NATIONAL GUARD BUREAU
111 SOUTH GEORGE MASON DRIVE
ARLINGTON VA 22204-1382

ARNG-CSG-P September 8, 2017

MEMORANDUM FOR: Alaska National Guard Adjutant General

SUBJECT: Industrial Hygiene (IH) Lead Dust Survey for Kotzebue Armory [Facility No. 568514]

PURPOSE

The National Guard Bureau (NGB) Mid-West Regional IH Office assigned Lori Arent and Bruce Hills, Certified Industrial Hygienists (CIHs), to perform annual lead surface wipe sampling at the subject facility to determine if lead contamination was present. The sampling was conducted on July 25, 2017 and the site point of contact was Mr. Steve Smith. This armory was constructed in 1987 and had an indoor firing range (IFR) that has been converted to office space for the Alaska State Troopers.

FINDINGS

1. Measurable lead dust was found in the following samples:

Sample Number	Location	Lead (micrograms/square foot)
K-19	Small bay on table near drill press	22
K-20	Small bay on floor inside storage cage	**49**
K-21	Large bay on workbench near offices	**103**
K-30	Old IFR backstop room on encapsulated backstop	**315**
K-33	Old IFR backstop room on wall near exhaust fan	**88**
K-35	Old IFR backstop room on floor	**2178**
K-37	Trooper office on floor	21
K-39	Trooper office on light fixture	**790**
K-40	Trooper office on top of locker #7	**57**
K-41	Trooper office on top of locker #6	36

2. Seven of the ten detectable lead results were above the 40 micrograms per square foot limit recommended by the EPA for facilities occupied by the public. All of the high results were from the old IFR and the maintenance bays. Lead levels above the limit are most likely due to migration from the old IFR and/or handling of contaminated weapons, equipment, and clothing. Regular housekeeping where all horizontal surfaces are cleaned will keep lead levels below 40 and prevent contamination of other areas.

3. In the Trooper office area of the old IFR, the soundproofing, electrical, and mechanical fixtures from the old range remain in the space (see attached photos). A wall was added to partition the Trooper offices from the old IFR backstop room. The wall is not sealed at the top; there is a gap of approximately 4 to 6 inches at the top of the wall. The old IFR backstop room was locked and the lock had to be drilled for access to the room. A note was posted on the backstop stating that the backstop had been cleaned and encapsulated in August 1994. The metal backstop, a metal ceiling baffle, the range exhaust fan (inoperable according to the site contact), and electrical fixtures remain in the old backstop room.

4. The sample results show that there is some lead contamination above the limits on elevated surfaces in the Trooper office area (on a light fixture and on top of a locker). There are also high lead levels in the old IFR backstop room (wall near exhaust fan and floor) and the results show that the encapsulant on the backstop has failed. The maintenance bays also tested high for lead (small bay storage cage floor and large bay workbench).

RECOMMENDATIONS

1. Convert the old IFR in accordance with NG PAM 420-15. The old IFR range components must be removed and the area cleaned and encapsulated for the range to be fully converted and classified as closed. An option for the backstop room is to leave the old IFR components in place (fan, baffle, and backstop), permanently abandon and seal the space, and seal the gap at the top of the wall shared with the Trooper office space.

2. Once the old IFR conversion is completed, contact Randy Fritz at the number below to schedule lead clearance sampling.

3. Clean the horizontal surface in the work bays using wet methods or a high-efficiency particulate air (HEPA) filter vacuum.

The attached laboratory report will provide the results and locations of the samples collected within this facility. For any further questions, please contact Randy Fritz at randy.c.fritz.civ@mail.mil or 303 210-8722.

Randy C. Fritz, DM, MS

Randy C. Fritz

National Guard Bureau
Regional Industrial Hygienist

PSC-FOH ENVIRONMENTAL LABORATORY

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

ANALYTICAL REPORT

Submitted To: ARNG – Region Midwest IH Office
2824 Fairview Pt Rd STE IH
Edgewood, MD 21040

Attention: COL Randy Fritz/Ms. Lori Arent, CIH

Submitted By: Ms. Michelle C. Stemmons

Reference Data: Lead

Sampling Site:	NGB: Kotzebue, AK (Armory)
Sample Media:	Ghost Wipe(s)®
Method Reference:	OSHA ID-121
Project ID:	Project 16106
DFOH Lab Nos.:	TM-17-133447 through TM-17-133490
Date Received:	07/31/17
Data Analyzed:	08/07/17 – 08/17/17
Date Issued:	08/23/17

The wipe samples were hot plate digested. The samples were run on a Perkin Elmer 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.

Ms. Edna A. Bautista
Technical Manager

Ms. Michelle C. Stemmons
Laboratory Director

AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
LAP # 102643

PSC

FEDERAL OCCUPATIONAL HEALTH

PSC-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)
K-1	TM-17-133447	<5.0	<5.0
K-2	TM-17-133448	<5.0	<5.0
K-3	TM-17-133449	<5.0	<5.0
K-4	TM-17-133450	<5.0	<5.0
K-5	TM-17-133451	<5.0	<5.0
K-6	TM-17-133452	<5.0	<5.0
K-7	TM-17-133453	<5.0	<5.0
K-8	TM-17-133454	<5.0	<5.0
K-9	TM-17-133455	<5.0	<5.0
K-10	TM-17-133456	<5.0	<5.0
K-11	TM-17-133457	<5.0	<5.0
K-12	TM-17-133458	<5.0	<5.0
K-13	TM-17-133459	<5.0	<5.0
K-14	TM-17-133460	<5.0	<5.0
K-15	TM-17-133461	<5.0	<5.0
K-16	TM-17-133462	<5.0	<5.0
K-17	TM-17-133463	<5.0	<5.0
K-18	TM-17-133464	<5.0	<5.0
K-19	TM-17-133465	22	22
K-20	TM-17-133466	49	49
K-21	TM-17-133467	103	103
K-22	TM-17-133468	<5.0	<5.0
K-23	TM-17-133469	<5.0	<5.0
K-24	TM-17-133470	<5.0	<5.0
K-25	TM-17-133471	<5.0	<5.0
K-26	TM-17-133472	<5.0	<5.0
K-27	TM-17-133473	<5.0	<5.0
K-28	TM-17-133474	<5.0	<5.0
K-29	TM-17-133475	<5.0	<5.0
K-30	TM-17-133476	315	315
K-31	TM-17-133477	<5.0	<5.0
K-32	TM-17-133478	<5.0	<5.0
K-33	TM-17-133479	88	88
K-34	TM-17-133480	<5.0	<5.0
K-35	TM-17-133481	2178	2178
K-36	TM-17-133482	<5.0	<5.0
K-37	TM-17-133483	21	21
K-38	TM-17-133484	<5.0	<5.0
K-39	TM-17-133485	790	790
K-40	TM-17-133486	57	57
K-41	TM-17-133487	36	36
K-42**	TM-17-133488	<5.0	
K-43**	TM-17-133489	<5.0	
K-44**	TM-17-133490	<5.0	

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LAB # 102643

Project 16106
Page 2 of 3

PSC-FOH ENVIRONMENTAL LABORATORY

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

Surface Wipe Sampling Criteria

Metal	Acceptable Surface Level $\mu g/ft^2$	Basis for Criteria
Lead	200 for facilities (all surfaces)	NG Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006, http://www.ngbpdc.ngb.army.mil/pubs/420/ngpam420_15.pdf
Lead	40 for any potentially child occupied areas of facility (all surfaces); used for armories with public access, family services offices, or other routine use by children	NG Pam 420-15, Guidelines and Procedures for Rehabilitation and Conversion of Indoor Firing Ranges, 3 November 2006, http://www.ngbpdc.ngb.army.mil/pubs/420/ngpam420_15.pdf

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

Analyte	Analytical Method	Method Detection Limit	Minimum Reporting Limit
Lead	OSHA ID-121	2.5 $\mu g/ft^2$	5.0 $\mu g/ft^2$

Ms. Edna A. Bautista
Technical Manager

AIHA LAP, LLC
ACCREDITED LABORATORY
LAB # 102643

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: Michelle Stemmons

PROJECT REFERENCE

Agreement No.:	A 106644
Statement of Work No.:	S 188318
Project No:	P 188319
Agency Proj. Manager	ARNG
Location (City, State):	Armory Kotzebue, AK

For Lab Use Only — Conditions on Receipt with Name & Date
Project /Report # 16106 — 1 of 5
Due Date:
Samples Received Chilled? YES NO (circle one)
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@

Analysis Requested: Lead

Contact Information
Name: Lori Arent
Address: 3605 Fernwood Dr.
Raleigh, NC 27612
Phone/Fax: 919-247-0883
Email: ljarent1@gmail.com

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 (ft^2)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #
K-1	7	5	7/25/17		Court Room B on table				1.0			STD	TM-17-133447
K-2					Court Room C on counter								TM-17-133448
K-3					124 Attorney Conference on desk								TM-17-133449
K-4					204 Clerk's Office on counter								TM-17-133450
K-5					Court Room A on table								TM-17-133451
K-6					218 Jury Room on table								TM-17-133452
K-7					210 Chambers on file cabinet								TM-17-133453
K-8					Hall near 204 on table								TM-17-133454
K-9					2nd floor hall on floor								TM-17-133455
K-10					2nd floor storage on floor								TM-17-133456

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
Lori Arent	7/25/17		7/31/17

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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Location (City, State):	Armory Kotzebue, AK

For Lab Use Only — Conditions on Receipt with Name & Date
Project /Report # 16106 — 2 of 5
Due Date:
Samples Received Chilled? YES NO (circle one)
Rev. 07/2010

Contact Information
Name: Lori Arent
Address: 3505 Fernwood Dr.
Raleigh, NC 27612
Phone/Fax: 919-247-0883
Email: ljarent1@gmail.com

Water Sample Codes[2]
Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Turn Around Time Codes[1]
STD- Standard
3D- Three Day Rush[@]

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 (ft^2)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #
K-11	7	5	7/25/17		Office 108 on desk				1.0			STD	TM-17-133457
K-12					Classroom 109 on floor								TM-17-133458
K-13					Drill Floor on floor								TM-17-133459
K-14					Drill Floor on table								TM-17-133460
K-15					Jail on table								TM-17-133461
K-16					State Trooper Man Office on desk								TM-17-133462
K-17					Trooper Break Room on table								TM-17-133463
K-18					Trooper Break Room on floor								TM-17-133464
K-19					Small Bay on table								TM-17-133465
K-20					Small Bay Storage Cage on floor								TM-17-133466

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
Lori Arent	7/26/17	Karen Hoole	7/31/17

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Statement of Work No.:	S 188318
Project No:	P 188319
Agency Proj. Manager	ARNG
Location (City, State):	Armory Kotzebue, AK

For Lab Use Only — Conditions on Receipt with Name & Date
Project /Report # 160106 — 3 of 5
Due Date:
Samples Received Chilled? YES NO (circle one)
Rev. 07/2010

Water Sample Codes[3]
Turn Around Time Codes[4]: STD- Standard; 3D- Three Day Rush[@]
Container Types: P-Plastic, G-Glass, V-VOC
Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Contact Information
Name: Lori Arent
Address: 3505 Fernwood Dr.
Raleigh, NC 27612
Phone/Fax: 919-247-0883
Email: ljarent1@gmail.com

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 (ft^2)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested: Lead
K-21	7	5	7/26/17		Large Bay on workbench				1.0			STD	TM-17-133467	
K-22					Drug Investigation office on table								TM-17-133468	
K-23					Trooper Offices on wall (old IFR)								TM-17-133469	
K-24					"								TM-17-133470	
K-25					"								TM-17-133471	
K-26					"								TM-17-133472	
K-27					"								TM-17-133473	
K-28					"								TM-17-133474	
K-29					"								TM-17-133475	
K-30					Backstop Room on backstop (old IFR)								TM-17-133476	

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 - 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	Lori Arent	7/25/17		7/31/17

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Project No:	P 188319
Agency Proj. Manager	ARNG
Location (City, State):	Armory Kotzebue, AK

For Lab Use Only — Conditions on Receipt with Name & Date
Project /Report # 16106 4 of 5
Due Date:
Samples Received Chilled? YES NO (circle one)
Rev. 07/2010

Water Sample Codes[3]
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Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

Turn Around Time Codes[4]
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3D- Three Day Rush[@]

Contact Information
Name: Lori Arent
Address: 3505 Fernwood Dr.
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Phone/Fax: 919-247-0883
Email: ljarent1@gmail.com

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 (ft^2)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested: Lead
K-31	7	5	7/25/17		Backstop Room on wall (old IFR)				1.0			STD	TM-17-133477	
K-32					"								TM-17-133478	
K-33					"								TM-17-133479	
K-34					"								TM-17-133480	
K-35					Backstop Room on floor (old IFR)								TM-17-133481	
K-36					Trooper Offices on floor (old IFR)								TM-17-133482	
K-37					"								TM-17-133483	
K-38					Hall outside Trooper office door on floor								TM-17-133484	
K-39					Trooper Offices on light fixture								TM-17-133485	
K-40					Trooper Offices on locker								TM-17-133486	

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
Lori Arent	7/25/17		7/31/17

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Location (City, State):	Armory Kotzebue, AK

For Lab Use Only
Project /Report # 16106
Condition on Receipt with Name & Date: SOFS
Due Date:
Samples Received Chilled? YES NO (circle one)
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Water Sample Codes[1]
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Preservatives: A-None, B-H_2SO_4, C-HNO_3, D-NaOH

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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 (ft^2)	Water Volume (Liters)	Water Code[3]	Turn Around Time[4]	Lab ID #	Analysis Requested: Lead
K-41	7	5	7/25/17		Trooper Offices on locker				1.0			STD	TM-17-133487	
K-42					Blank				--				TM-17-133488	
K-43					Blank				-				TM-17-133489	
K-44					Blank				-				TM-17-133490	

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
Lori Arent	7/25/17		7/31/17

COMMENTS:
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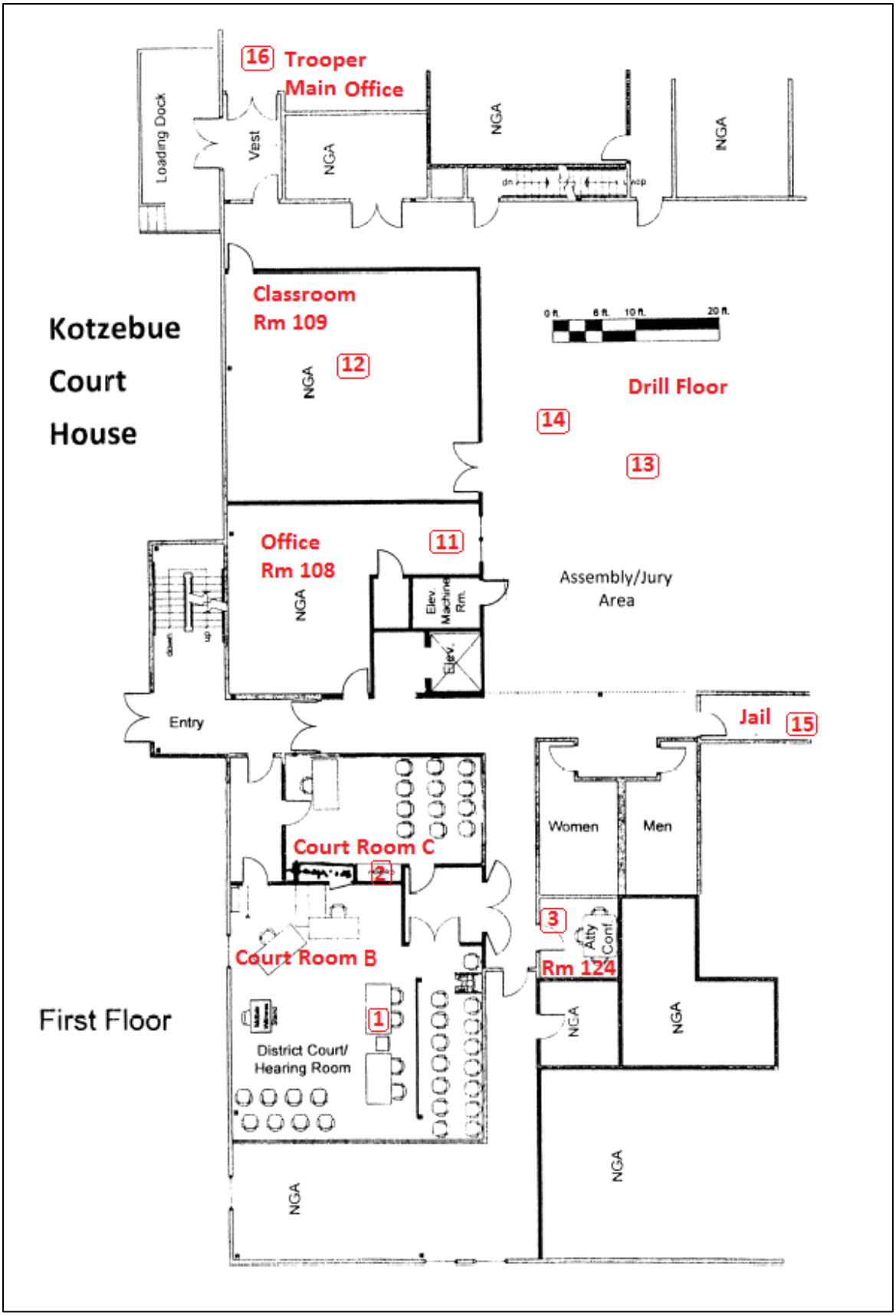
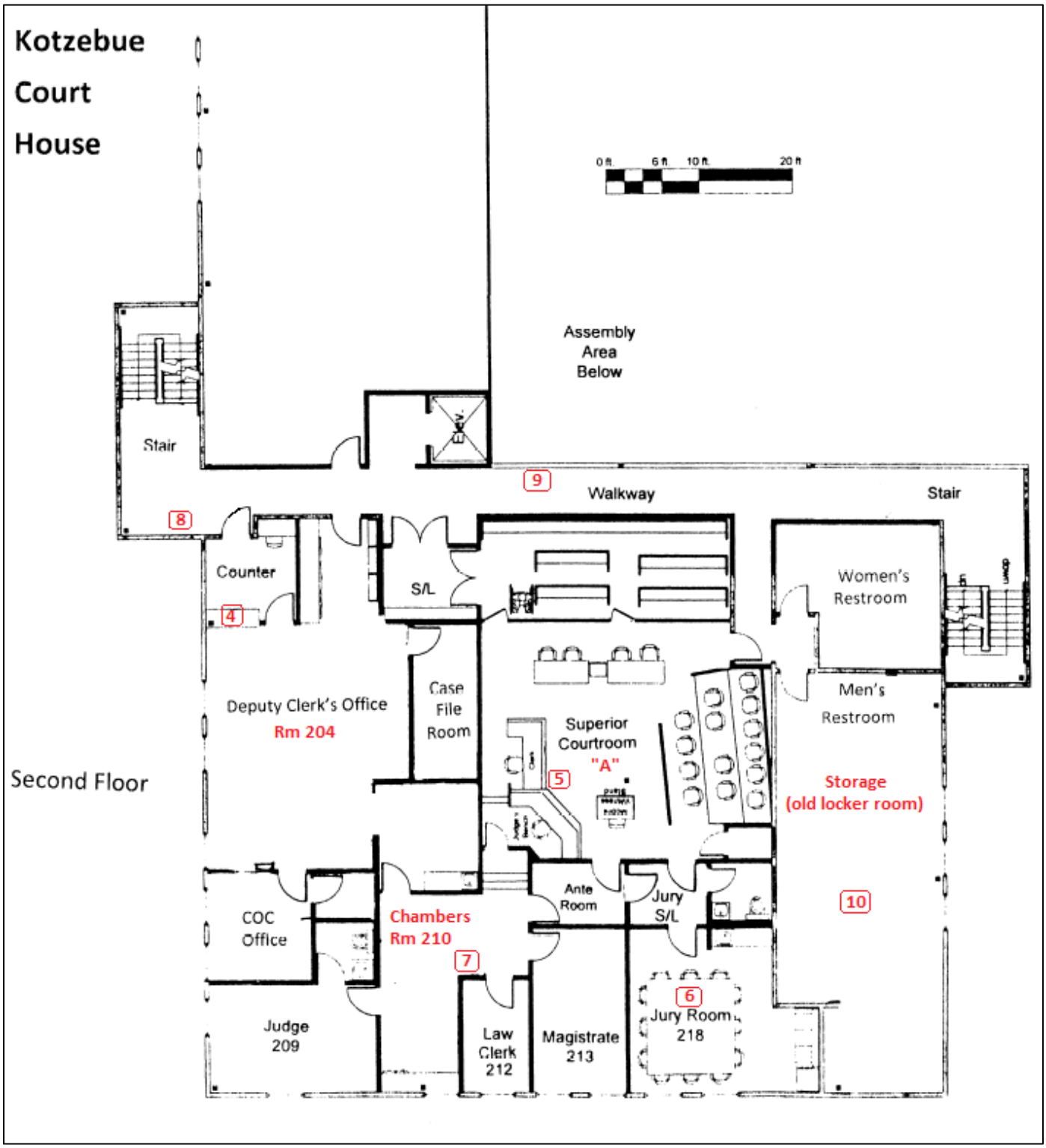
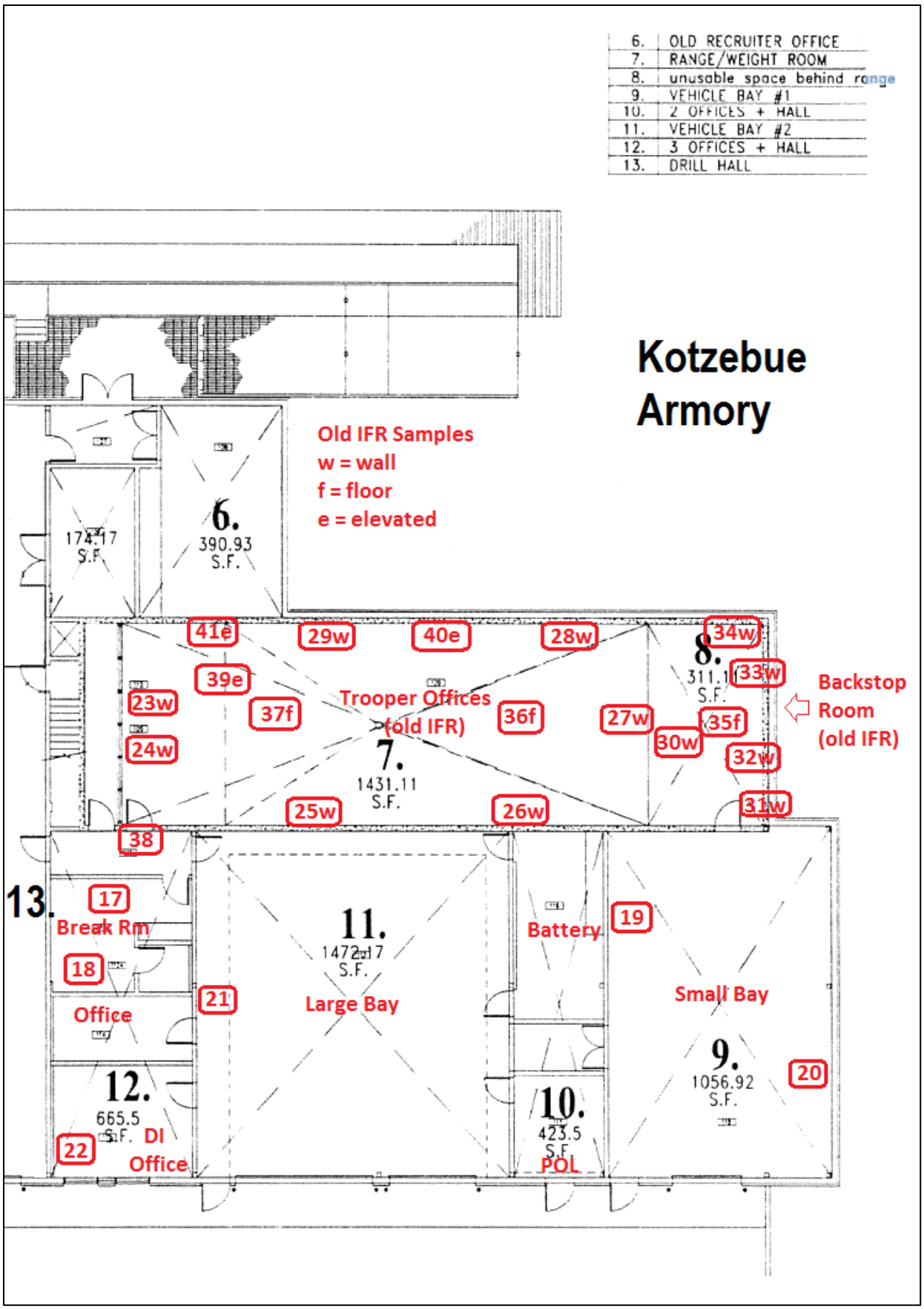
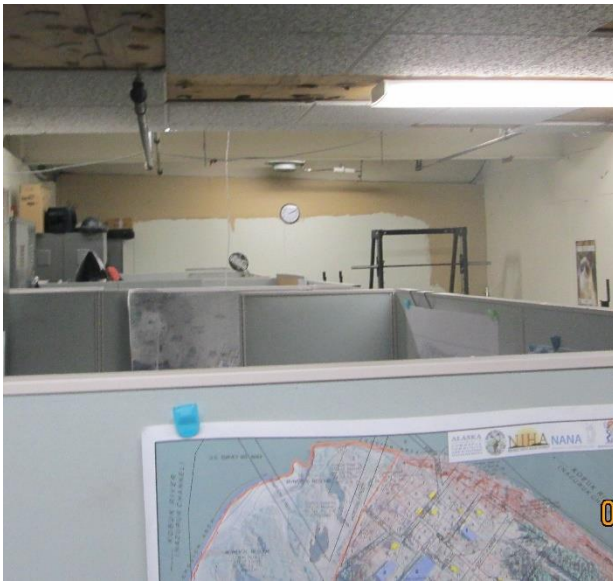

Kotzebue
Court
House
First Floor
16 Trooper
Main Office
Loading Dock
Vest
NGA
Classroom
Rm 109
12
Drill Floor
14
13
Office
Rm 108
11
Elev. Machine Rm.
Elev.
Assembly/Jury
Area
Entry
Jail
15
Women
Men
Court Room C
2
3
Atty Conf
Court Room B
Rm 124
1
District Court/
Hearing Room
0 ft. 6 ft. 10 ft. 20 ft.


Kotzebue
Court
House
0 ft.
6 ft.
10 ft.
20 ft
Assembly
Area
Below
Stair
9
Walkway
Stair
8
Counter
4
S/L
Women's
Restroom
Deputy Clerk's Office
Rm 204
Case
File
Room
Superior
Courtroom
"A"
5
Men's
Restroom
Storage
(old locker room)
Second Floor
Ante
Room
Jury
S/L
10
COC
Office
Chambers
Rm 210
7
6
Jury Room
218
Judge
209
Law
Clerk
212
Magistrate
213


6. OLD RECRUITER OFFICE
7. RANGE/WEIGHT ROOM
8. unusable space behind range
9. VEHICLE BAY #1
10. 2 OFFICES + HALL
11. VEHICLE BAY #2
12. 3 OFFICES + HALL
13. DRILL HALL
Kotzebue Armory
Old IFR Samples
w = wall
f = floor
e = elevated
6. 390.93 S.F.
174.17 S.F.
7. 1431.11 S.F.
Trooper Offices (old IFR)
8. 311.1 S.F.
Backstop Room (old IFR)
11. 1472.17 S.F.
Large Bay
Battery
Small Bay
9. 1056.92 S.F.
10. 423.5 S.F.
POL
12. 665.5 S.F.
DI Office
13.
Break Rm
Office
41e
29w
40e
28w
34w
39e
33w
23w
37f
36f
27w
35f
30w
24w
32w
25w
26w
31w
38
17
18
21
19
20
22

Old IFR - Trooper Offices

Entry door showing mechanical/electrical, equipment and sound-proofing from old IFR.

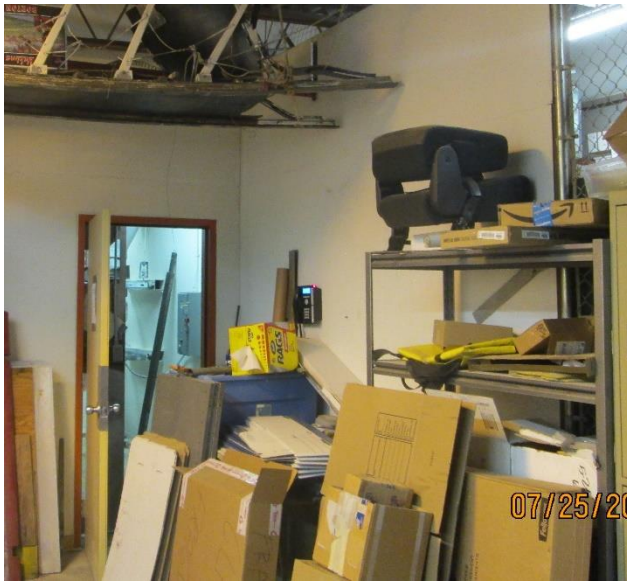


Office area looking toward partition wall and fitness area.

Close up view of sound proofing and adhesive on ceiling above fitness area.

Partition wall showing gap at top of wall and mechanical/electrical equipment.

Old IFR - Backstop Room



Entry door to backstop room.

Backstop and exhaust fan.

View above backstop showing baffle and partition wall with gap above.

Sample K-35 on floor.