NE (RC)
Sample Media:	Ghost Wipe(s)®
Method Reference:	OSHA ID-121
Project ID:	Project 9895
DFOH Lab Nos.:	TM-11-48772 through TM-11-48780
Date Received:	02/16/11
Data Analyzed:	02/18/11 – 02/25/11
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The wipe samples were hot plate digested. The samples were run on a Perkin Elmer 200 flame atomic absorption spectrophotometer (AA).

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Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft²)
1	TM-11-48772	<10	<10
2	TM-11-48773	1040	1040
3	TM-11-48774	149	1355
4	TM-11-48775	14250	129545
5	TM-11-48776	12	106
6	TM-11-48777	<10	<91
7	TM-11-48778	<10	<91
8	TM-11-48779	<10	<91
9	TM-11-48780	<10	<91

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft²	250 µg/ft²	400 µg/ft²

Metals in Wipe Limits
(based on one ft² sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft²	10 µg/ft²

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

Project 9895
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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

[redacted]
Non-Responsive

536 S. Clark Street South, Suite 714	Agreement No.: A 1066444
Chicago, IL 60605-1521	Statement of Work No.: S 1573331
Tel: (312)-886-0413 Fax: (312)-886-0434	Project No: P 1574116
	Agency ARNG
	Proj. Manager Fremont AC
	Location (City, State): Fremont, Nebraska

For Lab Use Only Conditions on Receipt with Name & Date
Project /Report #: 4841
Due Date:
Samples Received Chilled? YES (NO) (circle one)
Rev. 07/2010

Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH
STD- Standard
3D- Three Day Rush*
WH Weekend/Holiday*

square inches

ID #	Type¹	Media²	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (ft²)	Water Volume (Liters)	Water Code³	Turn Around Time⁴	Lab ID #
1	T	S	2-7-11		Drill room floor				144			STD	TM-11-48772
2	T	S			Drill room ceiling HVAC				144				48773
3	T	S			Kitchen on grill hood				16				48774
4	T	S			Firing Range on floor				16				48775
5	T	S			Basement storage room on window sill				16				48776
6	T	S			Classroom floor				16				48777
7	T	S			2nd floor computer room floor				16				48778
8	T	S			Garage on corrosive cabinet				16				48779
9	T	S			Office room 203 on locker				16				48780

Lead 03449 ZD-121

1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8 - Other

1-Charcoal 2-Matched Weight, 0.8um 3-PVC filter 4-M CE 0.8 um , 37 mm 5-Ghost Wipes™ 6. Passive badge 7. Other

COMMENTS: Please email results in Word fo

Non-Responsive

* Applied to organic and inorganic analysis in cases of an emergency only. ⁶ Applied to inorganic and organic samples; 3D- Applied to organic and inorganic samples; 5-10 business days.

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Appendix C

Occupational Health Risk Assessment Codes

(Reference: DOD Letter of Instructions 6055.1)

Occupational health risk assessment codes (RACs) are included in this report to quantify health risks to personnel. risk assessment is an expression of health hazard severity and mishap probability, described in terms of route of exposure, actual exposure, exposure limit standards, potential health effects, duration of exposure, and number of exposed personnel. The following procedure is used to determine the RACs:

STEP 1: This step assesses points to determine the health hazard severity category (HHSC). The HHSC reflects the magnitude of exposure to a physical, chemical, or biological agent and the medical effects of exposure.

A. Exposure Points Assessed.

Alternate Route of Exposure		Exposure Conditions			
		<Action Level	Occasionally >Action Level Always <OEL	>Action Level <OEL	>OEL
AER Possible	NO	0	3	5	7
	YES	1-2	4	6	8

Notes: 1) AER = Alternate exposure route, such as skin absorption or ingestion. 2) OEL = Occupational Exposure Limit, such as TLV or PEL. 3) > = Greater than. 4) < = Less than.

B. Medical Effects Points Assessed

Condition	Points
No medical effects, such as nuisance noise and nuisance odor	0
Temporary reversible illness requiring supportive treatment, such as eye irritation and sore throat	1-2
Temporary reversible illness with a variable but limited period of disability, such as metal fume fever	3-4
Permanent, nonsevere illness or loss of capacity, such as permanent hearing loss	5-6
Permanent, severe, disabling, irreversible illness or death, such as asbestosis or lung cancer	7-8

C. The HHSC is determined by totaling the points assessed and using the following guide.

Total Points*	HHSC
13-16	I
9-12	II
5-8	III
0-4	IV

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* Sum of A and B above.

STEP 2: This step uses the following guidelines to assess points to determine the mishap probability category (MPC) for health hazards. The probability of mishap reflects the duration of exposure and the number of exposed personnel.

A. Duration of Exposure Points Assessed

Type of Exposure	Length of Exposure		
	1-8 hr/wk	>8 hr/wk/not continuous	Continuous
Irregular/Intermittent	1-2	4-6	NA
Regular/Periodic	2-3	5-7	8

B. Number of Exposed personnel Points Assessed

Number of Exposed Personnel	Points
<5	1-2
5-9	3-4
10-49	5-6
>49	7-8

C. The MPC for health hazards is determined by totaling the points assessed and using the following guide:

Total Points*	MPC
14-16	A
10-13	B
5-9	C
<5	D

* Sum of A and B above.

STEP 3: The RAC is determined using the following matrix:

HHSC	MPC			
	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
Armed Forces Reserve Center
Kearney, Nebraska

Survey date: March 25, 2010

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

February 13, 2011

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Appendices

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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard Army, Armed Forces Reserve Center located in Kearney, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected for lead dust.

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the building is considered significant.

Nine surface wipe samples were collected on representative surfaces throughout the facility and analyzed for lead. Two samples had significant levels of lead. One sample from the floor of the former firing range contained lead levels of 15,000 ug/ft^2. A second sample collected from the ceiling rafters in the assembly room contained lead levels of 740 ug/ft^2. The concern with the lead levels on the rafters in the assembly room is the potential for the lead containing dust to fall to the floor below if disturbed by wind or vibration. Unlike the former firing range, the assembly room is used by the public and Guard employees. It is recommended that the ceiling rafters in the assembly room be cleaned. The lead contaminated surfaces in the former firing range should be cleaned by a licensed lead abatement company. This same company could also perform the cleaning in the assembly room. In addition, continue to prohibit the presence of food and drink in the assembly room and former firing range, and stress the importance of hand washing prior to the consumption of food items.

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II. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard Army, Armed Forces Reserve Center located in Kearney, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the building. Non-Responsive, Certified Industrial Hygienist (CIH) conducted this survey on March 25, 2010.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

III. Site Description

The Armed Forces Reserve Center was constructed in 1996. A firing range is attached to the building but has not been used since 2007. The range has been cleaned of lead dust but needs additional cleaning.

The ARNG policy is not to allow activities within the building for children. The Assembly room is available to the public for wedding receptions and job fairs.

Figure 1

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IV. Scope of Work

Lead dust from firing ranges and the cleaning of fire arms can contaminate surfaces within a building. Therefore, nine surface wipe samples were collected and analyzed for the presence of lead. A surface area of 16 square inches was wiped with a Ghost Wipe, place in a plastic coin tube and shipped to the FOH Analytical Laboratory in Chicago, Illinois. The sample was then analyzed by flame atomic absorption spectrophotometer (AA) according to OSHA Analytical Method ID-121.

V. Assessment Criteria, Findings, Discussion, and Recommendations

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Surface Samples

Nine surface wipe samples were collected on representative surfaces throughout the facility and analyzed for lead. Two samples had significant levels of lead. One sample from the floor of the former firing range contained lead levels of 15,000 ug/ft^2. A second sample collected from the ceiling rafters in the assembly room contained lead levels of 740 ug/ft^2. The concern with the lead levels on the rafters in the assembly room is the potential for the lead containing dust to fall to the floor below if disturbed by wind or vibration. Unlike the former firing range, the assembly room is used by the public and Guard employees. The results are contained in Table 1.

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Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
Armed Forces Reserve Center
Kearney, Nebraska
March 25, 2010

Sample Number	Location	Lead Concentration ug/ft^2
W-1	Firing range on floor – Room 169	**15000**
W-2	Inside Vault on floor	<91
W-3	Supply/Unit Storage room on floor – Room 178	<91
W-4	Assembly room floor – center of room	<91
W-5	Assembly room – on ceiling rafter	**740**
W-6	Kitchen on floor	<91
W-7	Learning center on ledge – Room 144	<91
W-8	Assembly room on top of bulletin board	<91
W-9	Office window sill – Room 110	<91
Blank		<91

Note:

1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

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Wipe sample locations

Figure 2 – Sample W-1

Figure 3 – Sample W-2

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Figure 4 – Sample W-3

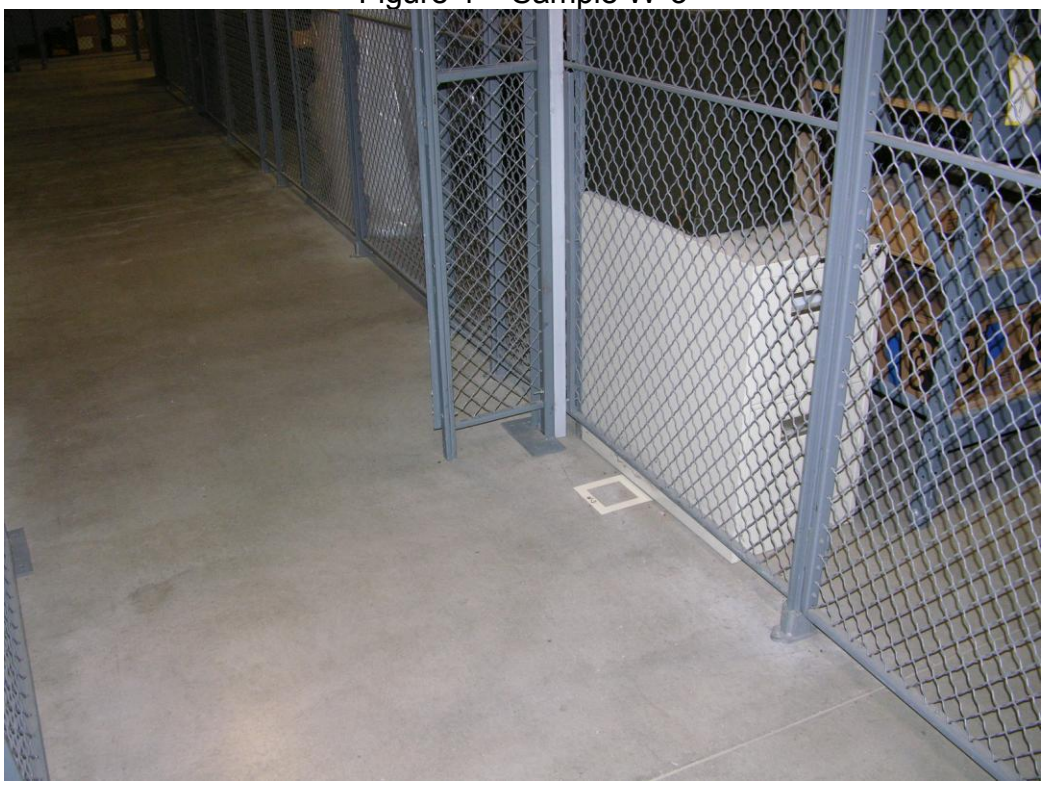

Figure 5 – Sample W-4

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Figure 6 – Sample W-5

Figure 7 – Sample W-6

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Figure 8 – Sample W-7

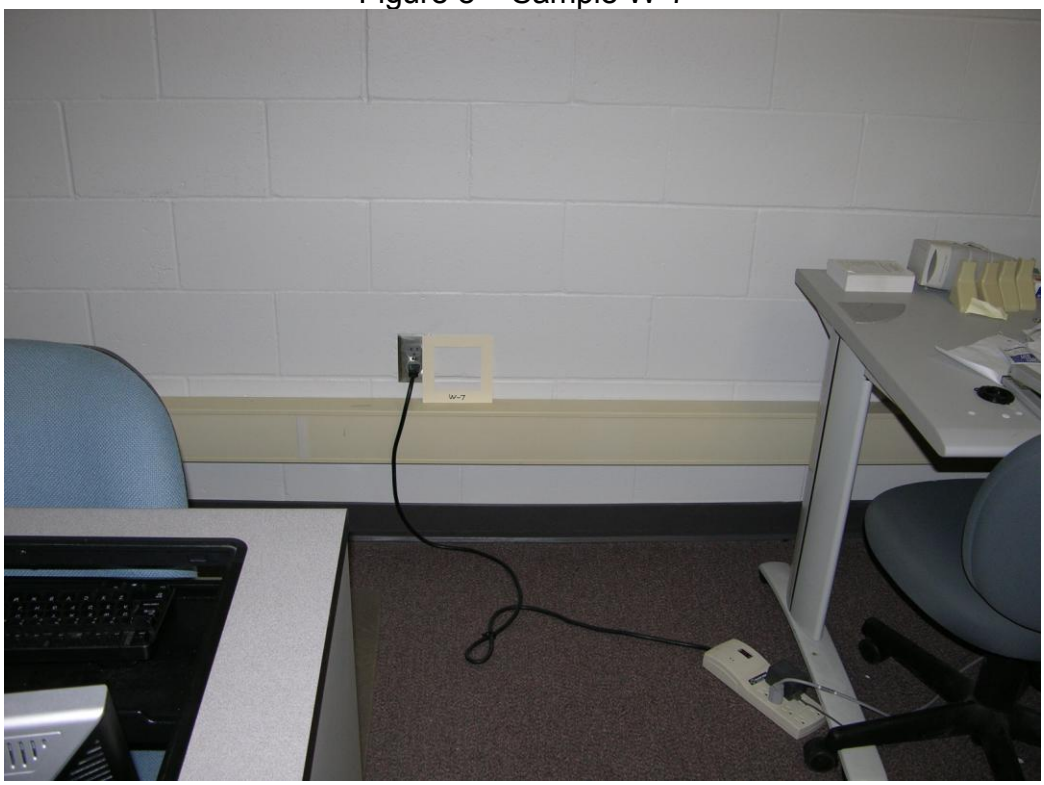

Figure 9 – Sample W-8

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Figure 10 – Sample W-9

Recommendations:

It is recommended that the ceiling rafters in the assembly room be cleaned. The lead contaminated surfaces in the former firing range should be cleaned by a licensed lead abatement company. This same company could also perform the cleaning in the assembly room. In addition, continue to prohibit the presence of food and drink in the assembly room and former firing range, and stress the importance of hand washing prior to the consumption of food items.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report written by Non-Responsive, CIH, as a representative of Federal Occupational Health, U. S. Public Health Service.

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Appendix A

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Nebraska Army National Guard State Points of Contact

Non-Responsive
Occupational Health Nurse

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Appendix B

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FOH ENVIRONMENTAL LABORATORY
636 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS / Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention: Non-Responsive

Submitted By:

Reference Data: Lead

Sampling Site:	NGB: Kearney, NE (Armory))
Sample Media:	Ghost Wipe(s)®
Method Reference:	OSHA ID-121
Project ID:	Project 9456
DFOH Lab Nos.:	TM-10-45202 through TM-10-45211
Date Received:	04/13/10
Data Analyzed:	04/20/10
Date Issued:	04/26/10

The samples were digested using a hot plate. The samples were run on a Perkin Elmer 200 flame atomic absorption spectrophotometer (AA).

General Lab Comments:
All quality control criteria have been met.
* All samples received in condition acceptable for analysis unless otherwise noted.
** Sample results have not been corrected for contamination based on the field blank or other analytical blank unless otherwise noted.

Analytical results are given on the enclosed tables. Results relate only to items tested. If you have any questions about these results, feel free to phone the Laboratory at (312) 886-0413.

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

Project 9456
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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft²)
W-1	TM-10-45202	1630	15000
W-2	TM-10-45203	<10	<91
W-3	TM-10-45204	<10	<91
W-4	TM-10-45205	<10	<91
W-5	TM-10-45206	81	740
W-6	TM-10-45207	<10	<91
W-7	TM-10-45208	<10	<91
W-8	TM-10-45209	<10	<91
W-9	TM-10-45210	<10	<91
W10**	TM-10-45211	<10	None Detected

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft²	250 µg/ft²	400 µg/ft²

Metals in Wipe Limits
(based on one ft² sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft²	10 µg/ft²

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

Project 9456
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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

FOH Laboratory

PROJECT REFERENCE

Agreement No.: A 106644

Statement of Work No.: S 136934

For Lab Use Only
Project /Report #: 9450
Due Date: 4/23/10
Samples Received Chilled? YES NO (circle one)
Conditions on Receipt with Name & Date
Intact

Contact Information: [redacted] Non-Responsive

Project No: P 149591

Agency/Project Name: Armory ARNG

Location (City, State): Kearney, NE

Water Sample Codes*: Container Types: P-Plastic, G-Glass, V-VOC; Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Turn Around Time Codes*: STD- Standard; R- Rush@; 2D- Two Day Rush*; ND- Next Day Rush*@; SD- Same Day Rush*@; WH- Weekend/Holiday*

Analysis Requested: Lead only

ID #	Type¹	Media²	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (in^2)	Water Volume (Liters)	Water Code³	Turn Around Time*	Lab ID #
W-1	7		3-25-2010		Firing range on floor Rm 169				16				TM-10-54202
W-2					Inside Vault on floor								54203
W-3					Supply Rm/Unit storage floor Rm 178								54204
W-4					Assembly Room - floor center of room								54205
W-5					Assembly Room on rafter at ceiling								54206
W-6					Kitchen floor								54207
W-7					Rm 144 - Learning Center on ledge								54208
W-8					Assembly Rm on top of display board								54209

Sample Type Codes¹: 1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8-Contact Plate 9-Tape 10-Spore Trap (Zefon & others)

Sample Media Codes²: 1-Charcoal 2-XAD 3-Matched Weight 4-Preweighted 5-MEA 6-CCA 7-R2A/TSA 8-Air-O-Cell Cassette 9-MCE Cassette (0.45) 10-MCE Cassette (0.8) 11-MCE Filter 12-Other

Relinquished By | Date & Time | Received By | Date & Time

[redacted] Non-Respons

COMMENTS:

* Applied to non-viable microbiological samples only. @ Applied to asbestos samples. SD: 2-hour PLM/PCM, 6-hour TEM; ND: 24-hour, R: 3-5 business days.

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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

FOH Laboratory

Contact Information

Non-Responsive [redacted]

PROJECT REFERENCE

Agreement No.:	A	106644
Statement of Work No.:	S	136934
Project No:	P	149591
Agency/Project Name:		Armory ARNG
Location (City, State):		Kearney, NE

For Lab Use Only

Project /Report #: 9456
Due Date: 4/23/10
Samples Received Chilled? YES (NO) (circle one)
Conditions on Receipt with Name & Date: 2oh2

Water Sample Codes[1]

Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Turn Around Time Codes[4]

(STD- Standard)
R- Rush[@]
2D- Two Day Rush*
ND- Next Day Rush*[@]
SD- Same Day Rush*[@]
WH- Weekend/Holiday*

Analysis Requested

ID #	Type[1]	Media[2]	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (in²)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested
W-9	7		3-25-2010		Office Rm 110 window sill				16				TM-N-54210	Lead only
W-10					blank								54211	

Sample Type Codes[1]
1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8-Contact Plate 9-Tape 10-Spore Trap (Zefon & others)

Sample Media Codes[2]
1-Charcoal 2-XAD 3-Matched Weight 4-Preweighted 5-MEA 6-CCA 7-R2A/TSA 8-Air-O-Cell Cassette 9-MCE Cassette (0.45) 10-MCE Cassette (0.8) 11-MCE Filter 12-Other

Relinquished By	Date & Time	Received By	Date & Time
[redacted]			Non-Respo

COMMENTS:

* Applied to non-viable microbiological samples only. [@] Applied to asbestos samples, SD: 2-hour PLM/PCM, 6-hour TEM; ND: 24-hour; R: 3-5 business days.

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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
Armed Forces Reserve Center
Wayne, Nebraska

Survey date: February 7, 2011

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

May 2, 2011

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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard, Armed Forces Reserve Center located in Wayne, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected and analyzed for lead dust.

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the facility is considered significant.

Two of the nine samples collected had detectable lead levels, both below the 200 ug/ft^2 standard. One sample on a pipe in the Assembly room was 37 ug/ft^2 for lead. A second sample collected on the top of the window door between the Kitchen and Assembly room contained lead levels of 126 ug/ft^2 .

Since the public has access to the Assembly room and Kitchen, the surfaces should be cleaned by wet wiping the horizontal surfaces so that lead levels are below 40 ug/ft^2. (RAC 3)

When weapons are cleaned, special attention should be given to cleaning up the work area, by wet mopping surfaces, to prevent potential lead contamination from ammunition that may spread to other areas of the building. (RAC 3)

II. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard, Armed Forces Reserve Center located in Wayne, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the building. Non-Responsive, Certified Industrial Hygienist (CIH) conducted this survey on February 7, 2011.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

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III. Site Description

Constructed in 1963, the AFRC consists of offices, assembly room, kitchen, class rooms, maintenance garage bay, and storage rooms. The public does have access to the assembly room and the adjacent kitchen.

Figure 1

IV. Scope of Work

The purpose of the site visit was to collect up to nine surface wipe samples in the building to be analyzed for lead contamination.

V. Findings, Discussion, and Recommendations

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, “For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said

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children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the facility is considered significant.

Surface Samples

Nine surface wipe samples were collected on representative surfaces throughout the facility and analyzed for lead. The results are contained in Table 1.

Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
Armed Forces Reserve Center
Wayne, Nebraska
February 7, 2011

Sample Number	Location	Lead Concentration ug/ft^2
W-1	Assembly room on pipe	37
W-2	Assembly room on floor	<10
W-3	Maintenance bay on metal file cabinet	<91
W-4	Maintenance bay on metal rack at North end	<91
W-5	Maintenance bay on floor	<91
W-6	Kitchen on top of window door	**126**
W-7	Storage room floor	<91
W-8	Office on file cabinet	<91
W-9	Class room on floor	<91
W-10	blank	ND

Note:
1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

Two of the nine samples collected had detectalbe lead levels, both below the 200 ug/ft^2 standard. One sample on a pipe in the Assembly room was 37 ug/ft^2 for lead. A second sample collected on the top of the window door between the kitchen and Assembly room contained lead levels of 126 ug/ft^2 .

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Recommendations

Since the public has access to the Assembly room and Kitchen, the surfaces should be cleaned by wet wiping the horizontal surfaces so that lead levels are below 40 ug/ft^2. (RAC 3)

When weapons are cleaned, special attention should be given to cleaning up the work area, by wet mopping surfaces, to prevent potential lead contamination from ammunition that may spread to other areas of the building. (RAC 3)

Wipe sample locations

Figure 2 – Sample W-1

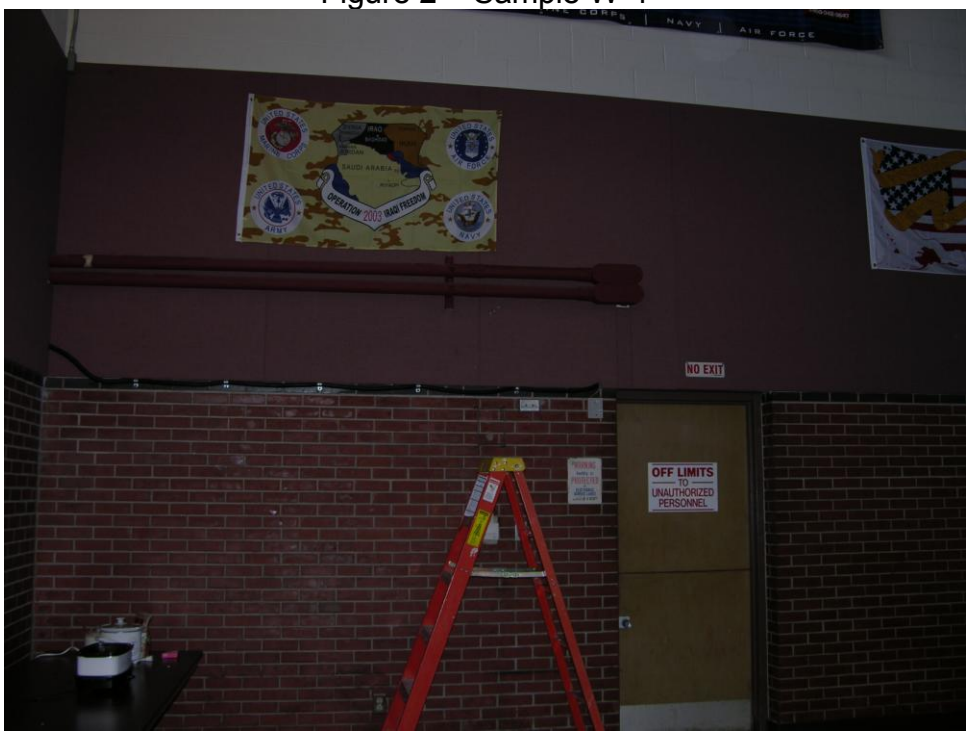

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Figure 3 – Sample W-2

Figure 4 – Sample W-3

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Figure 5 – Sample W-4

Figure 6 – Sample W-5

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Figure 7 – Sample W-6

Figure 8 – Sample W-7

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Figure 9 – Sample W-8

Figure 10 – Sample W-9

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Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report written by Non-Responsive, CIH, as a representative of Federal Occupational Health, U. S. Public Health Service.

Appendix A

Nebraska Army National Guard State Points of Contact

Non-Responsive
Occupational Health Nurse

AFRC Point of Contact

Non-Responsive

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Appendix B

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS / Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention:

Submitted By: Non-Responsive

Reference Data: Lead

Sampling Site:	NGB: Wayne, NE (RC)
Sample Media:	Ghost Wipe(s)®
Method Reference:	OSHA ID-121
Project ID:	Project 9886
DFOH Lab Nos.:	TM-11-48691 through TM-11-48700
Date Received:	02/16/11
Data Analyzed:	02/18/11 – 02/22/11
Date Issued:	02/22/11

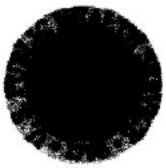
The wipe samples were hot plate digested. The samples were run on a Perkin Elmer 200 flame atomic absorption spectrophotometer (AA).

General Lab Comments:
All quality control criteria have been met.
* All samples received in condition acceptable for analysis unless otherwise noted.
** Sample results have not been corrected for contamination based on the field blank or other analytical blank unless otherwise noted.

Analytical results are given on the enclosed tables. Results relate only to items tested. If you have any questions about these results, feel free to phone the Laboratory at (312) 886-0413.

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY



FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft²)
1	TM-11-48691	37	37
2	TM-11-48692	<10	<10
3	TM-11-48693	<10	<91
4	TM-11-48694	<10	<91
5	TM-11-48695	<10	<91
6	TM-11-48696	14	126
7	TM-11-48697	<10	<91
8	TM-11-48698	<10	<91
9	TM-11-48699	<10	<91
10**	TM-11-48700	<10	None Detected

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft²	250 µg/ft²	400 µg/ft²

Metals in Wipe Limits
(based on one ft² sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft²	10 µg/ft²

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

LAB # 102643

Project 9886
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Surface Wipe Sampling for Lead
Survey date: February 7, 2011

Wayne AFRC
Wayne, Nebraska

US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

[redacted] Non-Responsive

539 S. Clark Street South, Suite 714
Chicago, IL 60605-1521
Tel: (312)-886-0413 Fax: (312)-886-0434

Agreement No.: A 106644
Statement of Work No.: S 157331
Project No: P 157416
Agency Proj. Manager: ARNG Wayne RC
Location (City, State): Wayne Nebraska

For Lab Use Only — Project /Report #: 9886 — Due Date: 2-28-11 — Samples Received Chilled? YES (NO) (circle one) — Conditions on Receipt with Name & Date

Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: (A-None, B-H_2SO_4, C-HNO_3, D-NaOH)
STD- Standard
3D- Three Day Rush*
WH Weekend/Holiday*
Squares, inches

Rev. 07/2010

ID #	Sample Type*	Sample Media*	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (sq. in.)	Water Volume (Liters)	Water Code*	Turn Around Time*	Lab ID #
1	7	5	2-7-11		Drill room on pipe				144			STD	TM-11-48091
2	7	5			Drill room on floor				144				48092
3	7	5			Maintenance bay on metal file cabinet				16				48093
4	7	5			Maintenance bay metal rack, Metal				16				48094
5	7	5			Maintenance bay on floor				16				48095
6	7	5			Kitchen on top of window door				16				48096
7	7	5			Storage room on floor				16				48097
8	7	5			Office on file cabinet				16				48098
9	7	5			Classroom on floor				16				48099
10	7	5			blank				—				48100

1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8 - Other

1-Charcoal 2-
3-PVC filter
5-Ghost Wipes™
7- Other

COMMENTS: Please email results

* Applied to organic and inorganic analysis in cases of an emergency only. ◆ Applied to inorganic and organic samples, SD: Applied to organic and inorganic samples 7-10 business days.

Non-Responsive

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Appendix C

Occupational Health Risk Assessment Codes

(Reference: DOD Letter of Instructions 6055.1)

Occupational health risk assessment codes (RACs) are included in this report to quantify health risks to personnel. risk assessment is an expression of health hazard severity and mishap probability, described in terms of route of exposure, actual exposure, exposure limit standards, potential health effects, duration of exposure, and number of exposed personnel. The following procedure is used to determine the RACs:

STEP 1: This step assesses points to determine the health hazard severity category (HHSC). The HHSC reflects the magnitude of exposure to a physical, chemical, or biological agent and the medical effects of exposure.

A. Exposure Points Assessed.

Alternate Route of Exposure		Exposure Conditions			
		<Action Level	Occasionally >Action Level Always <OEL	>Action Level <OEL	>OEL
AER Possible	NO	0	3	5	7
	YES	1-2	4	6	8

Notes: 1) AER = Alternate exposure route, such as skin absorption or ingestion. 2) OEL = Occupational Exposure Limit, such as TLV or PEL. 3) > = Greater than. 4) < = Less than.

B. Medical Effects Points Assessed

Condition	Points
No medical effects, such as nuisance noise and nuisance odor	0
Temporary reversible illness requiring supportive treatment, such as eye irritation and sore throat	1-2
Temporary reversible illness with a variable but limited period of disability, such as metal fume fever	3-4
Permanent, nonsevere illness or loss of capacity, such as permanent hearing loss	5-6
Permanent, severe, disabling, irreversible illness or death, such as asbestosis or lung cancer	7-8

C. The HHSC is determined by totaling the points assessed and using the following guide.

Total Points*	HHSC
13-16	I
9-12	II
5-8	III
0-4	IV

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* Sum of A and B above.

STEP 2: This step uses the following guidelines to assess points to determine the mishap probability category (MPC) for health hazards. The probability of mishap reflects the duration of exposure and the number of exposed personnel.

A. Duration of Exposure Points Assessed

Type of Exposure	Length of Exposure		
	1-8 hr/wk	>8 hr/wk/not continuous	Continuous
Irregular/Intermittent	1-2	4-6	NA
Regular/Periodic	2-3	5-7	8

B. Number of Exposed personnel Points Assessed

Number of Exposed Personnel	Points
<5	1-2
5-9	3-4
10-49	5-6
>49	7-8

C. The MPC for health hazards is determined by totaling the points assessed and using the following guide:

Total Points*	MPC
14-16	A
10-13	B
5-9	C
<5	D

* Sum of A and B above.

STEP 3: The RAC is determined using the following matrix:

HHSC	MPC			
	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
Kearney Armory
Kearney, Nebraska

Survey date: March 25, 2010

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

May 25, 2010

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Appendices

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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Division of Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard Army, Armory located in Kearney, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected for lead dust.

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Nine surface wipe samples were collected on representative surfaces throughout the facility and analyzed for lead. Two samples had significant levels of lead. One sample from the floor of the former firing range contained lead levels of 15,000 ug/ft^2. A second sample collected from the ceiling rafters in the assembly room contained lead levels of 740 ug/ft^2. The concern with the lead levels on the rafters in the assembly room is the potential for the lead containing dust to fall to the floor below if disturbed by wind or vibration. Unlike the former firing range, the assembly room is used by the public and Guard employees. It is recommended that the ceiling rafters in the assembly room be cleaned. The lead contaminated surfaces in the former firing range should be cleaned by a licensed lead abatement company. This same company could also perform the cleaning in the assembly room. In addition, continue to prohibit the presence of food and drink in the assembly room and former firing range, and stress the importance of hand washing prior to the consumption of food items.

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II. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard Army, Kearney Armory located in Kearney, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the Armory. Non-Responsive, Certified Industrial Hygienist (CIH) conducted this survey on March 25, 2010.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

III. Site Description

The Kearney Armory was constructed in 1996. A firing range is attached to the building but has not been used since 2007. The range has been cleaned of lead dust but needs additional cleaning.

The Armory policy is not to allow activities within the building for children. The Assembly room is available to the public for wedding receptions and job fairs.

Figure 1

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IV. Scope of Work

Lead dust from firing ranges and the cleaning of fire arms can contaminate surfaces within a building. Therefore, nine surface wipe samples were collected and analyzed for the presence of lead. A surface area of 16 square inches was wiped with a Ghost Wipe, place in a plastic coin tube and shipped to the FOH Analytical Laboratory in Chicago, Illinois. The sample was then analyzed by flame atomic absorption spectrophotometer (AA) according to OSHA Analytical Method ID-121.

V. Assessment Criteria, Findings, Discussion, and Recommendations

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Surface Samples

Nine surface wipe samples were collected on representative surfaces throughout the facility and analyzed for lead. Two samples had significant levels of lead. One sample from the floor of the former firing range contained lead levels of 15,000 ug/ft^2. A second sample collected from the ceiling rafters in the assembly room contained lead levels of 740 ug/ft^2. The concern with the lead levels on the rafters in the assembly room is the potential for the lead containing dust to fall to the floor below if disturbed by wind or vibration. Unlike the former firing range, the assembly room is used by the public and Guard employees. The results are contained in Table 1.

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Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
Kearney Armory
Kearney, Nebraska
March 25, 2010

Sample Number	Location	Lead Concentration ug/ft^2
W-1	Firing range on floor – Room 169	**15000**
W-2	Inside Vault on floor	<91
W-3	Supply/Unit Storage room on floor – Room 178	<91
W-4	Assembly room floor – center of room	<91
W-5	Assembly room – on ceiling rafter	**740**
W-6	Kitchen on floor	<91
W-7	Learning center on ledge – Room 144	<91
W-8	Assembly room on top of bulletin board	<91
W-9	Office window sill – Room 110	<91
Blank		<91

Note:

1) ug/ft^2= micrograms per square foot of surface area.
2) **Bold** indicates that concentration was "significant."

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Wipe sample locations

Figure 2 – Sample W-1

Figure 3 – Sample W-2

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Figure 4 – Sample W-3

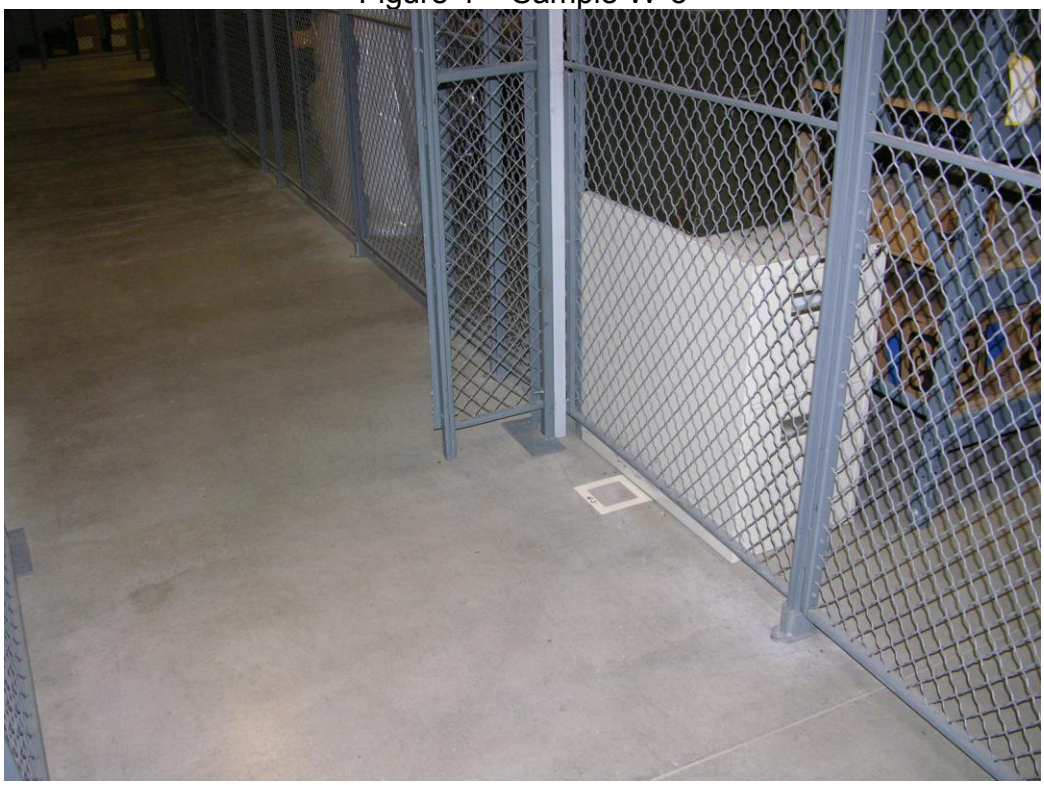

Figure 5 – Sample W-4

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Figure 6 – Sample W-5

Figure 7 – Sample W-6

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Figure 8 – Sample W-7

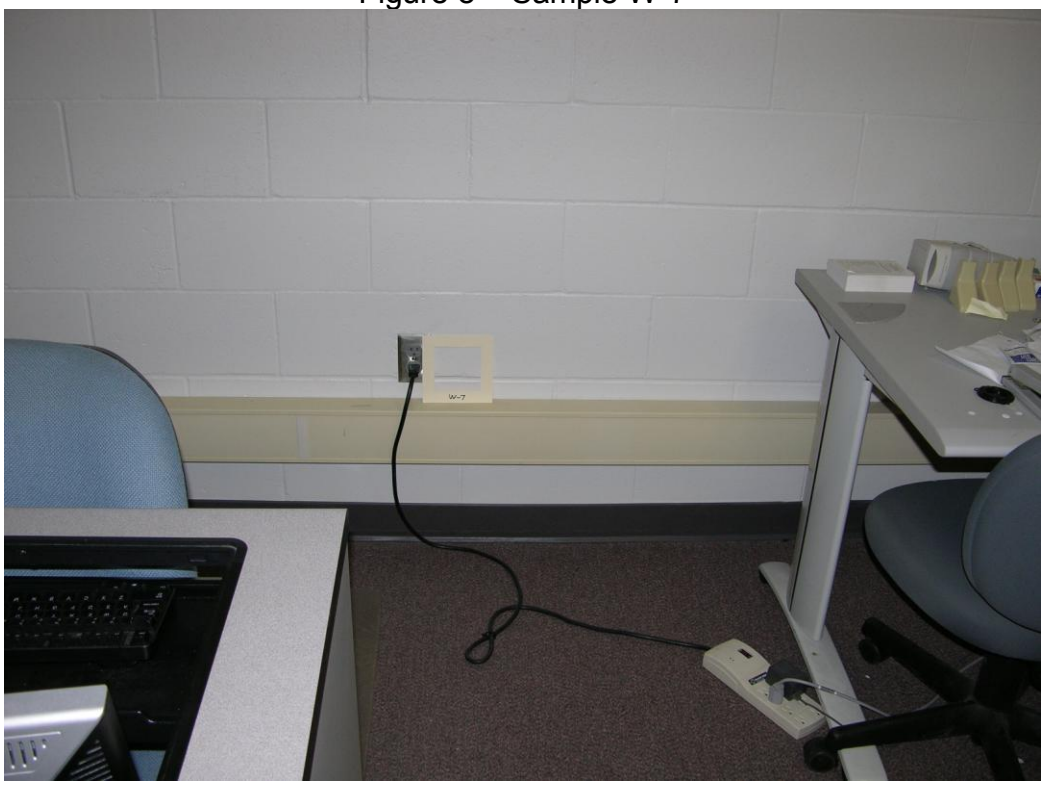

Figure 9 – Sample W-8

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Figure 10 – Sample W-9

Recommendations:

It is recommended that the ceiling rafters in the assembly room be cleaned. The lead contaminated surfaces in the former firing range should be cleaned by a licensed lead abatement company. This same company could also perform the cleaning in the assembly room. In addition, continue to prohibit the presence of food and drink in the assembly room and former firing range, and stress the importance of hand washing prior to the consumption of food items.

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report written by Non-Responsive, CIH, as a representative of Federal Occupational Health, U. S. Public Health Service.

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Appendix A

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Nebraska Army National Guard State Points of Contact

Non-Responsive
Occupational Health Nurse

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Appendix B

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FOH ENVIRONMENTAL LABORATORY
636 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS / Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention: Non-Responsive

Submitted By:

Reference Data: Lead

Sampling Site:	NGB: Kearney, NE (Armory))
Sample Media:	Ghost Wipe(s)®
Method Reference:	OSHA ID-121
Project ID:	Project 9456
DFOH Lab Nos.:	TM-10-45202 through TM-10-45211
Date Received:	04/13/10
Data Analyzed:	04/20/10
Date Issued:	04/26/10

The samples were digested using a hot plate. The samples were run on a Perkin Elmer 200 flame atomic absorption spectrophotometer (AA).

General Lab Comments:
All quality control criteria have been met.
* All samples received in condition acceptable for analysis unless otherwise noted.
** Sample results have not been corrected for contamination based on the field blank or other analytical blank unless otherwise noted.

Analytical results are given on the enclosed tables. Results relate only to items tested. If you have any questions about these results, feel free to phone the Laboratory at (312) 886-0413.

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft²)
W-1	TM-10-45202	1630	15000
W-2	TM-10-45203	<10	<91
W-3	TM-10-45204	<10	<91
W-4	TM-10-45205	<10	<91
W-5	TM-10-45206	81	740
W-6	TM-10-45207	<10	<91
W-7	TM-10-45208	<10	<91
W-8	TM-10-45209	<10	<91
W-9	TM-10-45210	<10	<91
W10**	TM-10-45211	<10	None Detected

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft²	250 µg/ft²	400 µg/ft²

Metals in Wipe Limits
(based on one ft² sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft²	10 µg/ft²

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

FOH Laboratory

PROJECT REFERENCE
Agreement No.: A 106644
Statement of Work No.: S 136934

For Lab Use Only
Project /Report #: 9450
Due Date: 4/23/10
Samples Received Chilled? YES NO (circle one)
Conditions on Receipt with Name & Date
1602

Contact Information: [redacted] Non-Responsive

Project No: P 149591
Agency/Project Name: Armory ARNG
Location (City, State): Kearney, NE

Water Sample Codes*: Container Types: P-Plastic, G-Glass, V-VOC; Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Turn Around Time Codes*: STD- Standard; R- Rush@; 2D- Two Day Rush*; ND- Next Day Rush*@; SD- Same Day Rush*@; WH- Weekend/Holiday*

Analysis Requested: Lead only

ID #	Type¹	Media²	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (in^2)	Water Volume (Liters)	Water Code³	Turn Around Time⁴	Lab ID #
W-1	T		3-25-2010		Firing range on floor Rm 169				16				TM-10-54202
W-2					Inside Vault on floor								54203
W-3					Supply Rm/Unit storage floor Rm 178								54204
W-4					Assembly Room - floor center of room								54205
W-5					Assembly Room on rafter at ceiling								54206
W-6					Kitchen floor								54207
W-7					Rm 144 - Learning Center on ledge								54208
W-8					Assembly Rm on top of display board								↓54209

Sample Type Codes¹: 1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8-Contact Plate 9-Tape 10-Spore Trap (Zefon & others)

Sample Media Codes²: 1-Charcoal 2-XAD 3-Matched Weight 4-Preweighted 5-MEA 6-CCA 7-R2A/TSA 8-Air-O-Cell Cassette 9-MCE Cassette (0.45) 10-MCE Cassette (0.8) 11-MCE Filter 12-Other

Relinquished By | Date & Time | Received By | Date & Time
[redacted] Non-Respon

COMMENTS:

* Applied to non-viable microbiological samples only. @ Applied to asbestos samples. SD: 2-hour PLM/PCM, 6-hour TEM; ND: 24-hour, R: 3-5 business days.

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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

FOH Laboratory	PROJECT REFERENCE		For Lab Use Only	
	Agreement No.:	A 106644	Project /Report #: 9456 Due Date: 4/23/10 Samples Received Chilled? YES (NO) (circle one)	Conditions on Receipt with Name & Date 2of2
	Statement of Work No.:	S 136934		
Contact Information	Project No:	P 149591	Water Sample Codes[1]	Turn Around Time Codes[4]
[redacted] Non-Responsive	Agency/Project Name:	Armory ARNG	Container Types: P-Plastic, G-Glass, V-VOC Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH	(STD- Standard) ~~R- Rush~~[@] 2D- Two Day Rush* ND- Next Day Rush*[@] SD- Same Day Rush*[@] WH- Weekend/Holiday*
	Location (City, State):	Kearney, NE		

Sample ID #	Type[1]	Media[2]	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (in²)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested
W-9	7		3-25-2010		Office Rm 110 window sill				16				TM-N-54210	Lead only
W-10					blank								54211	

Sample Type Codes[1]	Sample Media Codes[2]	Relinquished By	Date & Time	Received By	Date & Time
1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8-Contact Plate 9-Tape 10-Spore Trap (Zefon & others)	1-Charcoal 2-XAD 3-Matched Weight 4-Preweighted 5-MEA 6-CCA 7-R2A/TSA 8-Air-O-Cell Cassette 9-MCE Cassette (0.45) 10-MCE Cassette (0.8) 11-MCE Filter 12-Other	[redacted] Non-Respo			

COMMENTS:

* Applied to non-viable microbiological samples only. [@] Applied to asbestos samples, SD: 2-hour PLM/PCM, 6-hour TEM; ND: 24-hour; R: 3-5 business days.

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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
Norfolk Armory
Norfolk, Nebraska

Survey date: September 23, 2010

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

November 15, 2010

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FOIA Requested Record #J-15-0085 (NE)
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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard Armory located in Norfolk, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected for lead dust.

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Nine surface wipe samples were collected on representative surfaces in the facility and analyzed for lead dust. Six of the nine samples contained lead levels above 40 ug/ft^2. Sample locations of greatest concern are on the heating unit in the Drill room with lead levels of 2,345 ug/ft^2, Drill room window sill with 78 ug/ft^2, and the Kitchen window sill with 718 ug/ft^2. These areas are open to the public with the possibility of children being present. Therefore, the 40 ug/ft^2 standard applies. The former firing range in the basement had surface lead levels between 155 and 4,682 ug/ft^2.

A licensed lead abatement contractor should be hired to clean all floors, walls, furniture, and equipment throughout the building using vacuum cleaners equipped with high efficiency particulate air-purifying (HEPA) filters followed by a wet surface wipe cleaning. Conduct post cleanup wipe sampling to verify adequacy of cleaning.

The water on the floor of Mechanical room should be dried and any visible mold removed.

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II. Table of Findings and Recommendations

Findings	*Recommendations*	*RAC*
Surface Samples		
Nine surface wipe samples were collected on representative surfaces in the facility and analyzed for lead dust. Six of the nine samples contained lead levels above 40 ug/ft^2. Sample locations of greatest concern are on the heating unit in the Drill room with 2,345 ug/ft^2, Drill room window sill with 78 ug/ft^2, and the Kitchen window sill with 718 ug/ft^2. These areas are open to the public and the 40 ug/ft^2 standard applies. The former firing range in the basement had surface lead levels between 155 and 4,682 ug/ft^2.	A licensed lead abatement contractor should be hired to clean all floors, walls, furniture, and equipment throughout the building using vacuum cleaners equipped with high efficiency particulate air-purifying (HEPA) filters followed by a wet surface wipe cleaning. Conduct post cleanup wipe sampling to verify adequacy of cleaning.	2
Mold		
Water is present on the floor of the Mechanical room due to a leak. There is a musty odor and mold is visible.	The water on the floor of Mechanical room should be dried and any visible mold removed.	3

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III. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard, Norfolk Armory located in Norfolk, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the Armory. Non-Responsive, Certified Industrial Hygienist (CIH) conducted this survey on September 23, 2010.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

IV. Site Description

The Norfolk Armory is a brick building constructed in 1957. The building consists of a Drill room or Assembly room, Offices, Kitchen, Storage area. The Drill room is open to the public for wedding receptions and auctions. Approximately every other weekend an event is held in the Drill room that is open to the public. The basement contains a former firing range that is no longer in use. This area is now filled with metal lockers and the storage of equipment. A Janitor's room is in the basement as well as the Mechanical room. Because of a water leak, the floor of the Mechanical room is wet and mold is present.

Figure 1

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V. Scope of Work

This survey was conducted to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected in the building and shipped to the FOH laboratory in Chicago for analysis of lead content.

VI. Findings, Discussion, and Recommendations

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Surface Samples

Nine surface wipe samples were collected on representative surfaces in the facility and analyzed for lead dust. Six of the nine samples contained lead levels above 40 ug/ft^2. Sample locations of greatest concern are on the heating unit in the Drill room with lead levels of 2,345 ug/ft^2, Drill room window sill with 78 ug/ft^2, and the Kitchen window sill with 718 ug/ft^2. Although the floor of the Drill room was non-detectable for lead, these areas are open to the public with the possibility of children being present. Therefore, the 40 ug/ft^2 standard applies. The former firing range in the basement had surface lead levels between 155 and 4,682 ug/ft^2. The results are contained in Table 1.

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Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
Norfolk Armory
Norfolk, Nebraska
September 23, 2010

Sample Number	Location	Lead Concentration ug/ft^2
W-1	Drill room on heating unit	**2,345**
W-2	Drill room on north window sill	**78**
W-3	Drill room on floor	<10
W-4	Room 117 on office table	<91
W-5	Kitchen on window sill	**718**
W-6	Firing range on floor	**4,682**
W-7	Firing range on wooden book case	155
W-8	Firing range on locker 47	**618**
W-9	Basement supply room	<91
W-10	Blank	

Note:
1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

Recommendation

A licensed lead abatement contractor should be hired to clean all floors, walls, furniture, and equipment throughout the building using vacuum cleaners equipped with high efficiency particulate air-purifying (HEPA) filters followed by a wet surface wipe cleaning. Conduct post cleanup wipe sampling to verify adequacy of cleaning.

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Wipe sample locations

Figure 2 – Sample W-1 – Drill room heating unit

Figure 3 – Sample W-2 – Drill room window sill

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Figure 4 – Sample W-3 – Drill room floor

Figure 5 – Sample W-4 – Office table

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Figure 6 – Sample W-5 – Kitchen window sill

Figure 7 – Sample W-6 – former firing range floor

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Figure 8 – Sample W-7 former firing range wooden bookcase

Figure 9 – Sample W-8 – former firing range, top of locker # 47

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Figure 10 – Sample W-9 – Janitor's room

Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report written by Non-Responsive, CIH, as a representative of Federal Occupational Health, U. S. Public Health Service.

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Appendix A

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Nebraska Army National Guard State Points of Contact

Non-Responsive
Occupational Health Nurse

Non-Responsive
State Safety Manager

Armory Points of Contact

Non-Responsive

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Appendix B

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Non-Responsive

Non-Responsive

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft²)
W-1	TM-11-48045	2345	2345
W-2	TM-11-48046	78	78
W-3	TM-11-48047	<10	<10
W-4	TM-11-48048	<10	<91
W-5	TM-11-48049	79	718
W-6	TM-11-48050	515	4682
W-7	TM-11-48051	17	155
W-8	TM-11-48052	68	618
W-9	TM-11-48053	<10	<91
W-10	TM-11-48054		None Detected

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft²	250 µg/ft²	400 µg/ft²

Metals in Wipe Limits
(based on one ft² sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft²	10 µg/ft²

ANALYTE	EXPOSURE LIMITS – (mg/m³)		
	OSHA	NIOSH	ACGIH
Lead	0.05	< 0.1	0.05

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY

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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

Environmental Laboratory
536 S. Clark Street South, Suite 714
Chicago, IL 60605-1521
Tel: (312)-886-0413 Fax: (312)-886-0434

[redacted] Non-Responsive

PROJECT REFERENCE	
Agreement No.:	A 106644
Statement of Work No.:	S 149497
Project No:	P 149591
Agency	ARNG
Proj. Manager	Norfolk Armory
Location (City, State):	Norfolk, Nebraska

For Lab Use Only: 9786
Project /Report #:
Due Date: 11/5/10
Samples Received Chilled? YES / NO (circle one) — NO circled
Conditions on Receipt with Name & Date
Rev. 07/2010

Water Sample Codes[3]
Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Turn Around Time Codes[4]
STD- Standard
3D- Three Day Rush®
WH Weekend/Holiday*

Analysis Requested: Lead

ID #	Sample Type[1]	Sample Media[2]	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (ft²)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested: Lead
W-1	7	5	9-23-10						1			STD	DM-11-48045	✓
W-2	"	"	"						1				48046	↓
W-3	"	"	"						1				48047	↓
W-4	"	"	"						0.11				48048	↓
W-5	"	"	"						0.11				48049	↓
W-6	"	"	"						0.11				48050	↓
W-7	"	"	"						0.11				48051	↓
W-8	"	"	"						0.11				48052	↓
W-9	"	"	"						0.11				48053	↓
W-10	"	"	"		blank				—				48054	↓

Sample Type Codes[1]: 1-Air 2-Water 3-Paint 4-Soil 5-Dust 6-Bulk 7-Wipe 8-Other

Sample Media Codes[2]: 1-Charcoal 2-Matched Weight, 0.8um 3-PVC filter 4-M CE 0.8 um, 37 mm 5-Ghost Wipes™ 6 Passive badge 7. Other

Relinquished By	Date & Time	Received By	Date & Time
[redacted] Non-Responsive			

COMMENTS:

* Applied to organic and inorganic analysis in cases of an emergency only. ® Applied to inorganic and organic samples, SD: Applied to organic and inorganic samples 7-10 business days.

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Appendix C

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Occupational Health Risk Assessment Codes
(Reference: DOD Letter of Instructions 6055 1)

Occupational health risk assessment codes (RACs) are included in this report to quantify health risks to personnel risk assessment is an expression of health hazard severity and mishap probability, described in terms of route of exposure, actual exposure, exposure limit standards, potential health effects, duration of exposure, and number of exposed personnel The following procedure is used to determine the RACs:

STEP 1: This step assesses points to determine the health hazard severity category (HHSC) The HHSC reflects the magnitude of exposure to a physical, chemical, or biological agent and the medical effects of exposure

A Exposure Points Assessed

Alternate Route of Exposure		Exposure Conditions			
		<CT	Occasionally >CT	>CT	>STD
AER Possible	NO	0	3	5	7
	YES	1-2	4	6	8

Notes: 1) AER = Alternate exposure route, such as skin absorption or ingestion 2) CT = DoD component threshold that triggers surveillance actions, such as action level 3) STD = DoD exposure limit, such as TLV or PEL 4) > = Greater than 5) < = Less than 6) ≤ = Less than or equal to

B Medical Effects Points Assessed

Condition	Points
No medical effects, such as nuisance noise and nuisance odor	0
Temporary reversible illness requiring supportive treatment, such as eye irritation and sore throat	1-2
Temporary reversible illness with a variable but limited period of disability, such as metal fume fever	3-4
Permanent, nonsevere illness or loss of capacity, such as permanent hearing loss	5-6
Permanent, severe, disabling, irreversible illness or death, such as asbestosis or lung cancer	7-8

C The HHSC is determined by totaling the points assessed and using the following guide

Total Points*	HHSC
13-16	I
9-12	II
5-8	III
0-4	IV

* Sum of A and B above

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STEP 2: This step uses the following guidelines to assess points to determine the mishap probability category (MPC) for health hazards The probability of mishap reflects the duration of exposure and the number of exposed personnel

A Duration of Exposure Points Assessed

Type of Exposure	Length of Exposure		
	1-8 hr/wk	>8 hr/wk/not continuous	Continuous
Irregular/Intermittent	1-2	4-6	NA
Regular/Periodic	2-3	5-7	8

B Number of Exposed personnel Points Assessed

Number of Exposed Personnel	Points
<5	1-2
5-9	3-4
10-49	5-6
>49	7-8

C The MPC for health hazards is determined by totaling the points assessed and using the following guide:

Total Points*	MPC
14-16	A
10-13	B
5-9	C
<5	D

* Sum of A and B above

STEP 3: The RAC is determined using the following matrix:

HHSC	MPC			
	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
North Platte Armory
North Platte, Nebraska

Survey date: September 22, 2010

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

January 14, 2011

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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Division of Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard Armory located in North Platte, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected for lead dust.

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, “For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces.”

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Six surface wipe samples were collected on representative surfaces in the facility and analyzed for lead dust. Four of six samples (NPW-1, NPW-2, NPW-3 & NPW-6) resulted in significant levels of lead.

When weapons are cleaned, special attention should be given to cleaning up the work area to prevent potential lead contamination from the ammunition.

Surfaces identified as lead-contaminated should be properly cleaned.

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II. Table of Findings and Recommendations

Findings	Recommendations	RAC
Surface Samples		
Six surface wipe samples were collected on representative surfaces in the facility and analyzed for lead dust. Four samples resulted in significant levels of lead.	When weapons are cleaned, special attention should be given to cleaning up the work area to prevent potential lead contamination from ammunition. Surfaces identified as lead-contaminated should be properly cleaned.	3

II. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard North Platte Armory located in North Platte, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the Armory. Non-Responsive, Industrial Hygienist (IH) conducted this survey on September 22, 2010.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

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III. Site Description

The North Platte Armory is the primary workplace for several full-time active-duty Guard personnel. The facility is accessed by the public as a rental hall available to members the local community. The Drill room or Assembly room is also a basketball court and is used by the local high school girl's volleyball team for practice during winter months. There is a firing range located upstairs in the facility. The firing range is no longer used for live-fire practice and is currently utilized as a locker and storage room.

IV. Scope of Work

Lead dust from firing ranges and the cleaning of fire arms can contaminate surfaces within a building. Therefore, six (6) surface wipe samples were collected and analyzed for the presence of lead. A surface area of 16-144 square inches was wiped with a Ghost Wipe, place in a plastic coin tube and shipped to the FOH Analytical Laboratory in Chicago, Illinois. The sample was then analyzed by flame atomic absorption spectrophotometer (AA) according to OSHA Analytical Method ID-121.

V. Findings, Discussion, and Recommendations

Surface Samples

Results indicate four of six samples are "significant".

The results are contained in Table 1.

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Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
North Platte Armory
North Platte, Nebraska
September 22, 2010

Sample Number	Location	Lead Concentration ug/ft^2
NPW-1	Shooting range, floor	**2534**
NPW-2	Shooting range, brick wall	**155455**
NPW-3	Mezzanine hall, top of wall box	**500**
NPW-4	Assembly room, floor	<10
NPW-5	Vault, floor	103
NPW-6	Assembly room, new light fixture shields	**845**

Note:
1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

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Recommendations:

When weapons are cleaned, special attention should be given to cleaning up the work area to prevent potential lead contamination from the ammunition.

Clean all surfaces identified as lead-contaminated that are regularly accessed by minors or members of the public. Use of the firing range as a locker room should be discontinued until the space can be properly abated for lead.

Wipe sample locations

Figure 1– Sample NPW-1

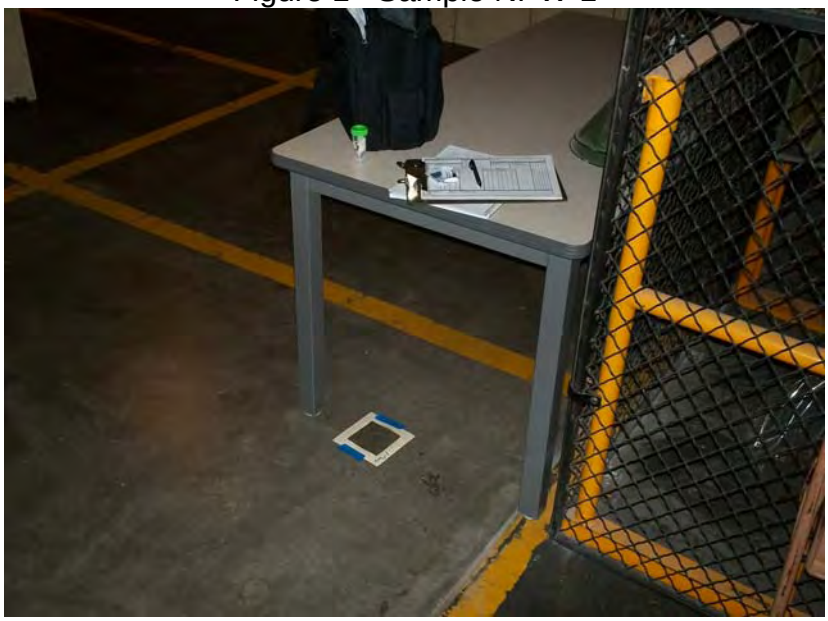

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Figure 2– Sample NPW-2

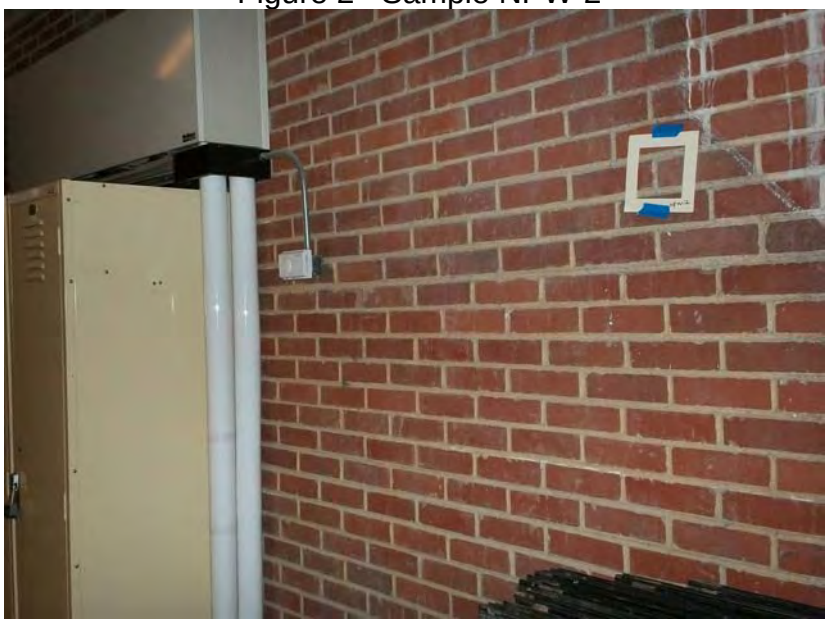

Figure 3– Sample NPW-3

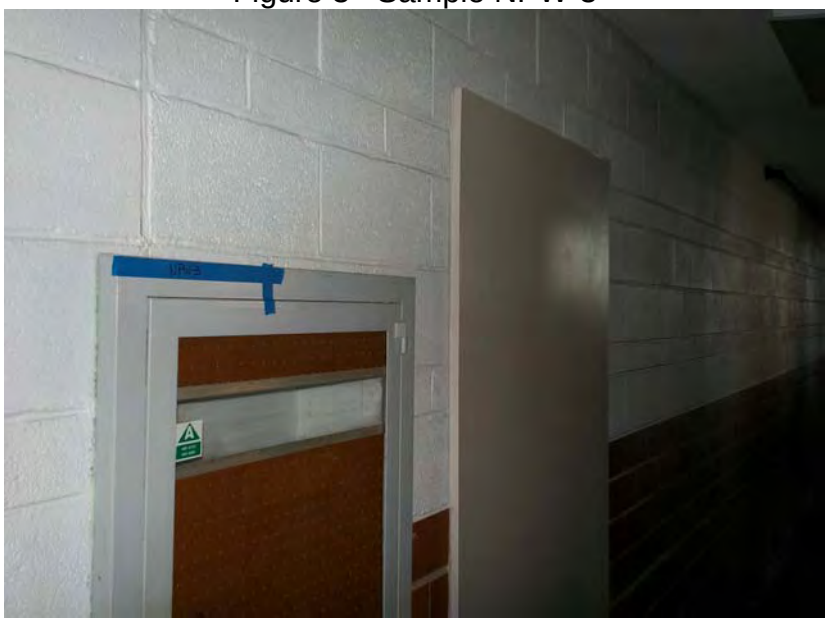

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Figure 4– Sample NPW-4

Figure 5– Sample NPW-5

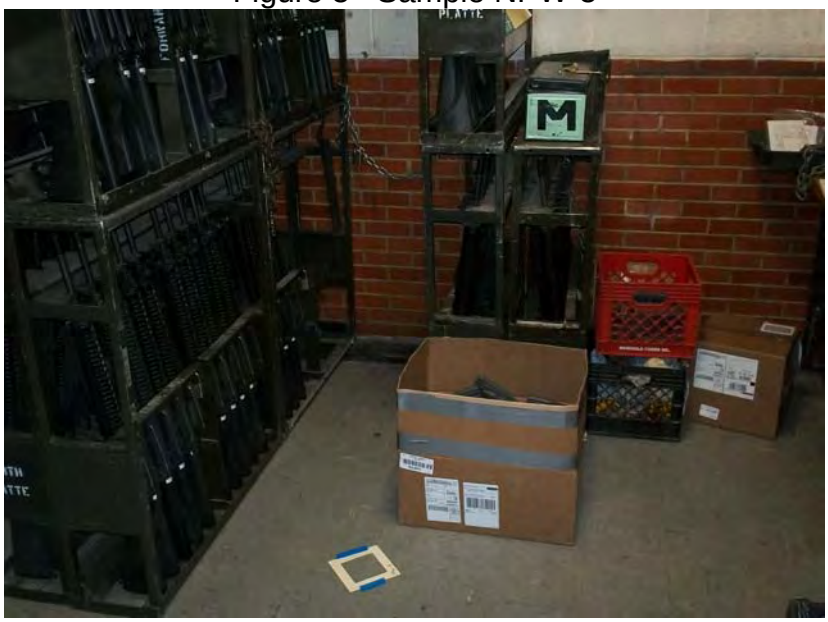

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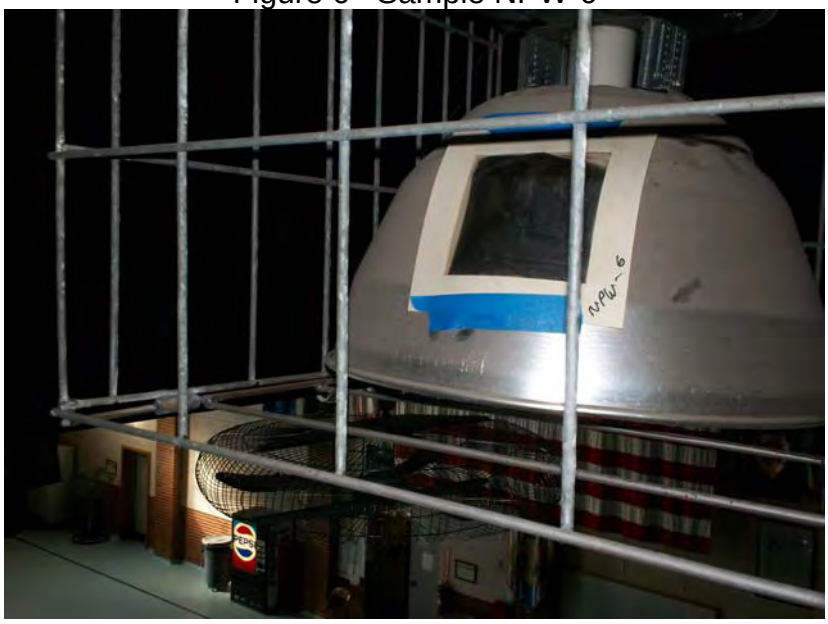
Figure 6– Sample NPW-6



Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report was written by Non-Responsive, IH, as a representative of Federal Occupational Health, U. S. Public Health Service.

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Appendix A

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Nebraska Army National Guard State Points of Contact

Non-Responsive
State Safety Manager

Armory Point of Contact

Non-Responsive

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Appendix B

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Occupational Health Risk Assessment Codes
(Reference: DOD Letter of Instructions 6055 1)

Occupational health risk assessment codes (RACs) are included in this report to quantify health risks to personnel risk assessment is an expression of health hazard severity and mishap probability, described in terms of route of exposure, actual exposure, exposure limit standards, potential health effects, duration of exposure, and number of exposed personnel The following procedure is used to determine the RACs:

STEP 1: This step assesses points to determine the health hazard severity category (HHSC) The HHSC reflects the magnitude of exposure to a physical, chemical, or biological agent and the medical effects of exposure

A Exposure Points Assessed

Alternate Route of Exposure		Exposure Conditions			
		<CT	Occasionally >CT	>CT	>STD
AER Possible	NO	0	3	5	7
	YES	**1-2**	4	6	8

Notes: 1) AER = Alternate exposure route, such as skin absorption or ingestion 2) CT = DoD component threshold that triggers surveillance actions, such as action level 3) STD = DoD exposure limit, such as TLV or PEL 4) > = Greater than 5) < = Less than 6) ≤ = Less than or equal to

B Medical Effects Points Assessed

Condition	Points
No medical effects, such as nuisance noise and nuisance odor	0
Temporary reversible illness requiring supportive treatment, such as eye irritation and sore throat	1-2
Temporary reversible illness with a variable but limited period of disability, such as metal fume fever	3-4
Permanent, nonsevere illness or loss of capacity, such as permanent hearing loss	**5-6**
Permanent, severe, disabling, irreversible illness or death, such as asbestosis or lung cancer	7-8

C The HHSC is determined by totaling the points assessed and using the following guide

Total Points*	HHSC
13-16	I
9-12	II
5-8	**III**
0-4	IV

* Sum of A and B above

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STEP 2: This step uses the following guidelines to assess points to determine the mishap probability category (MPC) for health hazards The probability of mishap reflects the duration of exposure and the number of exposed personnel

A Duration of Exposure Points Assessed

Type of Exposure	Length of Exposure		
	1-8 hr/wk	>8 hr/wk/not continuous	Continuous
Irregular/Intermittent	1-2	4-6	NA
Regular/Periodic	2-3	5-7	8

B Number of Exposed personnel Points Assessed

Number of Exposed Personnel	Points
<5	1-2
5-9	3-4
10-49	5-6
>49	7-8

C The MPC for health hazards is determined by totaling the points assessed and using the following guide:

Total Points*	MPC
14-16	A
10-13	B
5-9	C
<5	D

* Sum of A and B above

STEP 3: The RAC is determined using the following matrix:

HHSC	MPC			
	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

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Appendix C

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS/Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention: Non-Responsive

Submitted By: Non-Responsive

Reference Data: Lead
Sampling Site: NGB: North Platte, NE
Sample Type: Ghost Wipe(s)®
Method Reference: OSHA ID-121
Project ID: Project 9752
DFOH Lab Nos.: TM-10-47778 through TM-10-47783
Date Received: 09/30/10
Data Analyzed: 10/07/10 thru 10/08/10
Date Issued: 10/12/10

The wipe samples were microwave digested using a CEM MDS-2000. The samples were run on a Perkin Elmer AAnalyst 200 Flame Atomic Absorption Spectrophotometer.

General Lab Comments:
All quality control criteria have been met.
* All samples received in condition acceptable for analysis unless otherwise noted.
Sample results have not been corrected for contamination based on the field blank or other analytical blank unless otherwise noted.

Analytical results are given in the enclosed table. If you have any questions about these results, feel free to phone the Laboratory at (312) 886-0413.

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
WWW.AIHAACCREDITEDLABS.ORG
LAB # 102643

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft^2)
NPW-1	TM-10-47778	279	2534
NPW-2	TM-10-47779	17100	155455
NPW-3	TM-10-47780	55	500
NPW-4	TM-10-47781	<10	<10
NPW-5	TM-10-47782	11	103
NPW-6	TM-10-47783	93	845

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft^2	250 µg/ft^2	400 µg/ft^2

Lead in Wipe Limits
(based on one ft^2 sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft^2	10 µg/ft^2

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Te

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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

Environmental Laboratory
536 S. Clark Street South, Suite 714
Chicago, IL 60605-1521
Tel: (312)-886-0413 Fax: (312)-886-0434
Attn: [redacted]

PROJECT REFERENCE

Agreement No.:	A 106644
Statement of Work No.:	S 149497
Project No:	P 149591
Agency	ARNG, NE
Proj. Manager	
Location (City, State):	North Platte, NE

For Lab Use Only 9752
Project /Report #:
Due Date: 10/12/10
Samples Received Chilled? YES NO (circle one)
Conditions on Receipt with Name & Date
Rev. 07/2010

Water Sample Codes[3]
Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH
Soln

Turn Around Time Codes[4]
STD- Standard
3D- Three Day Rush@
WH Weekend/Holiday*

Sample ID #	Type[1]	Media[2]	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (ft²)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested: Wipe
NPW-1	5	5	9/22/10	1600	Shooting Range Floor				16			STD	DM-10-47778	X
NPW-2				1605	Shooting Range, Brick Wall				16				47779	X
NPW-3				1610	Mezzanine Hall, Top of wall box				16				47780	X
NPW-4				1620	Assembly Rm Floor				144				47781	X
NPW-5				1625	Vault Floor				16				47782	X
NPW-6				1650	Assembly Rm, Nav light fixture shields (all)				16				47783	X
~~NPW-7~~				1655	Blank									X

Sample Type Codes[1]
1-Air 2-Water 3-Paint 4-Soil 5-Dust
6-Bulk 7-Wipe 8 - Other

Sample Media Codes[2]
1-Charcoal 2-Matched Weight, 0.8um
3-PVC filter 4-M CE 0.8 um , 37 mm
5 -Ghost Wipes™ 6. Passive badge
7. Other

Relinquished By	Date & Time	Received By	Date & Time
[redacted]			

COMMENTS: Vault not accessible — Blank sample lost in transit

* Applied to organic and inorganic analysis in cases of an emergency only. @ Applied to inorganic and organic samples, SD: Applied to organic and inorganic samples 7-10 business days.

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Surface Lead Monitoring Survey

At

Nebraska Army National Guard
Armory
North Platte, Nebraska

Survey date: October 16, 2012

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office
NGB-AVN-S1

Performed by

U.S. Public Health Service
Federal Occupational Health
Denver, Colorado

January 24, 2013

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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard Army, North Platte Armory located in North Platte, Nebraska. This survey was conducted in order to identify lead levels on surfaces within the facility.

The armory consists of a drill room or assembly hall, offices, classrooms, locker room, kitchen, and break room. There is a firing range in the building but it is closed. Weapons are cleaned in the Training room. The Drill room is available to the public for special events. Children are present for some of the events.

Five surface wipe samples were collected and analyzed for lead contamination in the facility. Two of the samples collected on the Drill room floor were below the NGB Industrial Hygiene surface limit of 40 ug/ft^2 for child occupied areas. Three other wipe samples collected in an office, the Training room, and on brick on the second floor above the Drill room were below the NGB Industrial Hygiene surface limit of 200 ug/ft^2 in areas of the facility not open to the public.

Although the floor in the Drill room did not have elevated levels of lead, as a precaution, continue to clean horizontal surfaces where weapons are cleaned and stored. (RAC 3)

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II. Introduction

Monitoring of lead on workplace surfaces was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard Army, North Platte Armory located at 1700 North Jeffers in North Platte, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. Non-Responsive, Certified Industrial Hygienist (CIH) conducted this survey on October 16, 2012.

The purpose of the site visit was to collect surface wipe samples in the building for the evaluation of lead contamination. FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

III. Site Description

The armory consists of a drill room or assembly hall, offices, classrooms, locker room, kitchen, and break room. There is a firing range in the building but it is closed. Weapons are cleaned in the Training room. The Drill room is available to the public for special events. Children are present for some of the events.

IV. Assessment Criteria

NBG Industrial Hygiene has adopted the sampling procedures and limits for lead dust published in NG Pam 420-15, *Guidelines and Procedures for Rehabilitation and Conversion on Indoor Firing Ranges*, November 3, 2006. For purposes of this report, any surface lead level that exceeds 200 micrograms per square foot (ug/ft^2) in the facility is considered significant. NG Pam 420-15 may be found at: http://www.ngbpdc.ngb.army.mil/pubs/420/ngpam420_15.pdf.

Also, the NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, “For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant.

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V. Findings, Discussion, and Recommendations

Wipe Sampling Method

Surface samples were collected using Environmental Express Ghost Wipes. Surface wipe templates that encompassed either 1 square foot (child occupied areas) or 0.11 square foot (other work areas) of surface area were used to collect samples. For each surface sample collected, a new set of gloves and a new numbered template was used. The entire template area was wiped using an "S" configured motion. The wipe was then folded in half and the template area was wiped using an "S" motion in a direction perpendicular to the first. The wipe was folded again and the perimeter of the area was wiped. The wipe was placed into a plastic tube, capped, and the samples were sent to the FOH Laboratory in Chicago, Illinois. Samples were hot plate digested and analyzed for lead with a Perkin Elmer 200 fame atomic absorption spectrophotometer using the OSHA ID-121 Analytical Method.

Surface Wipe Samples

Five surface wipe samples were collected and analyzed for lead contamination in the facility (Figures 1 - 5). All five samples were below the NGB Industrial Hygiene surface limit of 200 ug/ft^2. Two samples collected in the Drill room on the floor were below the NGB Industrial Hygiene surface limit of 40 ug/ft^2. The results are contained in Table 1.

Table 1
Area Wipe Sampling Results for Lead
Nebraska Army National Guard
North Platte Armory
October 16, 2012

Sample Number	Location	Lead ug/ft^2
W-1	Office on file cabinet	<91
W-2	Drill room floor on south-east end	22
W-3	Drill room floor on north-west end	18
W-4	2nd floor above Drill room on brick	103
W-5	Training room on table (weapons cleaned)	<91
W-6	blank	ND

Note: 1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

Recommendations

Although the floor in the Drill room did not have elevated levels of lead, as a precaution, continue to clean horizontal surfaces where weapons are cleaned and stored. (RAC 3)

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Figure 1 – Wipe sample W-1

Figure 2 – Wipe sample W-2

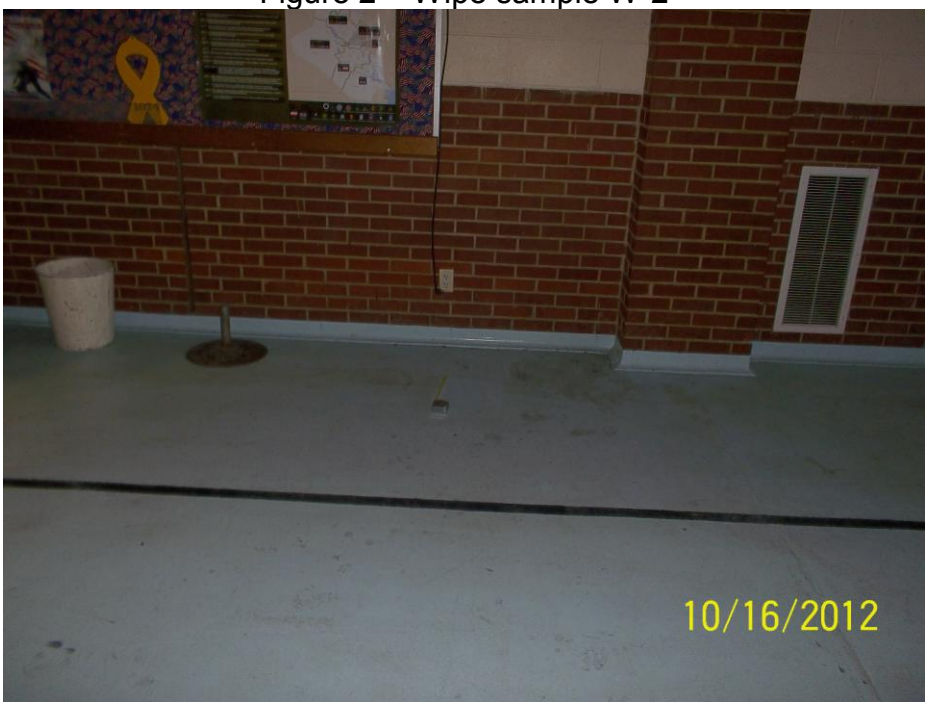

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Figure 3 – Wipe sample W-3

Figure 4 – Wipe sample W-4

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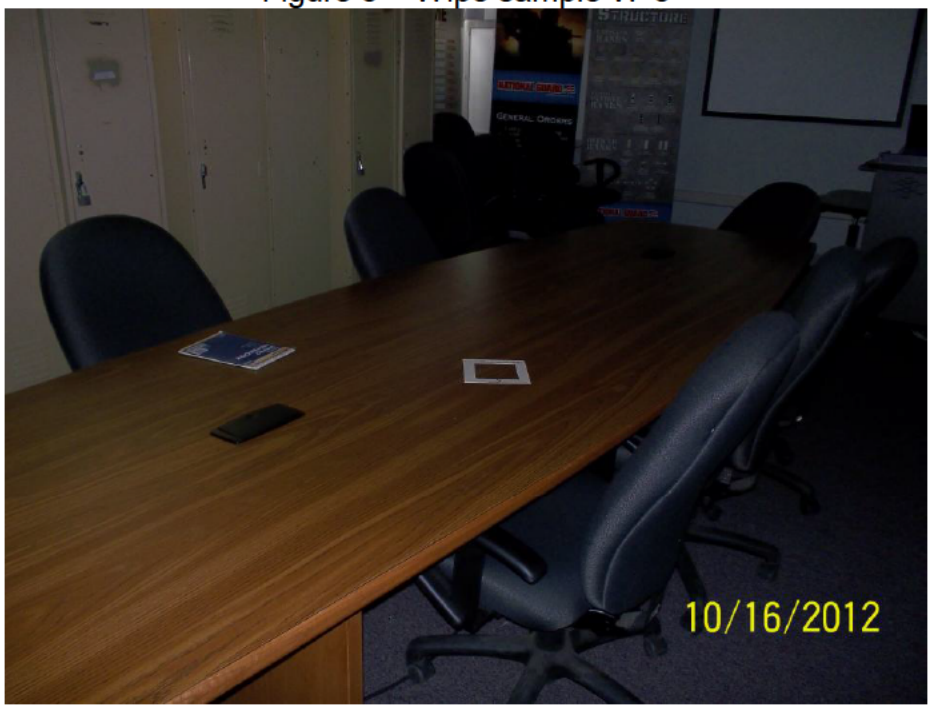
Figure 5 – Wipe sample W-5



Technical Assistance: This report was written by Non-Responsive as a representative of FOH, USPHS. Non-Responsive, Regional Industrial Hygienist at the NGB Region West Industrial Hygiene Office, reviewed and approved this report. For technical assistance regarding information found in this report or the performed survey, please contact Non-Resp [redacted].

Reviewed by:
Non-Responsive

Non-Responsive

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Appendix A

Nebraska Army National Guard State Points of Contact

Non-Responsive

North Platte Armory Point of Contact

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Appendix B

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS / Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention: Non-Responsive

Submitted By:

Reference Data: Lead

Sampling Site:	NGB: North Platte, NE
Sample Media:	Ghost Wipe(s)®
Method Reference:	OSHA ID-121
Project ID:	Project 10760
DFOH Lab Nos.:	TM-13-58086 through TM-13-58091
Date Received:	10/23/12
Data Analyzed:	11/05/12 - 11/06/12
Date Issued:	11/06/12

The wipe samples were hot plate digested. The samples were run on a Perkin Elmer 200 flame atomic absorption spectrophotometer (AA).

General Lab Comments:
All quality control criteria have been met.
* All samples received in condition acceptable for analysis unless otherwise noted.
** Sample results have not been corrected for contamination based on the field blank or other analytical blank unless otherwise noted.

Analytical results are given on the enclosed tables. Results relate only to items tested. If you have any questions about these results, feel free to phone the Laboratory at (312) 886-0413.

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY
LAB# 100543

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft²)
W1	TM-13-58086	<10	<91
W2	TM-13-58087	22	22
W3	TM-13-58088	18	18
W4	TM-13-58089	11	103
W5	TM-13-58090	<10	<10
W6**	TM-13-58091	<10	None Detected

Surface Wipe Sampling Criteria

Metal	Acceptable Surface Level µg/ft	Basis for Criteria
Lead	250	EPA TSCA 40 CFR 745 and HUD Window Sills

Metals in Wipe Limits
(based on one ft² sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft²	10 µg/ft²

Non-Responsive

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AIHA LAP, LLC
ACCREDITED LABORATORY
LAB # 100643

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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

Environmental Laboratory
536 S. Clark Street South, Suite 714
Chicago, IL 60605-1521
Non-Responsive [redacted]

PROJECT REFERENCE	
Agreement No.:	A 106644
Statement of Work No.:	S 163833
Project No:	P 165224
Agency/Project Name:	ARNG Armory
Location (City, State):	North Platte NE

For Lab Use Only
Project /Report #: 10760
Due Date: 10/31/12
Samples Received Chilled? YES / NO (circle one) — NO circled
Conditions on Receipt with Name & Date

Water Sample Codes[3]
Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Turn Around Time Codes[4]
STD- Standard
R- Rush®
2D- Two Day Rush*
ND- Next Day Rush*®
SD- Same Day Rush*®
WH- Weekend/Holiday*

Analysis Requested: Lead

ID #	Sample Type[1]	Sample Media[1]	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (in²)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested
W-1	7	12	Oct	16					16			STD	TM-13-58086	Lead
W-2									144				58087	
W-3									144				58088	
W-4									16				58089	
W-5									16				58090	
W-6									—				58091	

Sample Type Codes[1]
1-Air 2-Water 3-Paint 4-Soil 5-Dust
6-Bulk 7-Wipe 8-Contact Plate
9-Tape 10-Spore Trap (Zefon & others)
11-Other

Sample Media Codes[1]
1-Charcoal 2-XAD 3-Matched Weight
4-Preweighted 5-MEA 6-CCA 7-R2A/TSA
8-Air-O-Cell Cassette 9-MCE Cassette (0.45)
10-MCE Cassette (0.8) 11-MCE Filter 12-Other

Relinquished By / Date & Time / Received By / Date & Time: Non-Responsive [redacted]

COMMENTS: gause pad with alcohol and water

* Applied to non-viable microbiological samples only.® Applied to asbestos samples, SD: 2-hour PLM/PCM, 6-hour TEM; ND: 24-hour; R: 3-5 business days.

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Appendix C

Occupational Health Risk Assessment Codes

(Reference: DOD Letter of Instructions 6055 1)

Occupational health risk assessment codes (RACs) are included in this report to quantify health risks to personnel risk assessment is an expression of health hazard severity and mishap probability, described in terms of route of exposure, actual exposure, exposure limit standards, potential health effects, duration of exposure, and number of exposed personnel The following procedure is used to determine the RACs:

STEP 1: This step assesses points to determine the health hazard severity category (HHSC) The HHSC reflects the magnitude of exposure to a physical, chemical, or biological agent and the medical effects of exposure

A Exposure Points Assessed

Alternate Route of Exposure		Exposure Conditions			
		<CT	Occasionally >CT	>CT	>STD
AER Possible	NO	0	3	5	7
	YES	1-2	4	6	8

Notes: 1) AER = Alternate exposure route, such as skin absorption or ingestion 2) CT = DoD component threshold that triggers surveillance actions, such as action level 3) STD = DoD exposure limit, such as TLV or PEL 4) > = Greater than 5) < = Less than 6) ≤ = Less than or equal to

B Medical Effects Points Assessed

Condition	Points
No medical effects, such as nuisance noise and nuisance odor	0
Temporary reversible illness requiring supportive treatment, such as eye irritation and sore throat	1-2
Temporary reversible illness with a variable but limited period of disability, such as metal fume fever	3-4
Permanent, nonsevere illness or loss of capacity, such as permanent hearing loss	5-6
Permanent, severe, disabling, irreversible illness or death, such as asbestosis or lung cancer	7-8

C The HHSC is determined by totaling the points assessed and using the following guide

Total Points*	HHSC
13-16	I
9-12	II
5-8	III
0-4	IV

* Sum of A and B above

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STEP 2: This step uses the following guidelines to assess points to determine the mishap probability category (MPC) for health hazards The probability of mishap reflects the duration of exposure and the number of exposed personnel

A Duration of Exposure Points Assessed

Type of Exposure	Length of Exposure		
	1-8 hr/wk	>8 hr/wk/not continuous	Continuous
Irregular/Intermittent	1-2	4-6	NA
Regular/Periodic	2-3	5-7	8

B Number of Exposed personnel Points Assessed

Number of Exposed Personnel	Points
<5	1-2
5-9	3-4
10-49	5-6
>49	7-8

C The MPC for health hazards is determined by totaling the points assessed and using the following guide:

Total Points*	MPC
14-16	A
10-13	B
5-9	C
<5	D

* Sum of A and B above

STEP 3: The RAC is determined using the following matrix:

HHSC	MPC			
	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

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Surface Lead Monitoring Survey Report

At

Nebraska Army National Guard
Scotts Bluff Armory
Scotts Bluff, Nebraska

Survey date: September 23, 2010

For

Department of the Army
National Guard Bureau
Region West Industrial Hygiene Office

Performed by
U.S. Public Health Service
Federal Occupational Health

January 14, 2011

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I. Executive Summary

At the request of the National Guard Bureau Region West Industrial Hygiene Office, field personnel representing the U.S. Public Health Service, Division of Federal Occupational Health (FOH) conducted surface lead monitoring at the Nebraska Army National Guard Armory located in Scotts Bluff, Nebraska. This survey was conducted as part of the ARNG occupational safety and health program to evaluate potential exposure to lead on facility surfaces. Surface wipe samples were collected for lead dust.

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, “For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces.”

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

Eight (8) surface wipe samples were collected on representative surfaces in the facility and analyzed for lead dust. Three of eight samples (SBW-1, SBW-4 & SBW-6) resulted in significant levels of lead.

When weapons are cleaned, special attention should be given to cleaning up the work area to prevent potential lead contamination from the ammunition. Surfaces identified as lead-contaminated should be properly cleaned with priority given to those areas where minors and members of the public see regular access.

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II. Table of Findings and Recommendations

Findings	*Recommendations*	*RAC*
Surface Samples		
Eight (8) surface wipe samples were collected on representative surfaces in the facility and analyzed for lead dust. Three samples resulted in significant levels of lead.	When weapons are cleaned, special attention should be given to cleaning up the work area to prevent potential lead contamination from ammunition. Surfaces identified as lead-contaminated should be properly cleaned with priority given to those areas where minors and members of the public see regular access.	3

II. Introduction

A surface lead monitoring survey was conducted by the U.S. Public Health Service (USPHS) Federal Occupational Health (FOH) at the Nebraska Army National Guard Scotts Bluff Armory located in Scotts Bluff, Nebraska. This work was conducted under the Interagency Agreement between the USPHS, FOH and the West Region of the Army National Guard. This survey was conducted in order to identify lead levels on surfaces within the Armory. Non-Responsive, Industrial Hygienist (IH) conducted this survey on September 23, 2010.

FOH conducted this survey in the interest of preventing employee illness and in meeting legal obligations where applicable. Based on information provided, every effort was made to conduct a comprehensive survey covering the parameters considered. Results and recommendations are based on information provided, field measurements, and conditions observed during the survey.

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III. Site Description

The Scotts Bluff Armory is the primary workplace for several full-time active-duty Guard personnel. The facility sees regular use by the local public for receptions and weekly indoor activity use during the winter. There is a firing range on located upstairs in the building. The firing range is no longer used for live-fire practice but is used as a locker room by Guard personnel.

Figure 1

IV. Scope of Work

Lead dust from firing ranges and the cleaning of fire arms can contaminate surfaces within a building. Therefore, eight (8) surface wipe samples were collected and analyzed for the presence of lead. A surface area of 16-144 square inches was wiped with a Ghost Wipe, place in a plastic coin tube and shipped to the FOH Analytical Laboratory in Chicago, Illinois. The sample was then analyzed by flame atomic absorption spectrophotometer (AA) according to OSHA Analytical Method ID-121.

V. Findings, Discussion, and Recommendations

Surface Samples

Results indicate three of eight samples are “significant”.

The results are contained in Table 1.

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Table 1
Area Wipe Sampling Results for Lead Dust
Nebraska Army National Guard
Scotts Bluff Armory
Scotts Bluff, Nebraska
September 23, 2010

Sample Number	Location	Lead Concentration ug/ft^2
SBW-1	Shooting range, storage cage floor	**7591**
SBW-2	Upstairs classroom, shelf top	<10
SBW-3	Stairwell, floor	107
SBW-4	Vault room, safe drawer, top	**258**
SBW-5	Storage room, shelf	<91
SBW-6	Assembly room, HVAC unit back/top	**1915**
SBW-7	Assembly room, floor	<10
SBW-8	Commander's office	<91
SBW-9	Field Blank	ND

Note:
1) ug/ft^2= micrograms per square foot of surface area. 2) **Bold** indicates that concentration was "significant."

Assessment Criteria

The NGB-ARS Memorandum for the Chiefs of Staff dated February 2, 2006 provides guidance for potential lead hazard exposure in Army National Guard child occupied facilities. The memorandum defines a child occupied facility as a building, or portion of a building, visited on a regular basis by the same child, six years of age or under. Child occupied facilities may include, but are not limited to, day-care centers, preschools, and kindergarten classrooms. The memorandum states that, "For all areas used/occupied on a regular basis by children ages six and under clean all floors accessible to said children to the EPA dust-lead standard of 40 ug/ft^2. Clean all other surfaces in accordance with USACHPPM recommendations for lead in dust of 200 ug/ft^2 on frequent contact surfaces."

For purposes of this report any surface lead level that exceeds 40 ug/ft^2 in a child occupied area is considered significant. Any surface lead level that exceeds 200 ug/ft^2 in any other area of the armory is considered significant.

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Recommendations:

When weapons are cleaned, special attention should be given to cleaning up the work area to prevent potential lead contamination from the ammunition. Surfaces identified as lead-contaminated should be properly cleaned with priority given to those areas where minors and members of the public see regular access.

Wipe sample locations

Figure 2 – Sample SBW-1

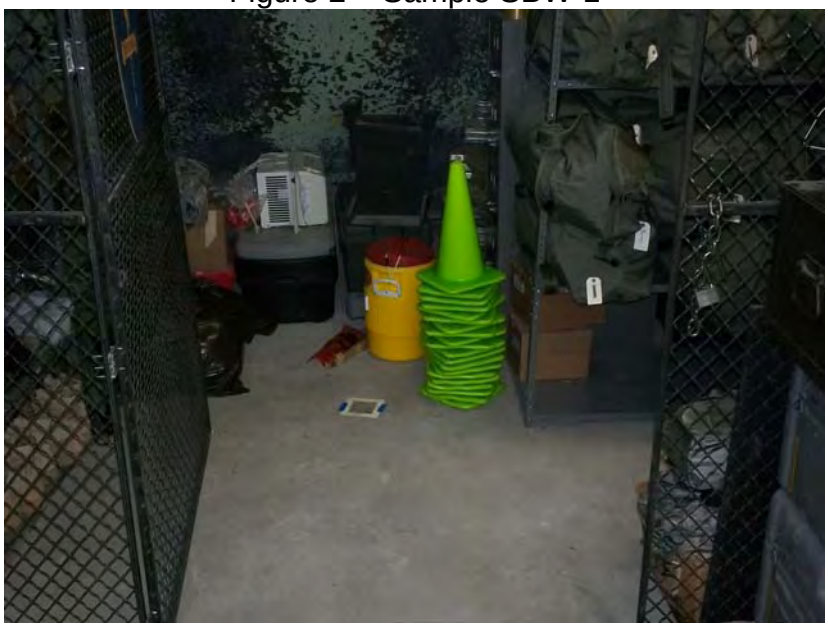

Figure 3 – Sample SBW-2

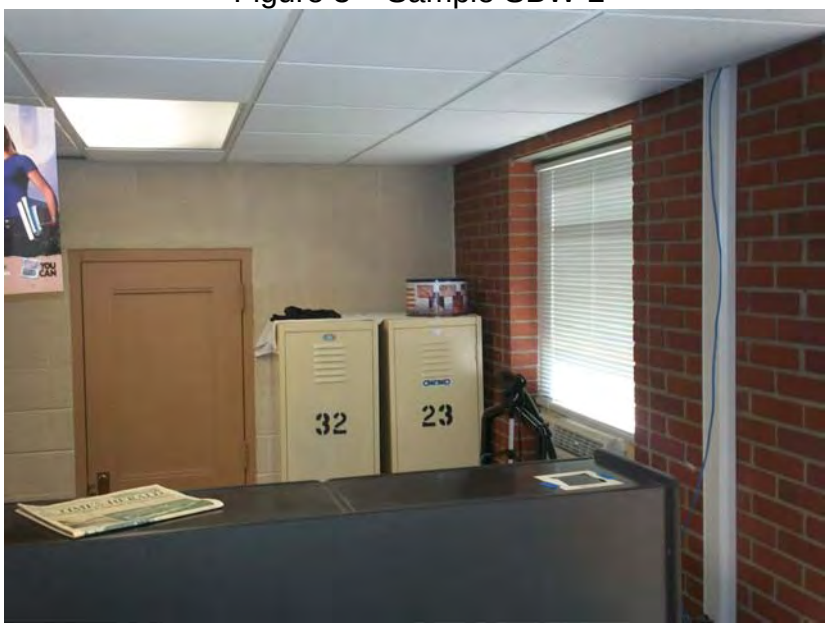

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Figure 4 – Sample SBW-3

Figure 5 – Sample SBW-4

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Figure 6 – Sample SBW-5

Figure 7 – Sample SBW-6

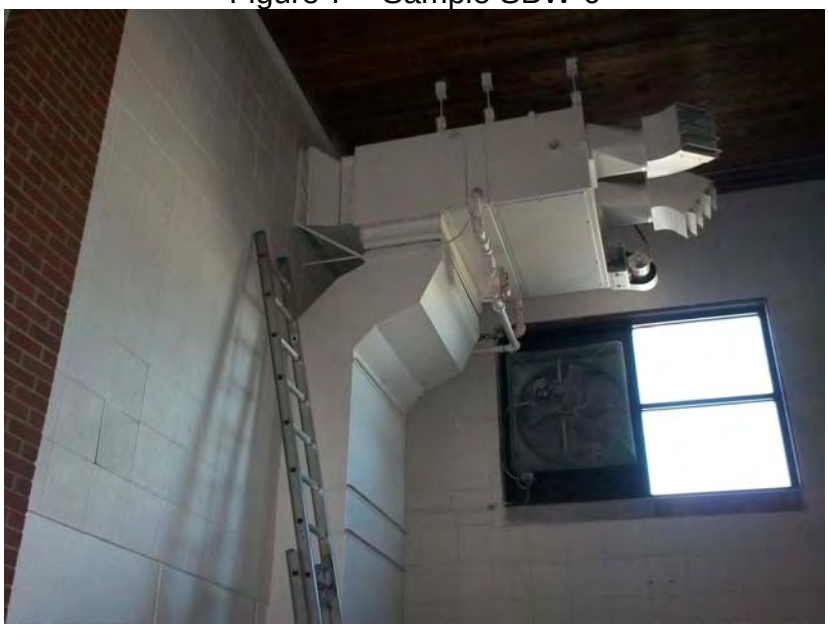

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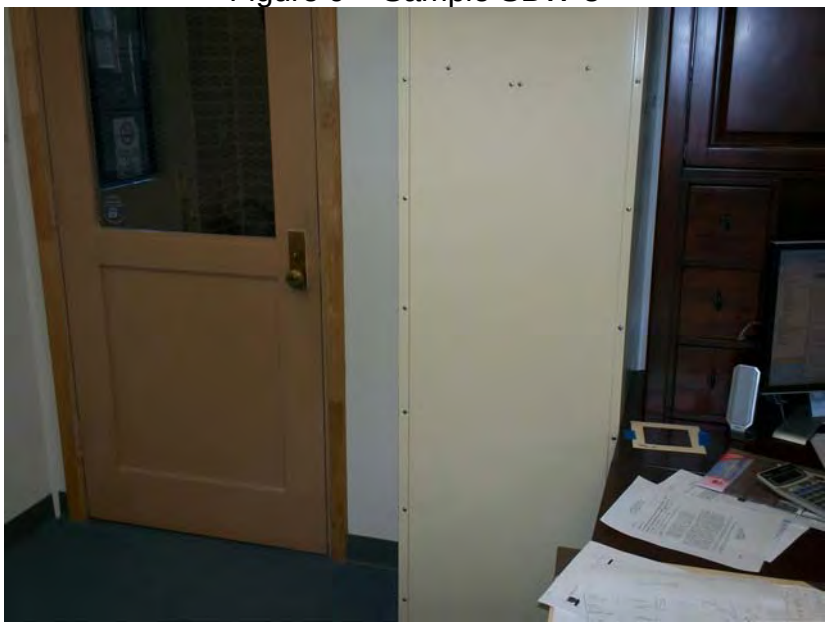
Figure 8 – Sample SBW-7

Figure 9 – Sample SBW-8



Technical Assistance: For technical assistance regarding information found in this report or the performed survey please contact the Regional Industrial Hygienist at the NGB ARNG Region West Industrial Hygiene Office.

This report written by Non-Responsive, IH, as a representative of Federal Occupational Health, U. S. Public Health Service.

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Appendix A

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Nebraska Army National Guard State Points of Contact

Non-Responsive
State Safety Manager

Armory Points of Contact

Non-Responsive

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Appendix B

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Occupational Health Risk Assessment Codes
(Reference: DOD Letter of Instructions 6055 1)

Occupational health risk assessment codes (RACs) are included in this report to quantify health risks to personnel risk assessment is an expression of health hazard severity and mishap probability, described in terms of route of exposure, actual exposure, exposure limit standards, potential health effects, duration of exposure, and number of exposed personnel The following procedure is used to determine the RACs:

STEP 1: This step assesses points to determine the health hazard severity category (HHSC) The HHSC reflects the magnitude of exposure to a physical, chemical, or biological agent and the medical effects of exposure

A Exposure Points Assessed

Alternate Route of Exposure		Exposure Conditions			
		<CT	Occasionally >CT	>CT	>STD
AER Possible	NO	0	3	5	7
	YES	**1-2**	4	6	8

Notes: 1) AER = Alternate exposure route, such as skin absorption or ingestion 2) CT = DoD component threshold that triggers surveillance actions, such as action level 3) STD = DoD exposure limit, such as TLV or PEL 4) > = Greater than 5) < = Less than 6) ≤ = Less than or equal to

B Medical Effects Points Assessed

Condition	Points
No medical effects, such as nuisance noise and nuisance odor	0
Temporary reversible illness requiring supportive treatment, such as eye irritation and sore throat	1-2
Temporary reversible illness with a variable but limited period of disability, such as metal fume fever	3-4
Permanent, nonsevere illness or loss of capacity, such as permanent hearing loss	**5-6**
Permanent, severe, disabling, irreversible illness or death, such as asbestosis or lung cancer	7-8

C The HHSC is determined by totaling the points assessed and using the following guide

Total Points*	HHSC
13-16	I
9-12	II
5-8	**III**
0-4	IV

* Sum of A and B above

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STEP 2: This step uses the following guidelines to assess points to determine the mishap probability category (MPC) for health hazards The probability of mishap reflects the duration of exposure and the number of exposed personnel

A Duration of Exposure Points Assessed

Type of Exposure	Length of Exposure		
	1-8 hr/wk	>8 hr/wk/not continuous	Continuous
Irregular/Intermittent	1-2	4-6	NA
Regular/Periodic	2-3	5-7	8

B Number of Exposed personnel Points Assessed

Number of Exposed Personnel	Points
<5	1-2
5-9	3-4
10-49	5-6
>49	7-8

C The MPC for health hazards is determined by totaling the points assessed and using the following guide:

Total Points*	MPC
14-16	A
10-13	B
5-9	C
<5	D

* Sum of A and B above

STEP 3: The RAC is determined using the following matrix:

HHSC	MPC			
	A	B	C	D
I	1	1	2	3
II	1	2	3	4
III	2	3	4	5
IV	3	4	5	5

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Appendix C

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

ANALYTICAL REPORT

Submitted To: USPHS/Federal Occupational Health
Denver Federal Center
Denver, CO 80225

Attention: Non-Responsive

Submitted By: Non-Responsive

Reference Data: Lead
Sampling Site: NGB: Scotts Bluff, NE
Sample Type: Ghost Wipe(s)®
Method Reference: OSHA ID-121
Project ID: Project 9746
DFOH Lab Nos.: TM-10-47733 through TM-10-47741
Date Received: 09/30/10
Data Analyzed: 10/07/10 thru 10/08/10
Date Issued: 10/12/10

The wipe samples were microwave digested using a CEM MDS-2000. The samples were run on a Perkin Elmer AAnalyst 200 Flame Atomic Absorption Spectrophotometer.

General Lab Comments:
All quality control criteria have been met.
* All samples received in condition acceptable for analysis unless otherwise noted.
Sample results have not been corrected for contamination based on the field blank or other analytical blank unless otherwise noted.

Analytical results are given in the enclosed table. If you have any questions about these results, feel free to phone the Laboratory at (312) 886-0413.

Non-Responsive

AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
WWW.AIHAACCREDITEDLABS.ORG
LAB # 102643

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FOH ENVIRONMENTAL LABORATORY

536 S. CLARK STREET CHICAGO, IL 60605 PHONE: (312) 886-0413 FAX: (312) 886-0434

LEAD on WIPE RESULTS

SAMPLE NUMBER*	LABORATORY NUMBER	CONCENTRATION (µg)	CONCENTRATION (µg/ft^2)
SBW-1	TM-10-47733	835	7591
SBW-2	TM-10-47734	<10	<91
SBW-3	TM-10-47735	12	107
SBW-4	TM-10-47736	28	258
SBW-5	TM-10-47737	<10	<91
SBW-6	TM-10-47738	1915	1915
SBW-7	TM-10-47739	<10	<10
SBW-8	TM-10-47740	<10	<91
SBW-9**	TM-10-47741	<10	None Detected

AGENCY	FLOORS	INTERIOR WINDOW SILLS	WINDOW TROUGHS
EPA	40 µg/ft^2	250 µg/ft^2	400 µg/ft^2

Lead in Wipe Limits
(based on one ft^2 sampled area)

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	5.0 µg/ft^2	10 µg/ft^2

Non-Responsive

AIHA LAP, LLC
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ISO/IEC 17025:2005
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US PUBLIC HEALTH SERVICE, FEDERAL OCCUPATIONAL HEALTH CHAIN-OF-CUSTODY / FIELD DATA SHEET

Environmental Laboratory
536 S. Clark Street South, Suite 714
Chicago, IL 60605-1521
Tel: (312)-886-0413 Fax: (312)-886-0434
Attn: [redacted]
Name
Addr
Phon
Emai

Non-Responsive

PROJECT REFERENCE

Agreement No.:	A 106644
Statement of Work No.:	S 149497
Project No:	P 149591
Agency	ARNG, NE
Proj. Manager	
Location (City, State):	Scotts Bluff, NE

For Lab Use Only 9746
Project /Report #:
Due Date: 10/7/10
Samples Received Chilled? YES (NO) (circle one)
Conditions on Receipt with Name & Date
Rev. 07/2010

Water Sample Codes[3]
Container Types:
P-Plastic, G-Glass, V-VOC
Preservatives:
A-None, B-H_2SO_4,
C-HNO_3, D-NaOH
50/A

Turn Around Time Codes[4]
STD- Standard
3D- Three Day Rush@
WH Weekend/Holiday*

Analysis Requested
Pb wipe

Sample ID #	Type[1]	Media[2]	Collected Date	Collected Time	Sample Location / Description	Air Flow (LPM)	Air Time (Min.)	Air Volume (Liters)	Wipe Area (ft²)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Pb wipe
SBW-1	5	5	9/23/10	1455	Shooting Range, storage Cage Floor				16			STD	TM-10.47733	X
SBW-2				1500	Upstairs Class room, shelf top				16				47734	X
SBW-3				1506	Stair well floor				16				47735	X
SBW-4				1513	Vault, safe drawer, top				16				47736	X
SBW-5				1520	Storage Room, Shelf				16				47737	X
SBW-6				1525	Assembly Room, HVAC unit back top				144				47738	X
SBW-7				1530	Assembly Rm Flr				144				47739	X
SBW-8				1540	Commander's Office				16				47740	X
SBW-9	↓	↓	↓	1535	Blank							↓	47741	X

Sample Type Codes[1]
1-Air 2-Water 3-Paint 4-Soil 5-Dust
6-Bulk 7-Wipe 8 - Other

Sample Media Codes[2]
1-Charcoal 2-Matched Weight, 0.8um
3-PVC filter 4-M CE 0.8 um , 37 mm
5 -Ghost Wipes™ 6. Passive badge
7. Other

Relinquished By	Date & Time	Received By	Date & Time
Non-Respo [redacted]			9/30/10

COMMENTS:

* Applied to organic and inorganic analysis in cases of an emergency only. @ Applied to inorganic and organic samples, SD: Applied to organic and inorganic samples 7-10 business days.

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