Final Report
Ketchikan and Kotzebue
Lead Mitigation and Interior Cleaning

Ketchikan and Kotzebue, Alaska
Contract Number: W91ZRU-17-C-0003

Prepared For:

Alaska Army National Guard
PO Box B, Camp Denali
Ft Richardson, Alaska 99505-2610

December 2017

Prepared By:

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ACRONYMS

µg/ft^2	micrograms per square foot
µg/m^3	micrograms per cubic meter
AKARNG	Alaska Army National Guard
Brice	Brice Engineering Services
CFR	Code of Federal Regulations
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
EPA	Environmental Protection Agency
HEPA	high-efficiency particulate air
HUD	U.S Department of Housing and Urban Development
IFR	indoor firing range
OFR	Office of the Federal Register
OSHA	Occupational Safety and Health Administration
PEL	permissible exposure limit
SOW	Scope of Work
TAT	turnaround time

1.0 INTRODUCTION

Brice Engineering Services (Brice) has prepared this Report on behalf of the Alaska Army National Guard (AKARNG) to document the lead mitigation and clean-up activities for two armories with Indoor Firing Ranges (IFR) in Ketchikan and Kotzebue, Alaska. This project was awarded under Contract No. W91ZRU-17-C-0003. This report describes the field methodology, schedule, regulatory requirements, and waste management for the lead mitigation and clean-up. All work was conducted in accordance with the AKARNG Scope of Work (SOW), Brice Work Plan, and applicable sections of the Code of Federal Regulations (CFR), Title 29 Sections 1910.1025 and 1926.62; Office of the Federal Register (OFR) Hazardous Waste Operations and Emergency Response; and the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). Field documents are provided in Appendix A. Disposal receipts are included in Appendix B. Photos of field activities are included in Appendix C. Lead wipe samples and air monitoring results are included in Appendix D.

1.1 Background

1.1.1 Ketchikan

Ketchikan is a city in the Ketchikan Gateway Borough, Alaska, United States, the southeastern most city in Alaska. With a population at the 2010 census of 8,050, it is the fifth-most populous city in the state, and tenth-most populous community when census-designated places are included. The surrounding borough, encompassing suburbs both north and south of the city along the Tongass Highway, plus small rural settlements accessible mostly by water, registered a population of 13,477 in that same census.

The AKARNG maintains an armory in Ketchikan and the armory's lower level was utilized as an IFR. The space was converted to general administrative space in 1990; additionally, the armory underwent a renovation. Many lockers and office furnishings have been exposed to dust from the renovation in 2015 and 2016. During the construction, lead dust was circulated through the armory.

Surface wipe samples were collected in 2016 to determine lead levels on furnishings and surfaces throughout the armory. The 2016 report shows that all lead wipe samples analyzed were above the desired cleanup level of 40 micrograms per square foot ($\mu g/ft^2$), with some areas containing lead contamination as high as 29,750 $\mu g/ft^2$.

1.1.2 Kotzebue

Kotzebue is a city in the Northwest Arctic Borough of Alaska. Kotzebue is on the Baldwin Peninsula in Kotzebue Sound, on a 3-mile long spit which ranges in width from 1,100 to 3,600 feet. It is located near the discharges of the Kobuk, Noatak, and Selawik Rivers, 549 air miles northwest of Anchorage and 26 miles above the Arctic Circle. The population of the city was 3,201 as of the 2010 census. The AKARNG maintains an armory in Kotzebue and currently leases the facility to the Court House and Highway Patrol with no guard presence at this site.

Surface wipe samples were collected on December 28, 2016 to determine lead levels in the Kotzebue armory building. Areas effected with lead above the minimal standard were found in four rooms at concentrations up to 4,412 $\mu g/ft^2$.

1.2 Project Objectives

The Ketchikan and Kotzebue armories both contained IFRs, which resulted in lead dust to be present inside the Ketchikan and Kotzebue armory buildings. NG Pam 420-15 guidelines for surface lead contamination

are 200 µg/ft^2 for work areas and 40 µg/ft^2 for potentially child-occupied areas of the facility. In order to protect children and the general public, both the US Department of Housing and Urban Development (HUD) and the Environmental Protection Agency (EPA) use 40 µg/ft^2 as the federal threshold for lead contamination in dust for risk assessment and clearance testing. Lead has been detected in both the Ketchikan and Kotzebue armory buildings at concentrations above the 40 µg/ft^2 threshold.

This Report provides background information and a summary of the mitigation activities that took place to remove and dispose of lead-contaminated dust from the Ketchikan and Kotzebue armories. The objective of this mitigation action was to remove lead surface contamination and eliminate environmental health hazards and bring the former IFRs in the armories into compliance with the NG Pam 420-15 guidelines, and to allow for the IFR conversion process to continue. This was accomplished through the implementation of lead mitigation actions and housekeeping activities. Specific site activities are summarized in Section 3.0.

2.0 SITE MANAGEMENT

2.1 AKARNG Personnel

Below is contact information for the AKARNG personnel involved in this project.

Michael P. Connor, Contract Specialist	
PO Box B, Camp Denali JBER-Richardson, AK 99505-5800 Office (907) 428-6182 michael.p.connor.civ@mail.mil	Make all decisions that affect the scope or cost of the project and approve any project changes prior to implementation of scope changes.
Virginia M. Trezise-Harman, Administrative Contract Specialist	
PO Box B, Camp Denali JBER-Richardson, AK 99505-5800 Office (907) 428-6188 virginia.m.trezise.civ@mail.mil	All deliverables to be submitted through the Ms. Trezise; report directly to the AKARNG Contracting Specialist.
Ronnie Mayfield, Contracting Officer's Representative	
PO Box 5800 JBER-Richardson, AK 99505-5800 Office (907) 428-6856 michael.k.mayfield.mil@mail.mil	Monitor all phases of fieldwork performed by the Contractor; serve as a liaison between the Contractor and the Administrative Contract Specialist and Contract Specialist.

2.2 Brice Personnel

The following table provides the contact information for the Brice personnel assigned to this project, including their roles and responsibilities on the project.

Jamie Oakley, Program Manager	
3800 Centerpoint Drive, Suite 400 Anchorage, AK 99503 Mobile: (907) 227-3981 joakley@briceenvironmental.com	Oversee implementation of Work Plan; Mr. Oakley was available to consult with field personnel to ensure field activities are conducted in accordance with regulations.
Monica Oakley, Project Manager	
3800 Centerpoint Drive, Suite 400 Anchorage, AK 99503 Mobile: (907) 227-7390 moakley@bricenenvironmental.com	Implement project, ensure all technical, financial, and scheduling objectives of project are achieved successfully. Direct logistical aspects of mobilization and execution of field activities.
Caleb Leigh, Site Superintendent	
3800 Centerpoint Drive, Suite 400 Anchorage, AK 99503 Mobile: (907) 799-1622 cleigh@briceenvironmental.com	Assist with logistical elements of equipment and personnel mobilization, execution of field activities, and demobilization.

2.3 Notifications

No notification or permits were required for the Ketchikan and Kotzebue lead mitigation and interior cleaning.

2.4 Decontamination

Removal of gross lead containing material is integral with the performance of abatement work and as such, decontamination proceeded after the gross abatement was completed.

Lead-contaminated rags and cleaning supplies were disposed of in 6-mil poly bags. Decontaminated HEPA units and tools were removed from the work area after cleaning was completed. Additional cleaning of the area proceeded after all materials and equipment were removed.

The site superintendent completed a thorough visual inspection of the entire work area to ensure that all visible lead containing material had been removed. Any small quantities of residual material that were found after the removal of poly sheeting were removed by a HEPA filtered vacuum cleaner.

3.0 FIELD ACTIVITIES

Prior to abatement and cleanup at both armories, the AKARNG and Brice came to agreement on the following items:

- Limits of work
- Visual inspection and video documentation of existing conditions if deemed prudent
- Brice's use of water, power, and sanitation facilities
- Sequencing of the work proceed in a manner that best fits the needs of Brice

3.1 Ketchikan

Brice mobilized a superintendent and two clean-up crew members to Ketchikan, Alaska on September 5, 2017 to complete all field work.

Barrier tape and warning signs were used to delineate regulated areas. These regulated areas were used to physically define all lead contamination being cleaned. Proper signage was placed at the entrance and limits of the work area. Fire exits were established and maintained during the abatement activities. Cleaning of existing contamination was done with the use of high-efficiency particulate air (HEPA) vacuums and wet-wiping surfaces with a surfactant/detergent suitable for lead mitigation. Specifically, Brice cleaned surfaces located in the rooms impacted with lead as identified by the August 2016 wipe sampling. The Ketchikan armory IFR was converted to general administrative space in 1990 and has since undergone a renovation. During the renovation in 2015 and 2016, many lockers, office furnishings, and surfaces have been exposed to lead dust. Additionally, the construction circulated lead dust throughout the armory. The IFR and supply room downstairs and the entire main floor of the armory was cleaned, which included the following rooms:

- Armory entrance
- Room 102 (hallway)
- Room 106 (office)
- Room 108 (office)
- Room 100A (locker-room)
- Room 110B (classroom)
- Room 110C (classroom)
- Room 118 (Supply room)
- Hall to IFR
- Drill Floor

There were several rooms not in the AKARNG SOW that were also cleaned in addition to the rooms listed above. The additional rooms include two offices located in the main hallway (Room 102), two janitor's closets, two bathrooms, a physical fitness room, a shower room, and a breakroom. Detailed floor plans can be found in Appendix E.

All lead-containing dust removed was adequately wetted down before being placed in 6-mil poly bags, taped closed, and taken to a bagging area for cleaning. Material was labeled before leaving the work area and material was transported from the work area to the transport container/vehicle. Both daily and at the completion of the project, Brice received a copy of the dump fee receipts.

All analytical samples were packaged and transported by the site superintendent to White Environmental, Inc. Samples were analyzed on 2- and 3-day turnaround times (TAT). Ketchikan lead wipe samples are part of this submittal package and are included in Appendix D.

TABLE 1 KETCHIKAN LEAD WIPE SAMPLE RESULTS

Sample ID	Room	Sample location	Analytical Result: Total Lead
AKARNG Cleanup Level: 40 µg/ft²			***µg/ft²***
KETCH17-OF1-001	Office 1	Top of cabinet	<6
KETCH17-OF2-002	Office 2	Top of desk	<6
KETCH17-OF3-001	Office 3	Top of desk	<6
KETCH17-OF4-001	Office 4	Top of desk	<6
KETCH17-CR1-001	Classroom 1	South wall	<6
KETCH17-CR2-001	Classroom 2	Top of locker	<6
KETCH17-CR3-001	Classroom 3	Top of table	<6
KETCH17-BR1-001	Breakroom 1	Top of fridge	<6
KETCH17-WB-001	Women's Bath	Top of table	<6
KETCH17-WB-BLANK	Women's Bath	BLANK	<6
KETCH17-JC-001	Janitor's closet	Floor - middle	<6
KETCH17-DF-001	Drill floor	Floor - north	<6
KETCH17-DF-002	Drill floor	Floor - south	<6
KETCH17-DF-003	Drill floor	Floor - west	<6
KETCH17-DF-004	Drill floor	Floor - east	<6
KETCH17-DF-BLANK	Drill floor	BLANK	<6
KETCH17-MH-001	Main hallway	Wall - west	<6
KETCH17-IFR-001	Firing range	North vent	<1
KETCH17-IFR-002	Firing range	Floor - middle	<6
KETCH17-IFR-003	Firing range	Wall - south	<6
KETCH17-IFR-004	Firing range	Backstop -	<6
KETCH17-IFR-005	Firing range	Ceiling beam	<6
KETCH17-SR-001	Supply room	Floor - middle	<6
KETCH17-SR-BLANK	Supply room	BLANK	<6
KETCH17-HIFR-001	Hall to IFR	Heater - west	<6
KETCH17-HIFR-002	Hall to IFR	Stairway wall	<6
KETCH17-HIFR-003	Hall to IFR	Table - east	<6
KETCH17-MS-001	Men's shower	Wall - south	<6
KETCH17-MB-001	Men's bath	Wall - west	<6
KETCH17-MB-BLANK	Men's bath	BLANK	<6
KETCH17-PFR-001	Fitness Room	Table - north	<6
KETCH17-PFR-002	Fitness Room	Wall - south	<6
KETECH17-PFR-BLANK	Fitness Room	BLANK	<6

Notes:
µg/ft² micrograms per square foot

3.2 Kotzebue

Brice mobilized a superintendent and two clean-up crew members to Kotzebue, Alaska on August 25, 2017 to complete all field work.

Barrier tape and warning signs were used to delineate the regulated areas. These areas were physically defined to include all lead contamination being cleaned. Proper signage was placed at the entrance and limits of the work area. Fire exits were established and maintained during the abatement activities. Cleaning of existing contamination was done with the use of HEPA vacuums and wet-wiping surfaces with a surfactant/detergent suitable for lead mitigation. Specifically, Brice cleaned surfaces located in the rooms impacted with lead as identified by the December 2016 wipe sampling:

- Trooper service office, sample ID # HH1
- Evidence Room/Trooper Garage, sample ID # II1
- Trooper Squad Office, sample ID# JJ1
- Trooper area / firing range recycle room, sample ID # KK1

Upon arrival at the armory, the troopers occupying the building explained that all the rooms are occupied or have daily traffic, and many of the items in the rooms are classified or confidential and could not be touched by civilians. Therefore, some surfaces were not able to be cleaned due to being unable to move objects (i.e computers, documents, evidence boxes, and miscellaneous trooper-owned or confiscated equipment and materials). The crew concentrated their efforts on horizontal surfaces such as rafters, overhead lighting, overhead piping, vent ducting, floors, shelves, lockers, and other exposed horizontal surfaces. After all horizontal surfaces that were able to be accessed were cleaned, the crew cleaned dust off of the trooper's objects, as permitted.

All lead-containing dust removed was adequately wetted down before being placed in 6-mil poly bags, taped closed, and taken to a bagging area for cleaning. Material was labeled before leaving the work area and material was transported from the work area to the transport container/vehicle. Both daily and at the completion of the project, Brice received a copy of the dump fee receipts.

Analytical samples were packaged and transported by the site superintendent to White Environmental, Inc. Samples were analyzed on 2- and 3-day TAT. Kotzebue lead wipe samples are part of this submittal package and are included in Table 2 below and Appendix D.

TABLE 2 KOTZEBUE LEAD WIPE SAMPLE RESULTS

Sample ID	Room	Sample location	Analytical Result: Total Lead
AKARNG Cleanup Level: 40 µg/ft²			***µg/ft²***
KOTZ17-SR-001	Squad Room	Top of locker	<6
KOTZ17-SR-002	Squad Room	Top of cabinet	<6
KOTZ17-SR-003	Squad Room	Wall - south	<6
KOTZ17-SR-004	Squad Room	Floor - south	<6
KOTZ17-SR-BLANK	Squad Room	BLANK	<6
KOTZ17-TG/E-001	Trooper Garage	Top of locker	<6
KOTZ17-TG/E-002	Trooper Garage	Top of locker	<6
KOTZ17-TG/E-003	Trooper Garage	Wall - west	<6
KOTZ17-TG/E-004	Trooper Garage	Table - east	<6
KOTZ17-TG/E-005	Trooper Garage	Floor - middle	<6
KOTZ17-TG/E-006	Trooper Garage	TG - Evidence	<6
KOTZ17-TG/E-BLANK	Trooper Garage	BLANK	<6
KOTZ17-GG-001	Guard Garage	Orange shelf	8
KOTZ17-GG-002	Guard Garage	Work bench	<6
KOTZ17-GG-003	Guard Garage	Floor - west	<6
KOTZ17-GG-004	Guard Garage	Wall - east	<6
KOTZ17-GG-005	GG - Recycle Room	Floor middle	12
KOTZ17-GG-BLANK	Guard Garage	BLANK	<6
KOTZ17-TS-001	Trooper Service Office	Wall - east	<6
KOTZ17-TS-002	Trooper Service Office	Desk - east	<6
KOTZ17-TS-003	Trooper Service Office	Orange shelf	<6
KOTZ17-TS-004	Trooper Service Office	White pipe	<6
KOTZ17-TS-BLANK	Trooper Service Office	BLANK	<6

Notes:
µg/ft² micrograms per square foot

3.3 Air Monitoring

All air monitoring was conducted by Brice, including personal protection samples, and analyzed by White Environmental.

Monitoring was completed in accordance with applicable sections of the CFR, Title 29 Sections 1910.1025 and 1926.62. According to the Occupational Safety and Health Administration (OSHA) CFR, Title 29 Sections 1910.1025 and 1926.62, the permissible exposure limit (PEL) for working with airborne lead contamination is 50 micrograms per cubic meter (µg/m³) averaged over an 8-hour period. All air monitoring results for personnel, environmental, and excursion air samples were below the PEL and below the laboratory's reporting limit. Air monitoring results are part of this submittal package and are included in Appendix D.

4.0 REFERENCES

Office of the Federal Register (OFR). 2005 (October). Hazardous Waste Operations and Emergency Response. National Archives and Records Administration. 29 CFR 1910.134.

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APPENDIX A

FIELD DOCUMENTS & SAFETY MEETING LOGS

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Brice

DAILY SITE SAFETY MEETING

Date: 9.6.17

Project: Ketchikan Armory

Site Safety and Health Officer: Caleb Leigh

Activities to be Performed	Tools, Equipment, Materials to be Used	Possible Injury, Hazards	Required PPE, Controls, Plan
HEPA Vacuuming, wet wiping, moving obstacles	Vacuums, Rags, Ladders	Slips Trips, falls Back Strain	HP respirator, Gloves, proper lifting, Stay aware.

Signatures of Attendees:

No.	Name	Signature	Date	Company
1	Caleb Leigh		9/6/17	Brice
2	~~Angye~~ Leavitt	Angye Leavitt	9/6/17	~~Amy~~ Brice
3	A Platt		9.6.17	"
4				
5				
6				
7				
8				

Brice

DAILY SITE SAFETY MEETING

Date: 9.7.17

Project: Ketchikan Armory

Site Safety and Health Officer: Caleb Leigh

Activities to be Performed	Tools, Equipment, Materials to be Used	Possible Injury, Hazards	Required PPE, Controls, Plan
HEPA Vacuuming, Wet wiping, Moving objects	Vacuums, Rags, Ladders	Slips, trips, falls Back Strain	HP respirator, Tyvek, proper lifting, Stay aware

Signatures of Attendees:

No.	Name	Signature	Date	Company
1	Caleb Leigh		9/7/17	Brice
2	Angye Leavitt	Angye Leavitt	9/7/17	Brice
3	A. Platt		9.7.17	"
4				
5				
6				
7				
8				

NAME	ORGANIZATION	TYPE OF RESPIRATORY PROTECTION	DATE	TIME IN	TIME OUT
Caleb Leigh	Brice	HF, Tyvek	9/6/17	7:00am	8:30Pm
Anbie Leavitt	Brice	HF, Tyvek	9/6/17	7:00am	8:30Pm
A. Platt	Brice	HF, Tyvek	9/6/17	7:00am	8:30Pm
Caleb Leigh	Brice	HF, Tyvek	9/7/17	7:00am	5:00Pm
Anbie Leavitt	Brice	HF, Tyvek	9/7/17	7:00am	5:00 Pm
A. Platt	Brice	HF, Tyvek	9/7/17	7:00am	5:00pm

Brice

DAILY SITE SAFETY MEETING

Date: 8/26/17

Project: Kotzebue Armory

Site Safety and Health Officer: Caleb Leigh

Activities to be Performed	Tools, Equipment, Materials to be Used	Possible Injury, Hazards	Required PPE, Controls, Plan
Vacuuming	HEPA Vacuum, Rags, cleaning Solution	Overhead objects, Slips/trips/falls, working from ladders	HP Respirator, Tyvek, Gloves,
Wet wiping	Rags, Poly, cleaning Solution	Overhead objects, Slips/trips/falls, working from ladder	HP respirator, Tyvek, Gloves

Signatures of Attendees:

No.	Name	Signature	Date	Company
1	Caleb Leigh		8/26/17	Brice
2	Augye Leavitt		8/26/17	Brice
3	A. Platt		8/26/17	Brice
4				
5				
6				
7				
8				

Brice

DAILY SITE SAFETY MEETING

Date: 8/27/17

Project: Kotzebue Armory

Site Safety and Health Officer: Caleb Leigh

Activities to be Performed	Tools, Equipment, Materials to be Used	Possible Injury, Hazards	Required PPE, Controls, Plan
Vacuuming, wet wiping	HEPA Vacuum, ladders, rags	Slips, trips, fall overhead injury, overhead objects	HF Respirator, Tyvek, Gloves,
		Dust in eyes, lungs	Stay attentative

Signatures of Attendees:

No.	Name	Signature	Date	Company
1	Caleb Leigh		8/27/17	Brice
2	Duaye Leavitt	Duaye Leavitt	8/27/17	Brice
3	~~A. Hall~~		8.27.17	"
4				
5				
6				
7				
8				

Brice

DAILY SITE SAFETY MEETING

Date: 8/28/17

Project: Kotzebue Armory

Site Safety and Health Officer: Caleb Leigh

Activities to be Performed	Tools, Equipment, Materials to be Used	Possible Injury, Hazards	Required PPE, Controls, Plan
Vaccuming, wet wiping	Hepa vac, ladder, rags	Slips, trips, fall, overhead injury overhead objects	HF Respirator, Tyvek, Gloves,
		Dust in eyes, lungs	Stay effective!

Signatures of Attendees:

No.	Name	Signature	Date	Company
1	A. Platt	A. Platt	8.28.17	Brice
2	Peggy Leavitt	Peggy Leavitt	8/28/17	Brice
3	Caleb Leigh		8/28/17	Brice
4				
5				
6				
7				
8				

Brice

DAILY SITE SAFETY MEETING

Date: 8/31/17

Project: Kotzebue Armory

Site Safety and Health Officer: Caleb Leigh

Activities to be Performed	Tools, Equipment, Materials to be Used	Possible Injury, Hazards	Required PPE, Controls, Plan
Vacuuming & wet wiping	HepA vac, ladder, Rags	Slips, trips, fall overhead object injury	HF respirator, tyvek Gloves
		Dust in eyes, lungs	Stay attentive.

Signatures of Attendees:

No.	Name	Signature	Date	Company
1	Caleb Leigh	[signature]	8/31/17	Brice
2	A. Platt	[signature]	8/31/17	
3				
4				
5				
6				
7				
8				

NAME	ORGANIZATION	TYPE OF RESPIRATORY PROTECTION	DATE	TIME IN	TIME OUT
Caleb Leigh	Brice	Half face	8/26/17	9:00am	8:00Pm
Angye Leavitt	Brice	Half face	8/26/17	9:00am	8:00Pm
A. Platt	Brice	Half-face	8/26/17	9:00	8:00Pm
Caleb Leigh	Brice	half-face	8/27/17	8:30am	10:45 Pm
Angye Leavitt	Brice	half-face	8/27/17	8:30am	10:45 Am
A. Platt	Brice	1/2 Face	8/27/17	8:30am	10:45Am
Angye Leavitt	Brice	half-face	8/28/17	9:00a	11:30am
Caleb Leigh	Brice	half face	8/28/17	9:00am	11:30am
A. Platt	Brice	1/2 face	8/28/17	9:00am	11:25am
Caleb Leigh	Brice	half face	8/31/17	9:00am	12:30pm
A. Platt	Brice	1/2 Face	8/31/17	9:00am	12:45pm

APPENDIX B

DISPOSAL DOCUMENTATION

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SOLID WASTE FACILITY/LANDFILL
334 FRONT STREET
KETCHIKAN,AK.99901 225-2370

000000 Cash Customer

SITE	TICKET	GRID	WEIGHMASTER
02	00902700	0,P-11	FRONT

DATE IN	DATE OUT	TIME IN	TIME OUT	VEHICLE	ROLL OFF
09/07/17	09/07/17	12:47	12:51		

REFERENCE	ORIGIN
ARMORY	KETCHIKAN, ALASKA

Manual Gross Wt.	6730	LB	Inbound - Cash ticket
Scale 2 Tare Wt.	6670	LB	
Net Weight	60	LB	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	FEE	TOTAL
0.03	TON	COMM UNSPECIFIED	145.000	14.50	0.00	14.50

Operating hours are 8am to 4pm Monday through Saturday
I verify that no regulated asbestos or other regulated
hazardous materials are included with this material.
Call City Hall @225-3111 for copies.

NET AMOUNT
14.50
TENDERED
14.50
CHANGE
0.00
CHECK NO.
V9446

SIGNATURE

CITY OF KOTZEBUE
PUBLIC WORKS DEPARTMENT
907-442-3401

№ 10545

INVOICE

SOLD TO: BRICE ENG	DATE: 8-31-17
ADDRESS:	SOLD BY: JGL
CITY, STATE, ZIP	

QUANTITY		DESCRIPTION	PRICE	AMOUNT
1 YRD	1	BALER BLDG		
	2			
	3			
	4			
	5			
	6			
	7			
	8			

CITY OF KOTZEBUE
PUBLIC WORKS DEPARTMENT
907-442-3401

№ 10536

INVOICE

SOLD TO: Brice Engineering	DATE: 8-28-17
ADDRESS:	SOLD BY:
CITY, STATE, ZIP	

QUANTITY		DESCRIPTION	PRICE	AMOUNT
2 YRDS	1	BALER BLDG		
	2			
	3			
	4			
	5			
	6			
	7			
	8			

APPENDIX C

PHOTO LOG

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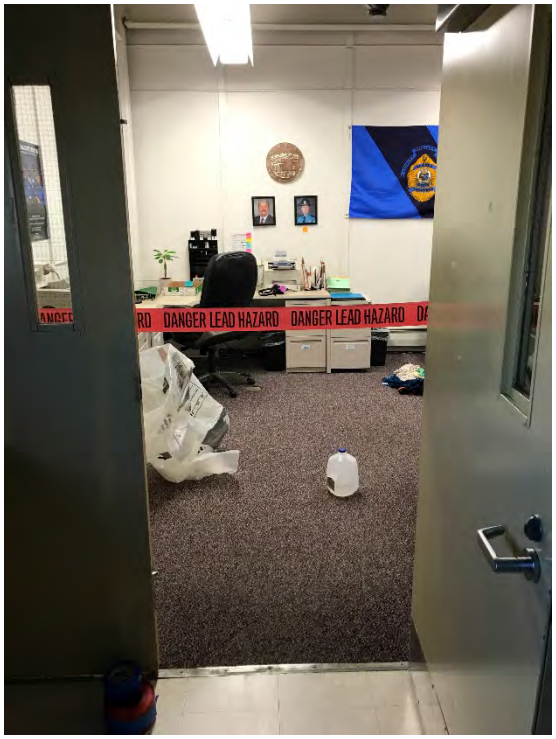
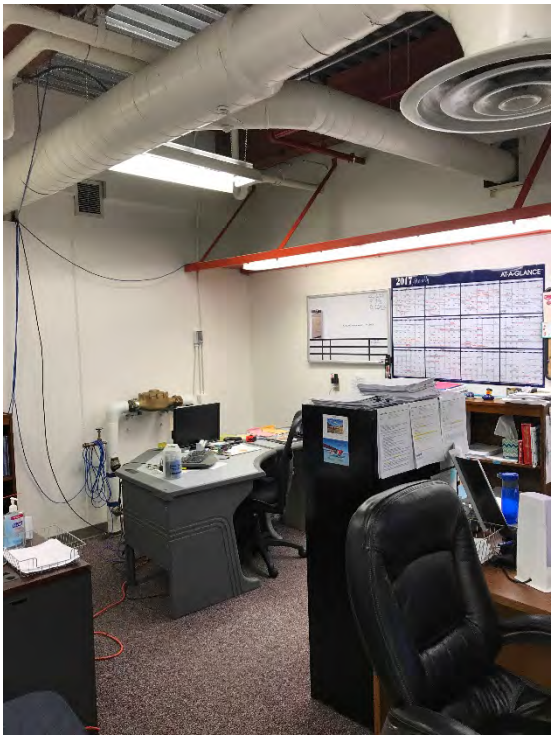
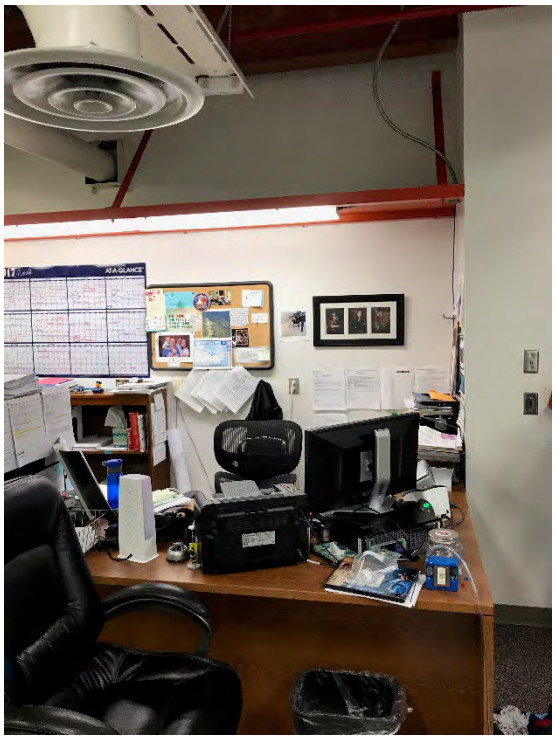
KOTZEBUE



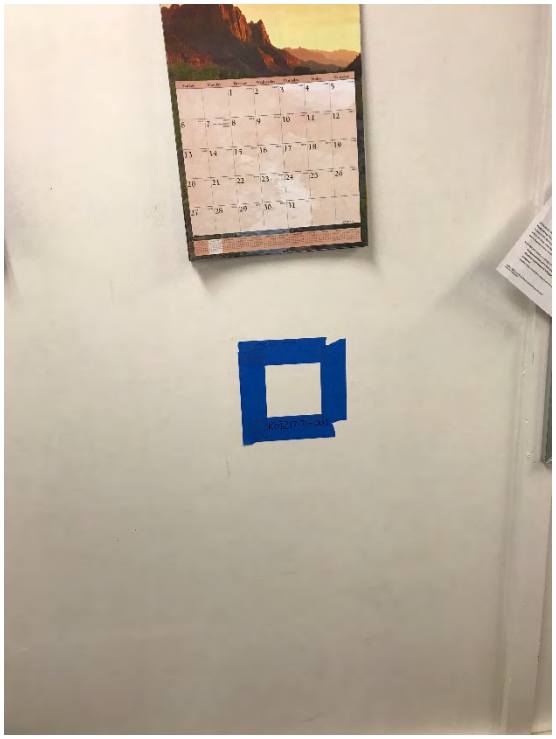


Photos 1 and 2: Trooper Service Office (TSO) taped of as a regulated area (left) and some desks and work areas within the TSO (right).

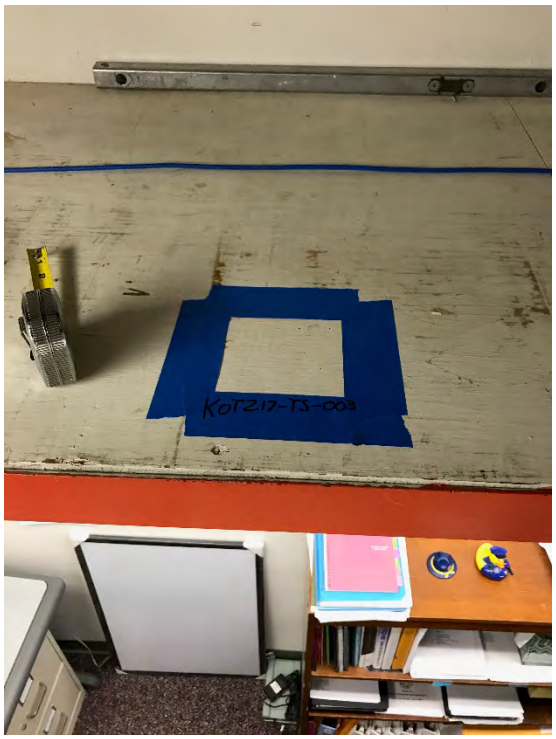


Photos 3 and 4: TSO - Desk with an air sampling pump and the orange shelf with lead contamination (left) and another air sampling pump location (right).

KOTZEBUE

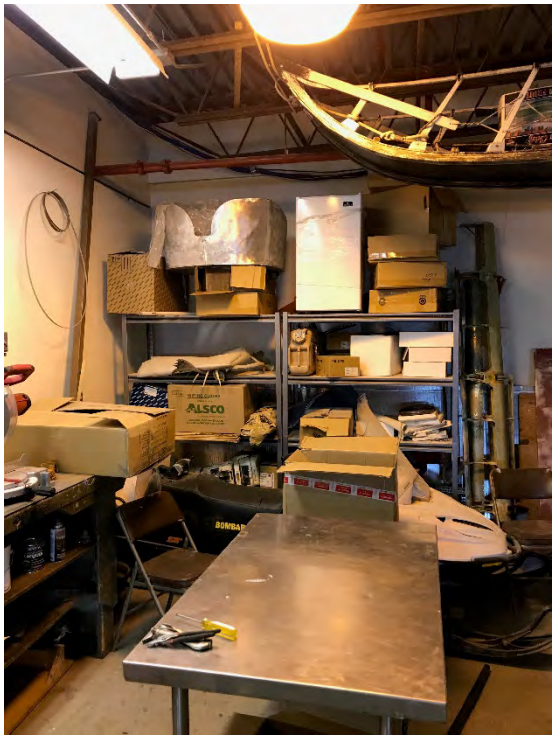


Photos 5 and 6: TSO - Lead wipe sample TSO-001 on the east wall (left) and lead wipe sample TSO-002 on the SE desk (right).

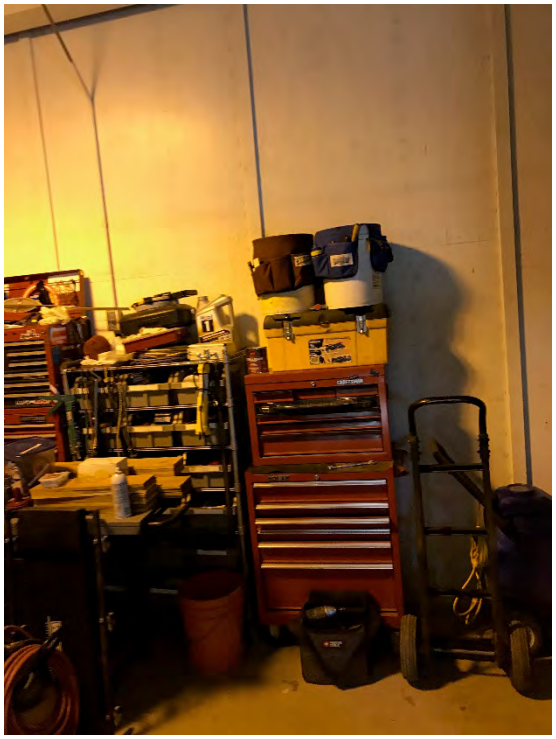


Photos 7 and 8: TSO - Lead wipe sample TSO-003 on the orange shelf that holds up lighting (left) and lead wipe sample TSO-004 on the overhead ducting (right).

KOTZEBUE



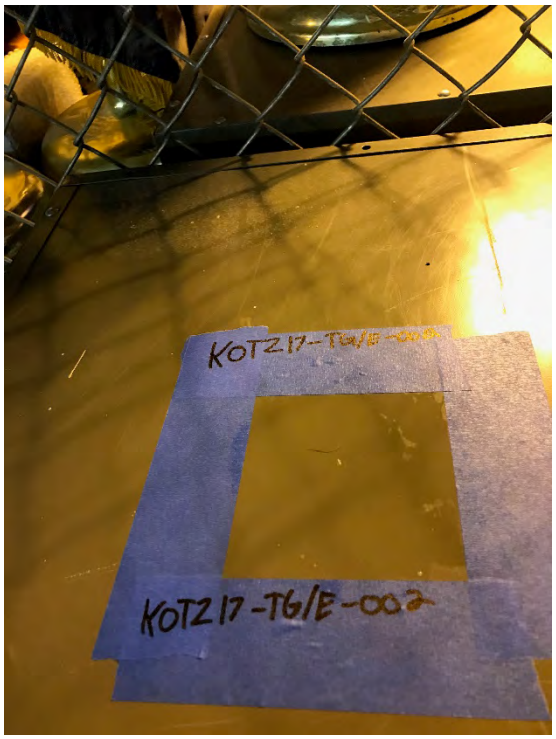
Photos 9 and 10: Trooper Garage/Evidence Room (TG/E) – North view (left) and south view (right).




Photos 11 and 12: TG/E – Tool room east wall with toolboxes (left) and west wall with cabinets/shelves (right).

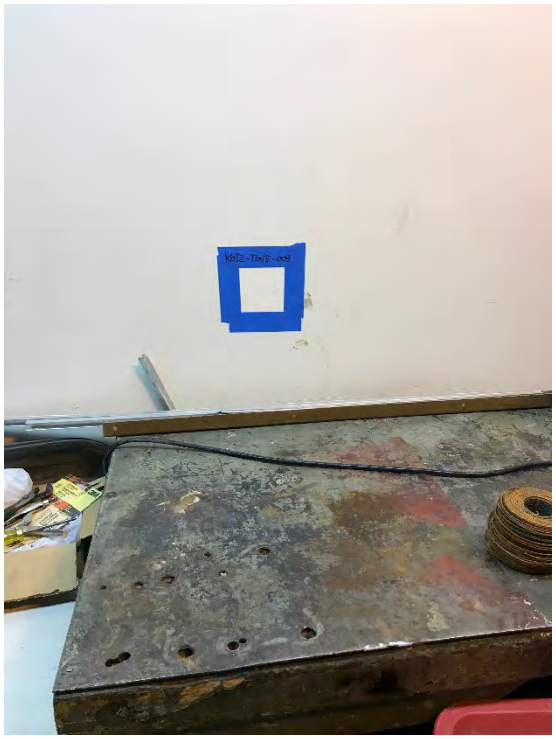
KOTZEBUE

Photos 13 and 14: TG/E – Lead wipe sample TG/E-001 on the top of a locker in front of evidence room close (left) and far view (right).



Photos 15 and 16: TG/E – Lead wipe sample TG/E-002 on the top of a storage locker in front of tool room close (left) and far view (right).

KOTZEBUE




Photos 17 and 18: TG/E – Lead wipe sample TG/E-003 on the west wall (left) and sample TG/E-004 on the NE table (right).

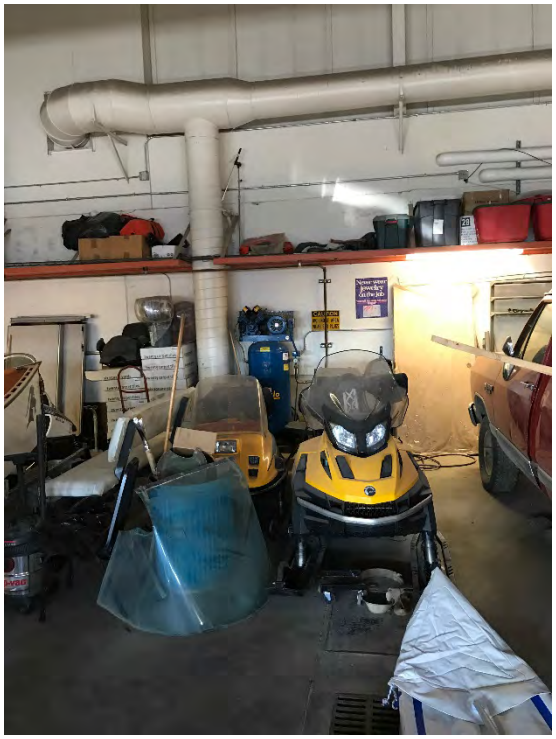

Photos 19 and 20: TG/E – Tools, equipment, and work bench (left) and lead wipe sample TG/E-005 from the floor in front of the evidence safe (right).

KOTZEBUE

Photos 21 and 22: Guard Garage (GG) – Workbench on east wall (left) and stored objects in the north east corner (right).

Photos 23 and 24: GG – Pickup truck (left) and boat (right) parked in the two bays of the Guard Garage.

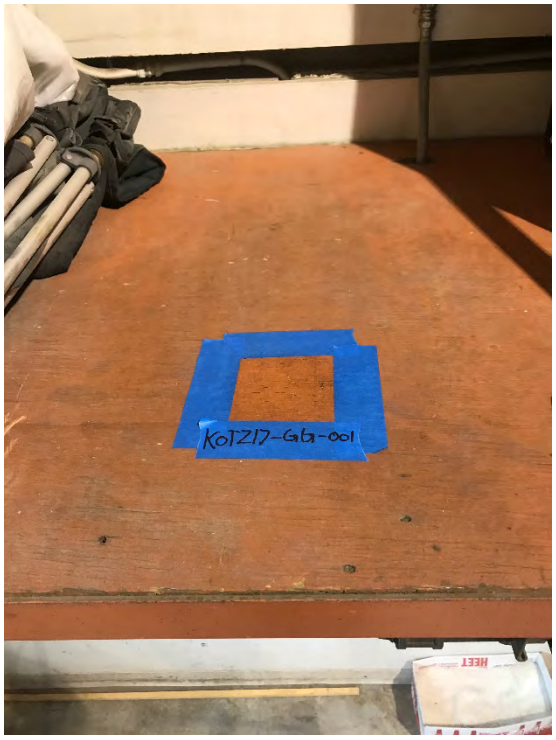
KOTZEBUE



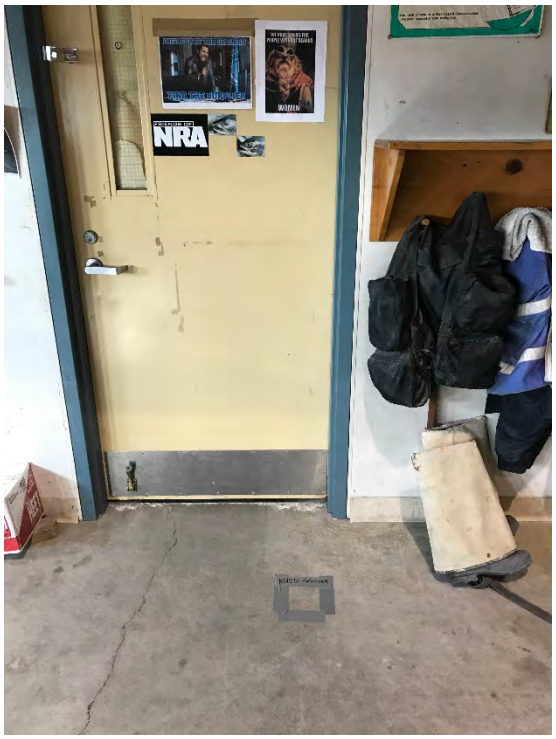

Photos 25 and 26: GG – Snowmachines parked in the garage (left) and cleaning waste wrapped up and labeled for overnight storage (right).


Photos 27 and 28: GG – Dusty ducting on the North during cleaning (left) and storage objects/clutter on the contaminated orange shelf before cleaning (right).

KOTZEBUE

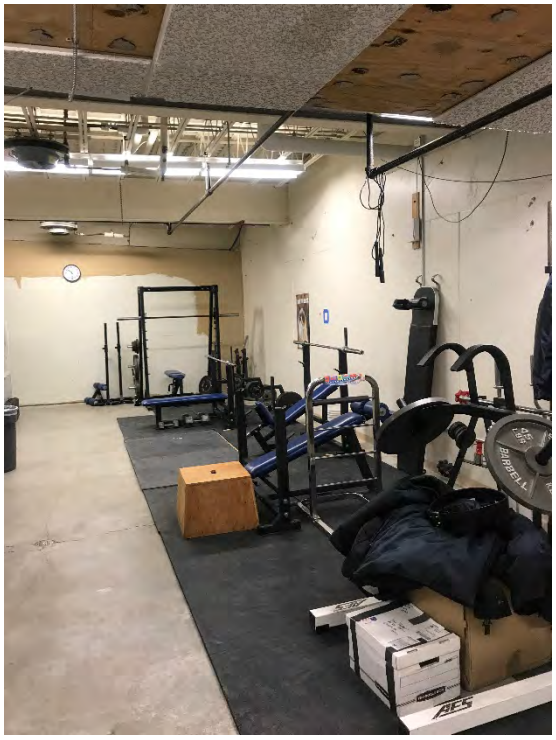


Photos 29 and 30: GG – Lead wipe sample GG-001 on the overhead orange shelving (left) and sample GG-002 on the east wall workbench (right).

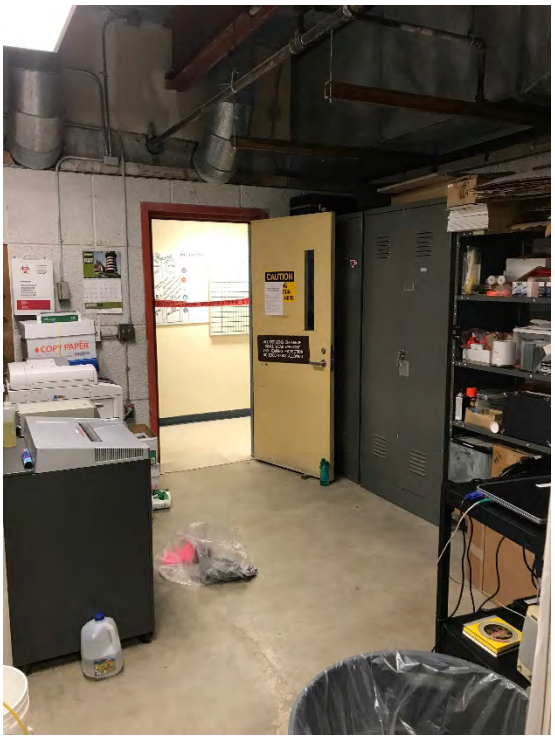


Photos 31 and 32: GG – Lead wipe sample GG-003 on the floor in front of the west offices (left) and sample GG-004 on the east wall (right).

KOTZEBUE



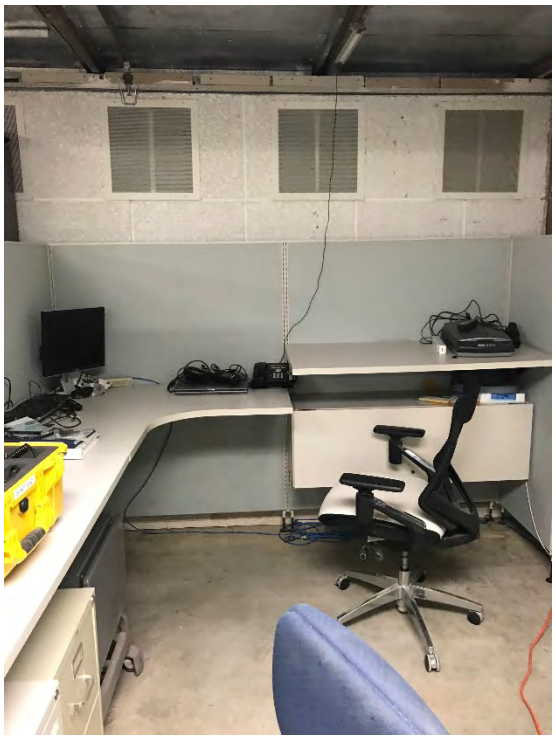

Photos 33 and 34: Squad Room (SR) – Weight area along south wall (left) and cubicle office along north wall (right).

Photos 35 and 36: SR – Cubicle office along south wall (left) and entry/printer area (right).

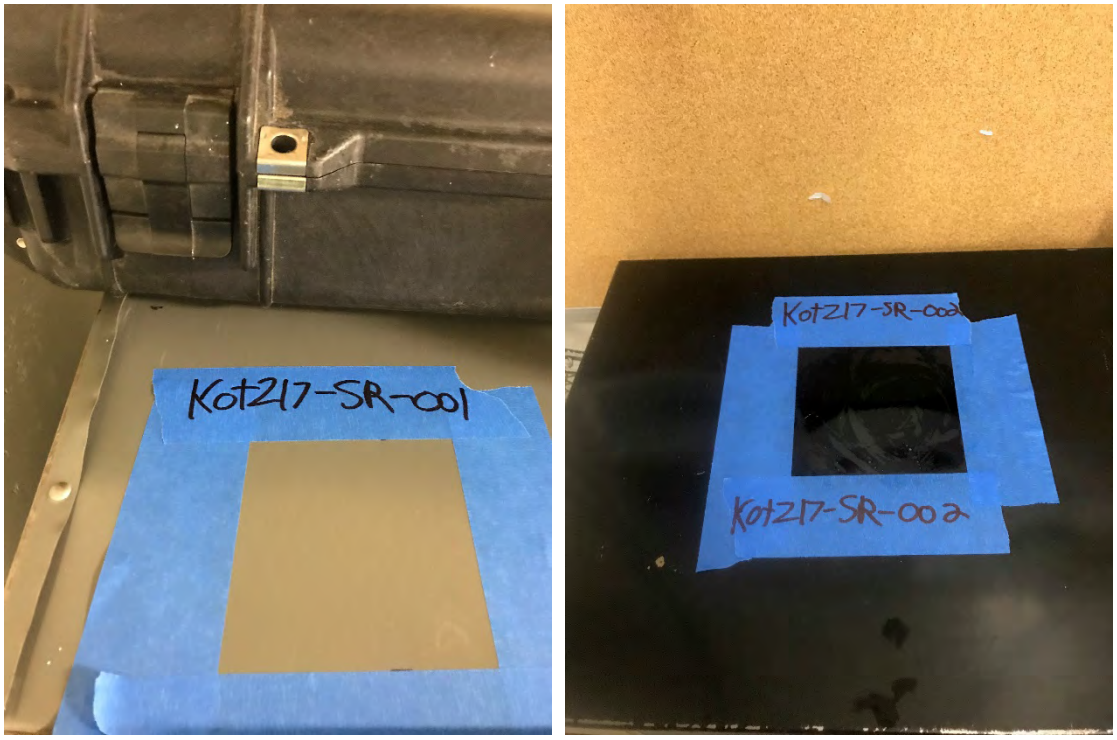
KOTZEBUE


Photos 37 and 38: SR – Attic/duct area before cleaning (left) and worker in full PPE cleaning the attic area (right).




Photos 39 and 40: SR – Cubicle office on the west wall (left) and eastward view of the entire room (right).

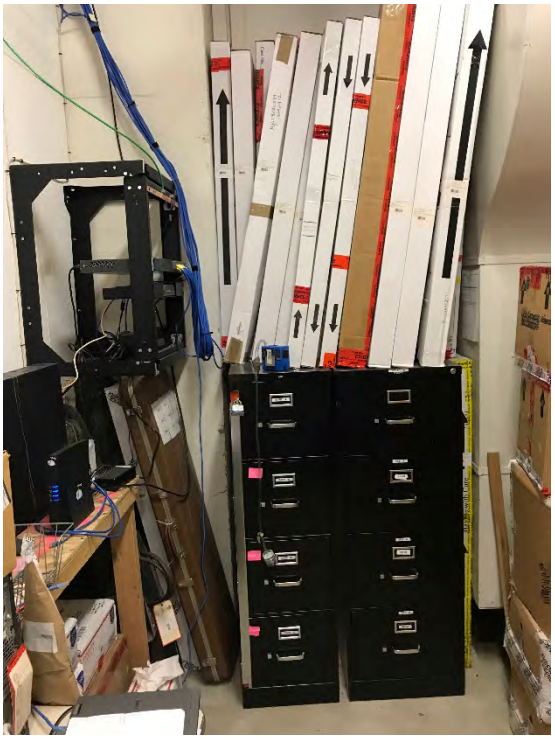
KOTZEBUE



Photos 40 and 41: SR – Lead wipe sample SR-001 on top of office locker (left) and sample SR-002 on top of office filing cabinet (right).

Photos 42 and 43: SR – Lead wipe sample SR-003 on south wall (left) and sample SR-004 on floor of south cubicle office (right).

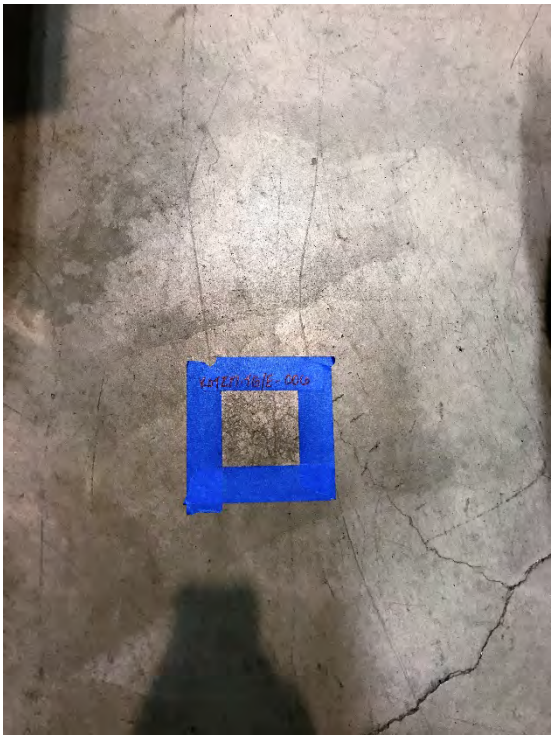
KOTZEBUE



Photos 44 and 45: TG/E – Air sampling pump on the east (left) and north (right) sides of the evidence closet.

Photos 46 and 47: TG/E – Rafters and overhead pipe (left) and shelving/objects on the east wall (right).

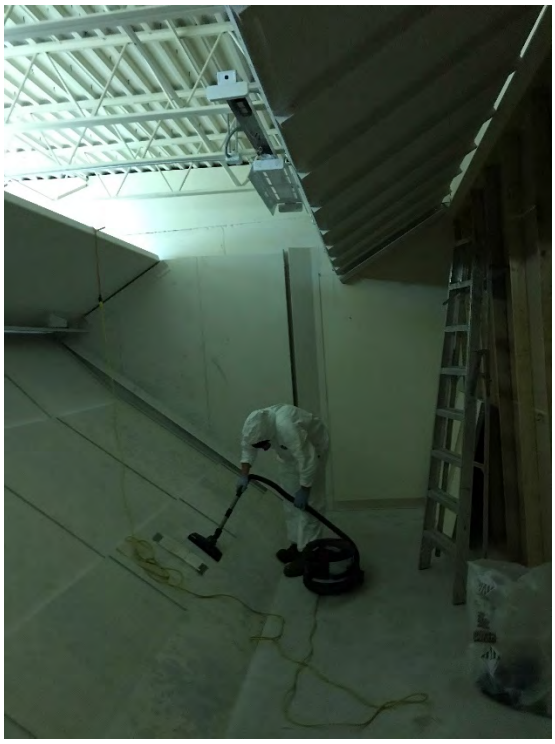
KOTZEBUE



Photos 48 and 49: TG/E – Worker in full PPE cleaning the evidence closet (left) and sample TG/E-006 taken on the floor of the evidence closet (right).


Photos 50 and 51: TG/E – Door knob to the Firing Range Recycle Room/backstop room (FRRR) drilled out (left) and north view of the backside of the backstop (right).

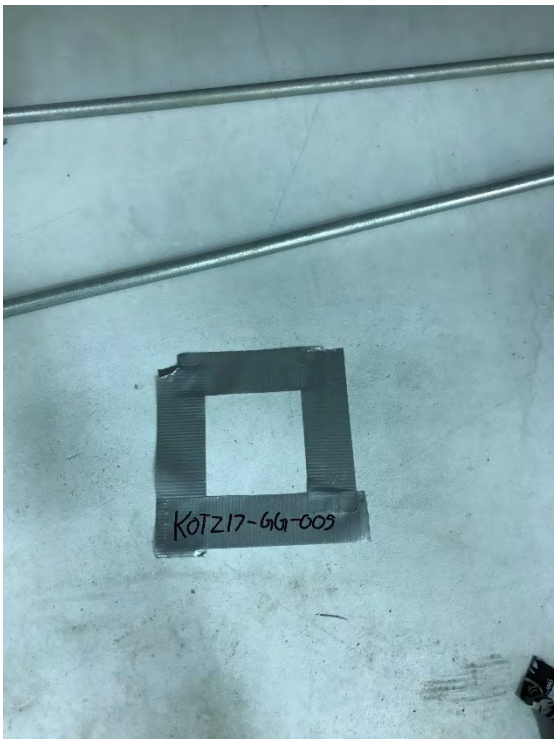
KOTZEBUE

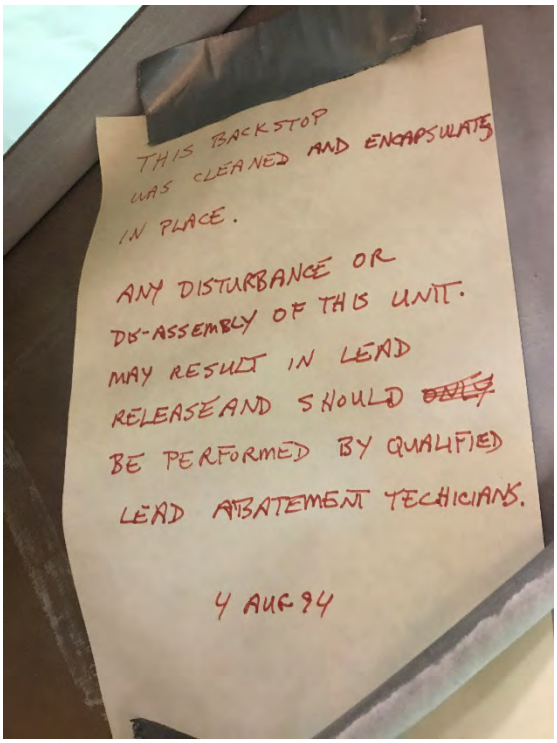



Photos 52 and 53: TG/E – Fully suited worker cleaning in the FRRR (left) and view of overhead rafters in the FRRR (right).


Photos 54 and 55: TG/E – Floor in the FRRR before cleaning (left) and clean FRRR floor after HEPA vacuuming (right).

KOTZEBUE





Photos 56 and 57: TG/E – Lead wipe sample TG/E-005 on the FRRR floor (left) and old sign posted in the FRRR (right).

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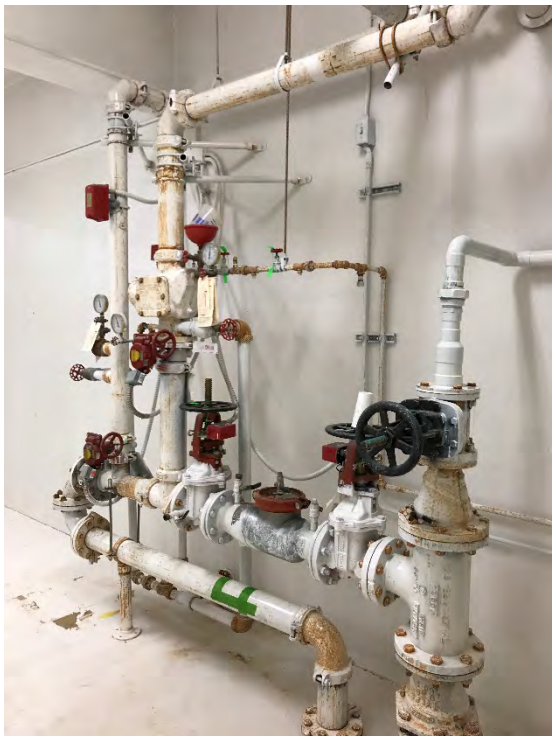
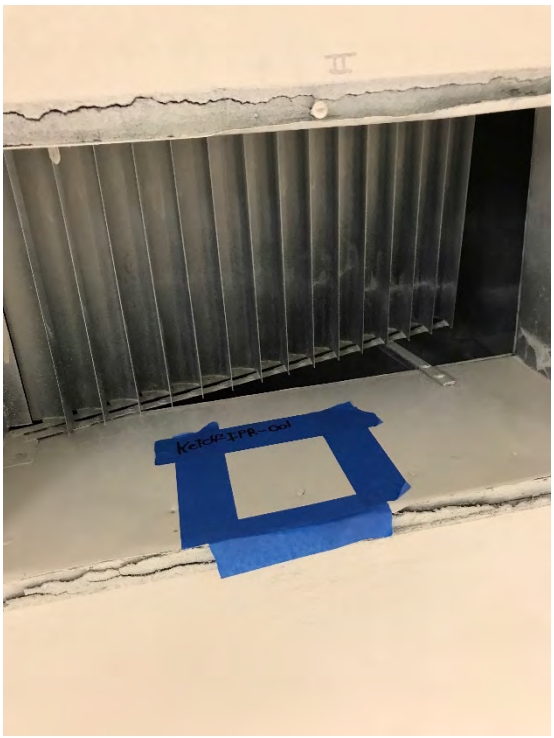
Photos 58 and 59: The former Indoor Firing Range (IFR) (left) and bullet backstop (right).

Photos 60 and 61: IFR - Mechanical/plumbing piping (left) and lead wipe sample IFR-001 collected from a vent (right).

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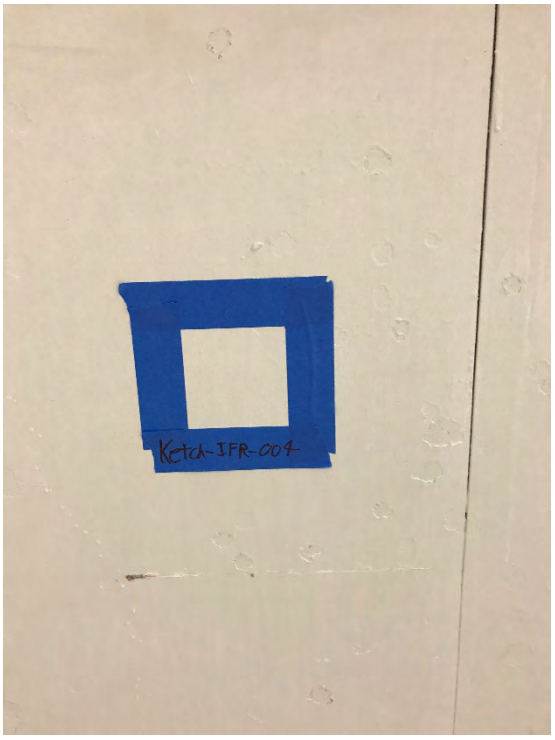
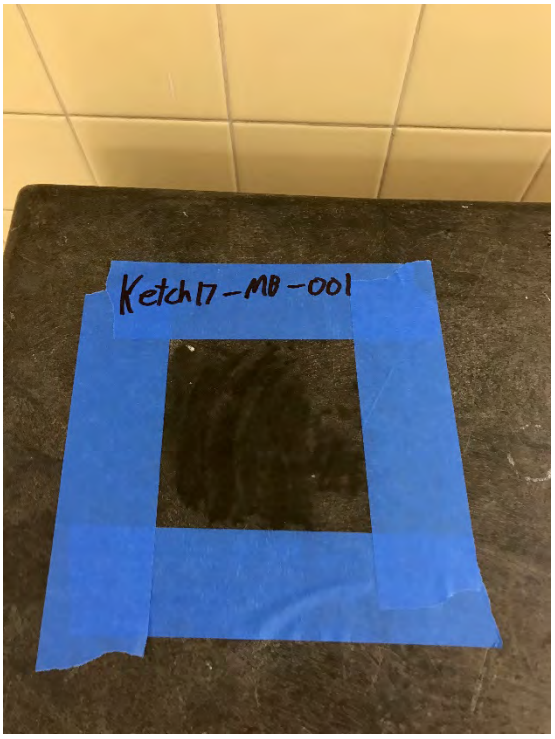


Photos 62 and 63: IFR - View of the IFR North wall with vents (left) and lead wipe sample IFR-004 taken from the bullet backstop (right).



Photos 64 and 65: Men's bathroom (left) and lead wipe sample collected from the top of a trash can in the men's bathroom (right).

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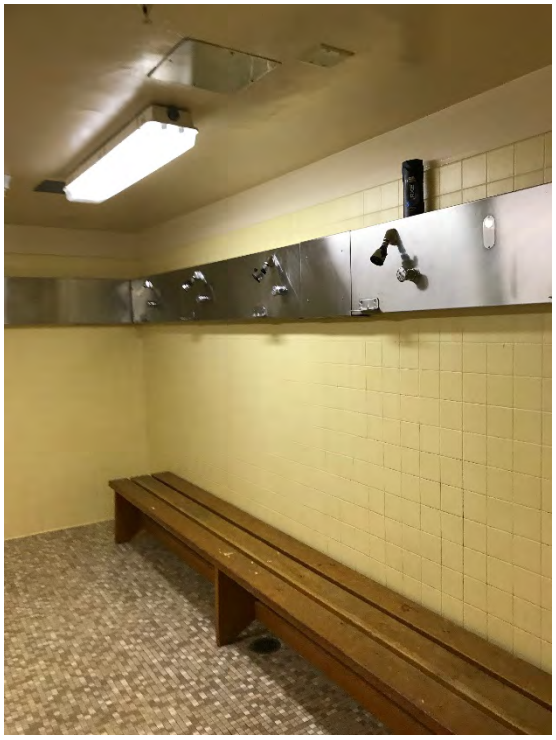
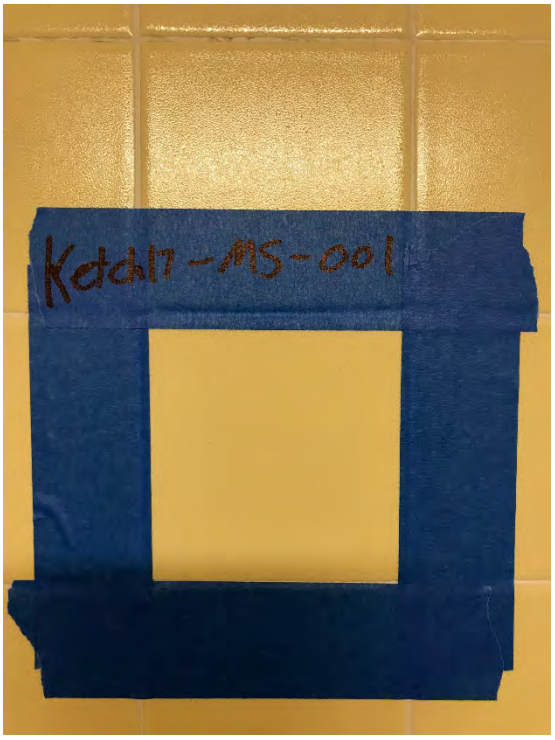
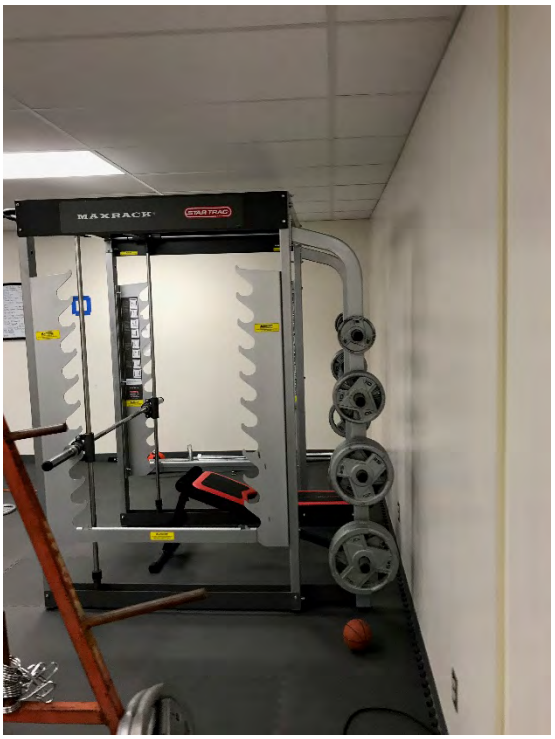



Photos 66 and 67: Men's shower room (left) and lead wipe sample collected from wall tile in the men's shower room (right).

Photos 68 and 69: Northeast corner of the physical fitness room (PFR) (left) and southwest corner of the PFR (right).

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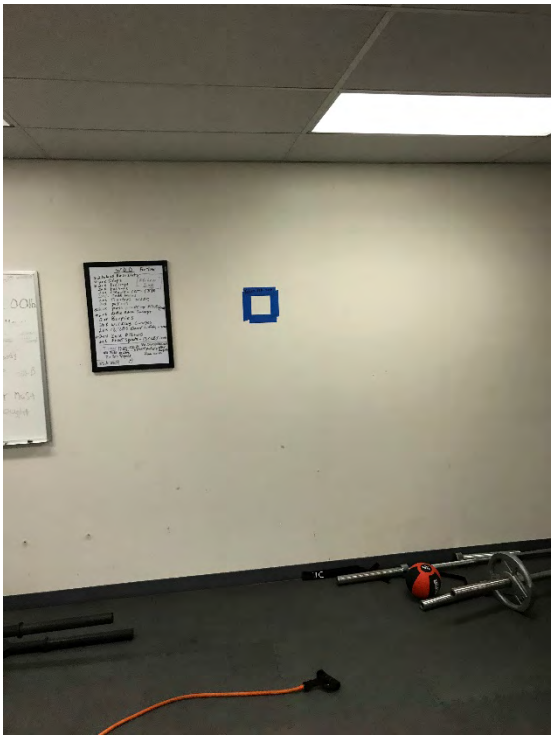
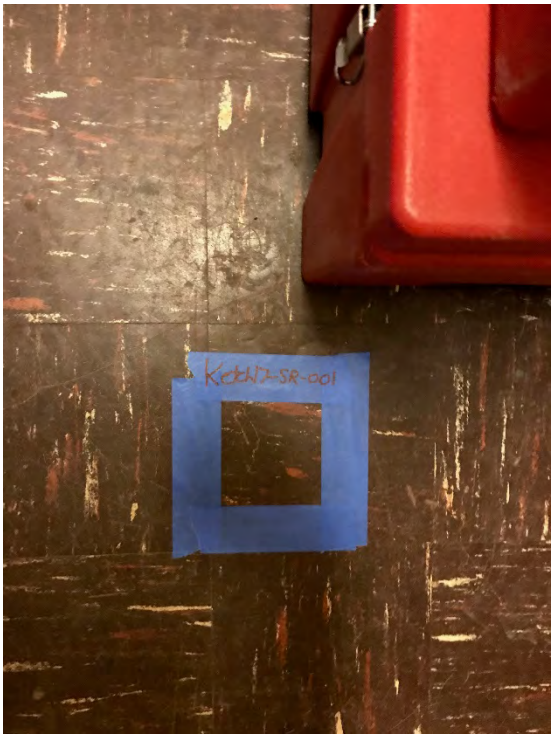
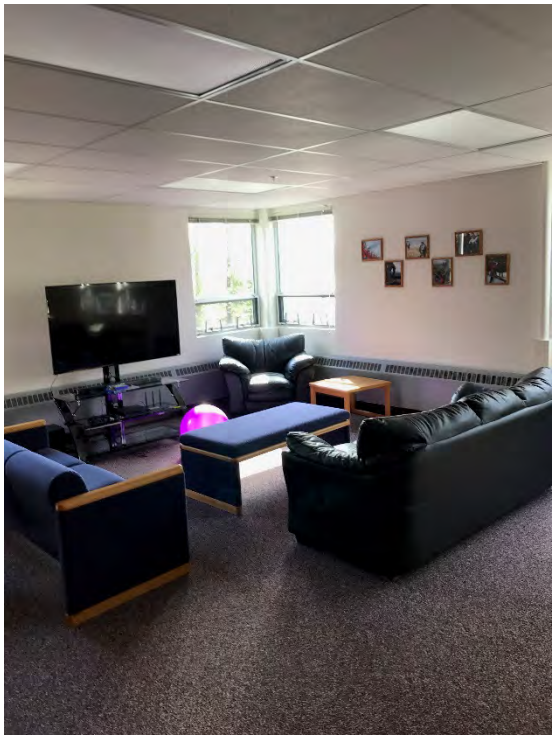
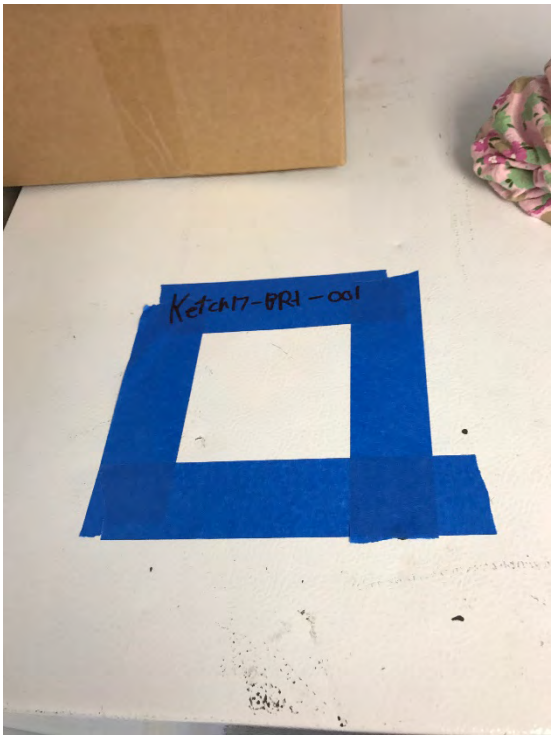


Photos 70 and 71: Lead wipe sample of the stereo table in the PFR (left) and lead wipe sample of the southern wall in the PFR (right).

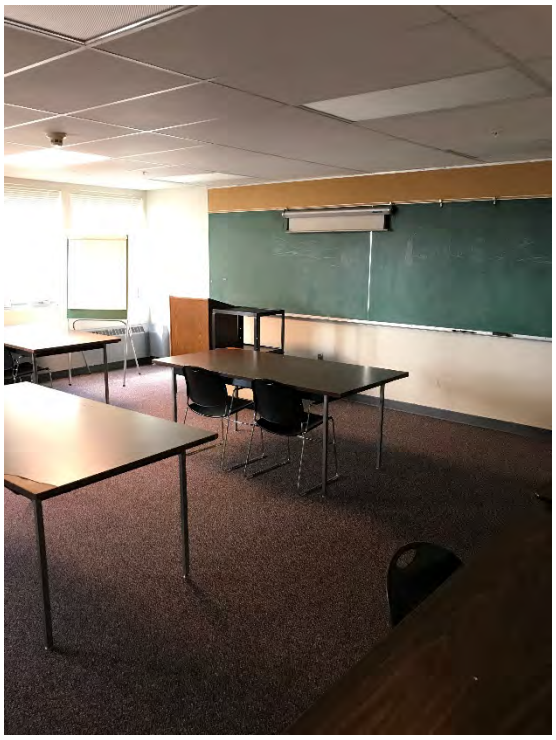



Photos 72 and 73: East view of the supply room/closet (left) and lead wipe sample taken on the 9x9 tile on the supply room floor (right).

KETCHIKAN

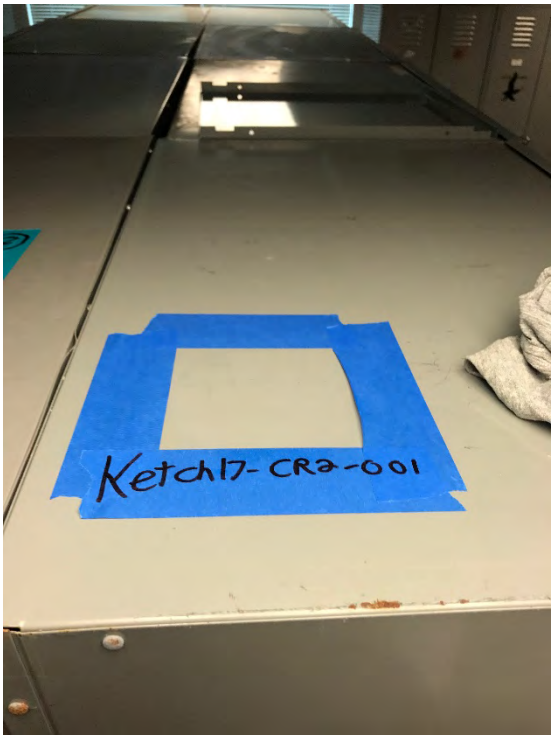



Photos 74 and 75: Breakroom (left) and lead wipe sample from top of breakroom refrigerator (right).

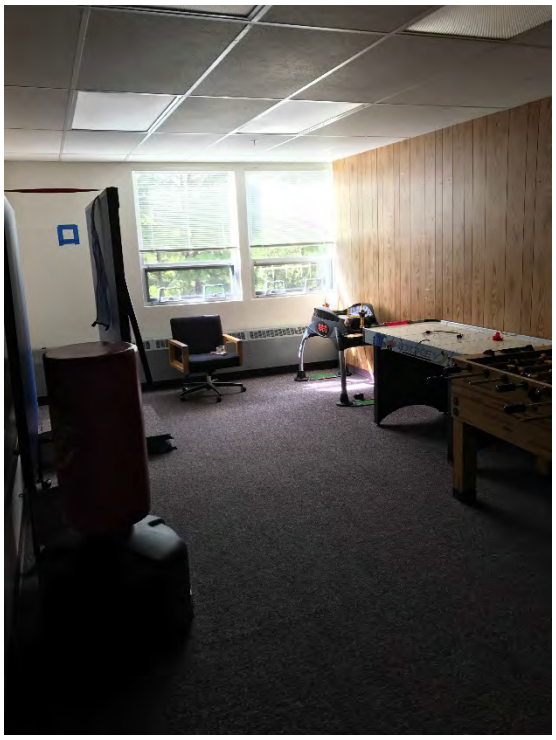



Photos 76 and 77: Classroom three (left) and lead wipe sample taken from top of desk in classroom three (right).

KETCHIKAN

Photos 78 and 79: Classroom two (left) and lead wipe sample from top of locker in classroom two (right).




Photos 80 and 81: Classroom one with sample location on south wall (left) and drill floor/gymnasium (right).

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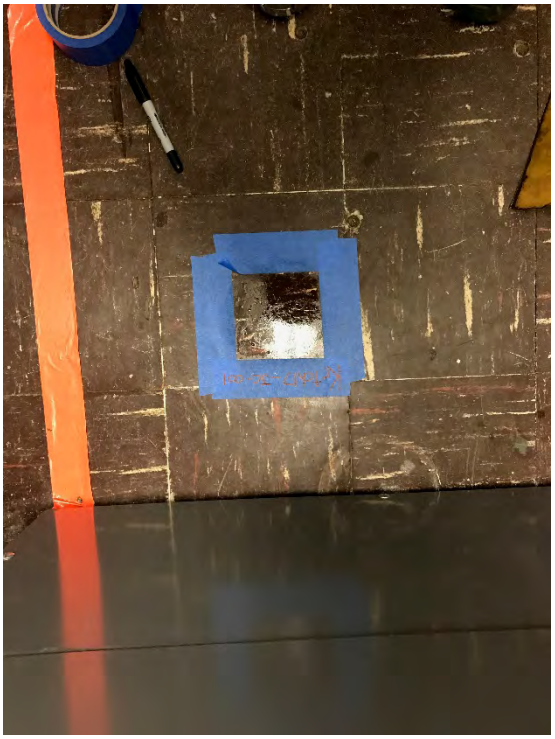
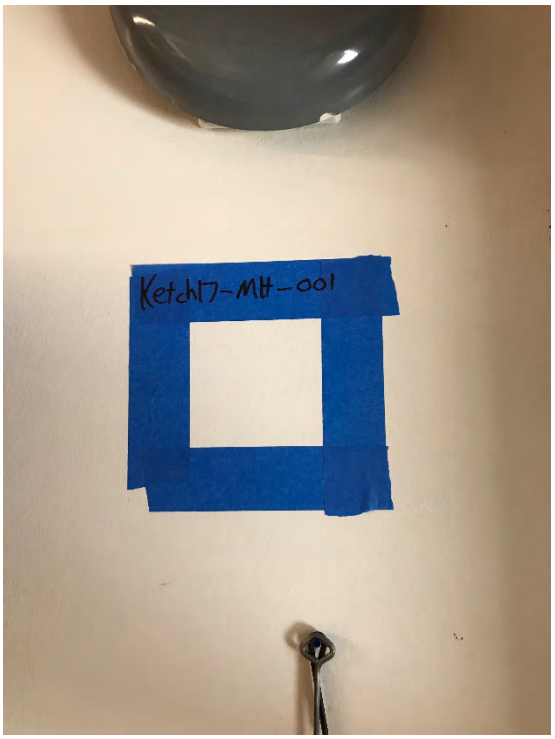
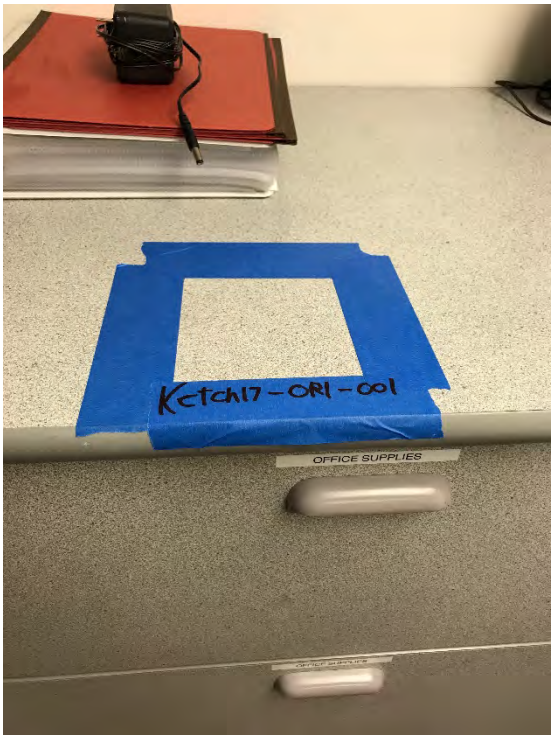


Photos 82 and 83: Lead wipe samples taken from the north side of the drill floor (left) and the middle of the north janitor's closet floor (right).



Photos 84 and 85: North entrance to main hallway after setting up as a regulated area (left) and lead wipe sample near the entrance of the main hallway (right).

KETCHIKAN



Photos 86 and 87: Office one (left) and lead wipe sample on filing cabinet in office one (right).

Photos 88 and 89: Office two (left) and lead wipe sample on desk in office two (right).

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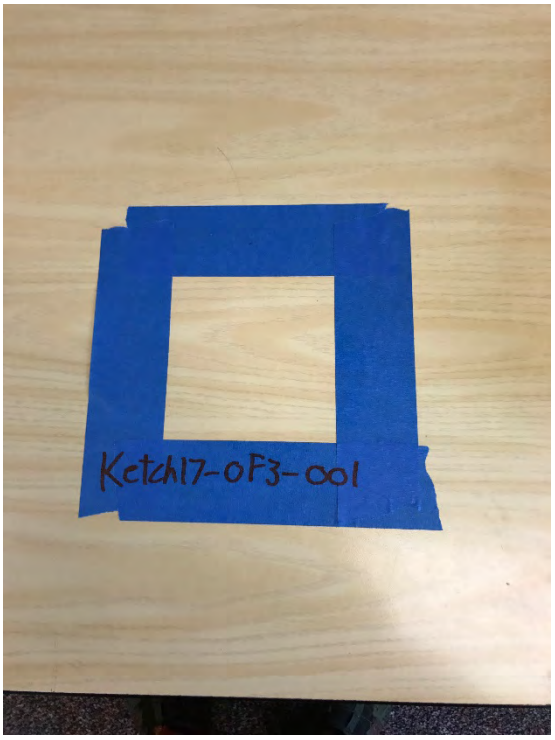
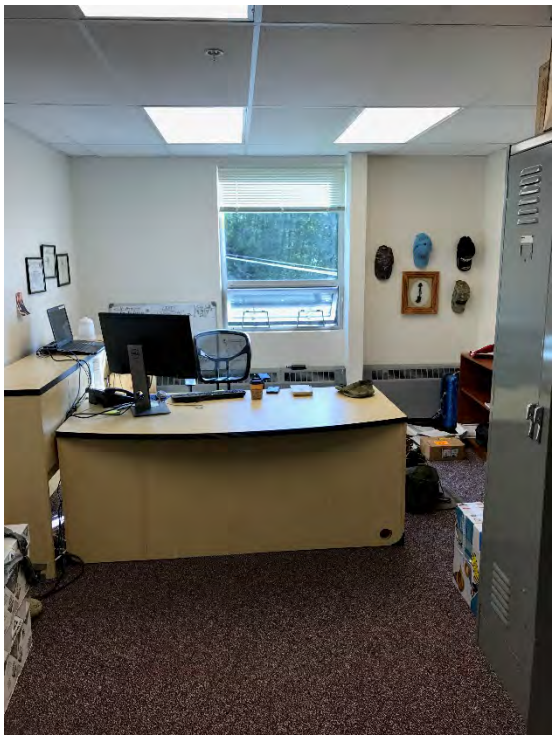
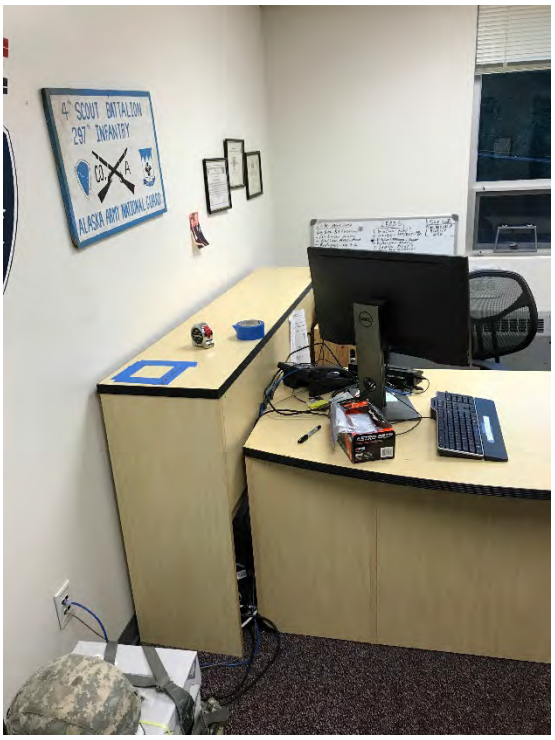


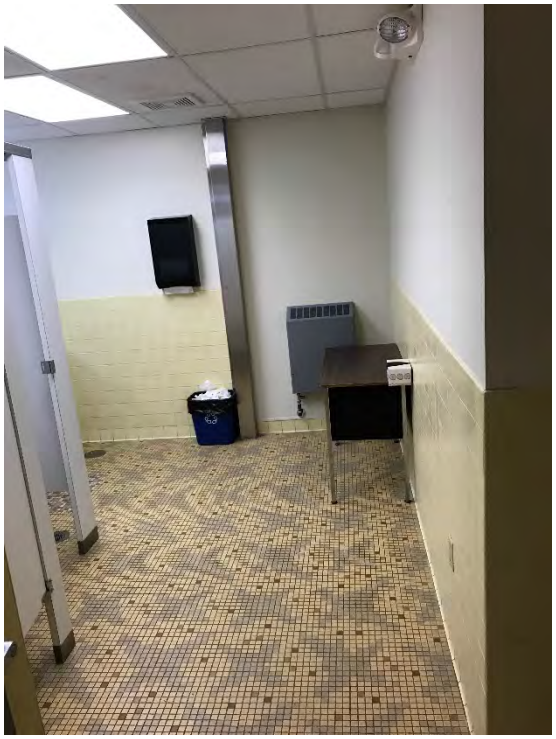
Photos 90 and 91: Office three (left) and lead wipe sample on desk in office three (right).

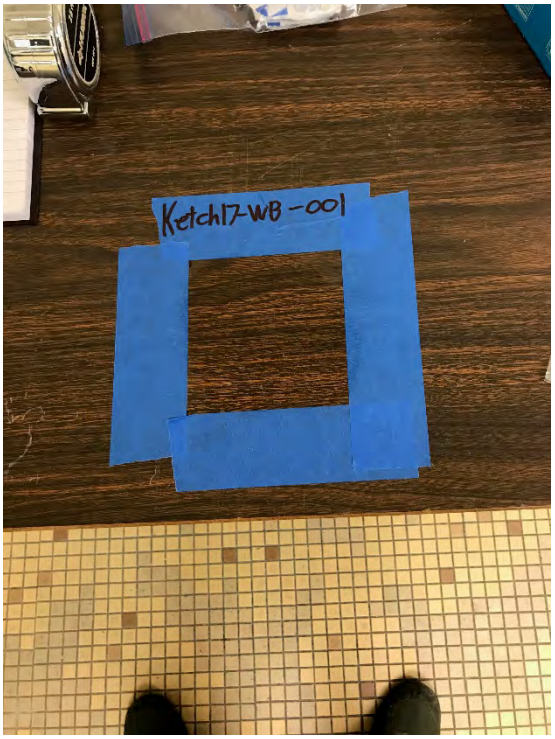




Photos 92 and 93: Office four (left) and lead wipe sample on bookshelf in office four (right).

KETCHIKAN





Photos 94 and 95: Women's bathroom (left) and lead wipe sample from surface of table in women's bathroom (right).

APPENDIX D

LAB RESULTS

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WHITE ENVIRONMENTAL CONSULTANTS INC.
363 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-6661

Lead Wipe (Dust)

WL Project #: LA-025420

Report #: 634824
Report By: R. Briggs
Report Date: 09/14/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 17

Project Name/Location: Ketchikan Armory

Collected By: Client
Collection Date: 09/07/2017
Analysis By: J. Hicklin
Analysis Date: 09/13/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WL ID #	Sample Type	Result	ugft2	Reporting Limit (ug/ft2)
Ketch17-0F1-001	AL17-3053	Area	<6	ug/ft2	6
Ketch17-0F2-002	AL17-3054	Area	<6	ug/ft2	6
Ketch17-0F3-001	AL17-3055	Area	<6	ug/ft2	6
Ketch17-0F4-001	AL17-3056	Area	<6	ug/ft2	6
Ketch17-CR3-001	AL17-3057	Area	<6	ug/ft2	6
Ketch17-CR2-001	AL17-3058	Area	<6	ug/ft2	6
Ketch17-CR1-001	AL17-3059	Area	<6	ug/ft2	6
Ketch17-BR1-001	AL17-3060	Area	<6	ug/ft2	6
Ketch17-WB-001	AL17-3061	Area	<6	ug/ft2	6
Ketch17-WB-Blank	AL17-3062	Field Blank	<6	ug/wipe	N/A
Ketch17-JC-001	AL17-3063	Area	<6	ug/ft2	6
Ketch17-DF-001	AL17-3064	Area	<6	ug/ft2	6
Ketch17-DF-002	AL17-3065	Area	<6	ug/ft2	6
Ketch17-DF-003	AL17-3066	Area	<6	ug/ft2	6
Ketch17-DF-004	AL17-3067	Area	<6	ug/ft2	6
Ketch17-MH-001	AL17-3068	Area	<6	ug/ft2	6
Ketch17-DF-Blank	AL17-3069	Field Blank	<6	ug/wipe	N/A

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Wipe (Dust)

WL Project #: LA-025420

Report #: 634824
Report By: R. Briggs
Report Date: 09/14/2017

Joel Hicklin, Laboratory Technical Manager — 09/14/2017 Date

09/14/2017 Date

Preparation is performed according to ASTM 1644-M (M). Analysis is performed according to NIOSH Method 7082 (M). The Reporting Limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. It is the responsibility of the client to determine whether wipe samples meet ASTM requirements. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab ID# 102739). Test reports must not be reproduced without the approval WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025420

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 9/11/17 P.O #

Customer Name: Brice Engineering

Project Name: Ketchikan Armory Project #:

Billing Address: 3800 CenterPoint Drive, Suite 600 City: Anchorage State: AK Zip Code: 99503

Phone: Cell: 907-799-1622

Send report via (choose one): Email: cleigh@briceenvironmental.com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9.11.17 Time: 11:10 (am)/pm

Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:24 (am)/pm

Samples Analysis Type: PCM PLM TEM (LEAD) TCLP MOLD Other (specify)

PAYMENT ATTACHED Y N Composite: Y N

Turn-around Time: SAME DAY NEXT DAY ~~2-DAY~~ (3-DAY) 5-DAY per JH auth by CL

Method of Payment: CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH

	Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
1	Ketch17-OF1-001	9.7.17	3	Lead	Office 1 - Top of file cabinet		
2	Ketch17-OF2-001	↓	↓	↓	office 2 - Top of DESK		
3	Ketch17-OF3-001				office 3 - Top of DESK		
4	Ketch17-OF4-001				office 4 - Top of DESK		
5	Ketch17-CR3-001				Classroom 3 - Top SW table		
6	Ketch17-CR2-001				Classroom 2 - Top of locker		
7	Ketch17-CR1-001				Classroom 1 - South wall		
8	Ketch17-BR1-001				Breakroom - Top of fridge		
9	Ketch17-WB-001				Women Bathroom - top of table		
10	Ketch17-WB-Blank				Field blank		
11	Ketch17-JC-001				Janitor Closet - Floor		
12	Ketch17-DF-001				Drill Floor - North		
13	Ketch17-DF-002				Drill Floor - South		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date:_____ P.O #_____

Customer Name:_____

Project Name:_____ Project #: _____

Billing Address: _____ City:_____ State:____ Zip Code:_____

Phone: _____ Cell:_____

Send report via (choose one): Email: _____ **or Fax:**_____

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:** _____

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print):_____ Date:_____ Time:_____ am/pm

Samples Received By (please print):_____ Date:_____ Time:_____ am/pm

Samples Analysis Type: **PCM PLM TEM LEAD TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY 2-DAY 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD ACCOUNT WALK-IN WALK-IN-RUSH**

	Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
14	Ketch17-DF-003	9.7.17	2	lead	Drill Floor - West		
15	Ketch17-DF-004	↓	↓	↓	Drill Floor - East		
16	Ketch17MH-001				Main hall - NW wall by door		
17	Ketch17-DF-Blank				Field Blank		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

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383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-6661

Lead Wipe (Dust)

WL Project #: LA--025421

Report #: 634841
Report By: R. Briggs
Report Date: 09/14/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 15

Project Name/Location: WEC: Ketchikan Armory

Collected By: Client
Collection Date: 09/06/2017
Analysis By: J. Hicklin
Analysis Date: 09/14/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WL ID #	Sample Type	Result	ugft2	Reporting Limit (ug/ft2)
Ketch17-IFR-001	AL17-3144	Area	<1	ug/ft2	6
Ketch17-IFR-002	AL17-3145	Area	<6	ug/ft2	6
Ketch17-IFR-003	AL17-3146	Area	<6	ug/ft2	6
Ketch17-IFR-004	AL17-3147	Area	<6	ug/ft2	6
Ketch17-IFR-005	AL17-3148	Area	<6	ug/ft2	6
Ketch17-SR-001	AL17-3149	Area	<6	ug/ft2	6
Ketch17-SR-Blank	AL17-3150	Blank	<6	ug/wipe	N/A
Ketch17-HIFR-001	AL17-3151	Area	<6	ug/ft2	6
Ketch17-HIFR-002	AL17-3152	Area	<6	ug/ft2	6
Ketch17-HIFR-003	AL17-3153	Area	<6	ug/ft2	6
Ketch17-MS-001	AL17-3154	Area	<6	ug/ft2	6
Ketch17-MB-001	AL17-3155	Area	<6	ug/ft2	6
Ketch17-PFR-001	AL17-3156	Area	<6	ug/ft2	6
Ketch17-PFR-002	AL17-3157	Area	<6	ug/ft2	6
Ketch17-PFR-Blank	AL17-3158	Blank	<6	ug/wipe	N/A

Joel Hicklin, Laboratory Technical Manager — 09/14/2017 Date

Grant Cardiff — 09/14/2017 Date

Preparation is performed according to ASTM 1644-M (M). Analysis is performed according to NIOSH Method 7082 (M). The Reporting Limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. It is the responsibility of the client to determine whether wipe samples meet ASTM requirements. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab ID# 102739). Test reports must not be reproduced without the approval WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025421

WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: _____ P.O # _____

Customer Name: Brice Engineering

Project Name: Ketchikan Armory Project #: _____

Billing Address: 3800 Centerpoint Drive Suite 410 City: Anchorage State: AK Zip Code: 99503

Phone: _____ Cell: 907-799-1622

Send report via (choose one): (Email): Cleigh@Briceenvironmental.com **or Fax:** _____

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:** _____

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9/11/17 Time: _____ am/pm

Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

~~Sample~~ Ketch17-MB-Blank

	Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
1	Ketch17-IFR-001	9/6/17	2	Lead	North Vent opening		
2	Ketch17-IFR-002	↓	↓	↓	Middle of Room - floor		
3	Ketch17-IFR-003				South Wall		
4	Ketch17-IFR-004				East Side of Backstop		
5	Ketch17-IFR-005				Western-most Ceiling Beam		
6	Ketch17-SR-001				Middle of Room - Floor		
7	Ketch17-SR-Blank				Field Blank		
8	Ketch17-HIFR-001				West wall - top of heater		
9	Ketch17-HIFR-002				West Wall on Stairs to IFR		
10	Ketch17-HIFR-003				East Wall - Top of table by Stairs		
11	Ketch17-MS-001				South wall tiles		
12	Ketch17-MB-001				West wall - Top of trash Can		
13	Ketch17-PPR-001				North table with Stereo		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date:_____ P.O #_____

Customer Name:_____

Project Name:_____ Project #: _____

Billing Address: _____ City:_____ State:____ Zip Code:_____

Phone: _____ Cell:_____

Send report via (choose one): Email: _____ **or Fax:**_____

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:** _____

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print):_____ Date:_____ Time:_____ am/pm

Samples Received By (please print):_____ Date:_____ Time:_____ am/pm

Samples Analysis Type: **PCM PLM TEM LEAD TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY 2-DAY 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD ACCOUNT WALK-IN WALK-IN-RUSH**

	Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
14	Ketch17-PFR-002	9/6/17	2	Lead	South wall		
15	Ketch17-PFR-Blank	9/6/17	2	Lead	Field Blank		
		Sample	Ketch17-MB-Blank				
		included	but	not	listed	on	
		COC	JH				

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

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383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-6661

Lead Wipe (Dust)

WL Project #: LA--025421

Report #: 634841
Report By: R. Briggs
Report Date: 09/14/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 15

Project Name/Location: WEC: Ketchikan Armory

Collected By: Client
Collection Date: 09/06/2017
Analysis By: J. Hicklin
Analysis Date: 09/14/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WL ID #	Sample Type	Result	ugft2	Reporting Limit (ug/ft2)
Ketch17-IFR-001	AL17-3144	Area	<1	ug/ft2	6
Ketch17-IFR-002	AL17-3145	Area	<6	ug/ft2	6
Ketch17-IFR-003	AL17-3146	Area	<6	ug/ft2	6
Ketch17-IFR-004	AL17-3147	Area	<6	ug/ft2	6
Ketch17-IFR-005	AL17-3148	Area	<6	ug/ft2	6
Ketch17-SR-001	AL17-3149	Area	<6	ug/ft2	6
Ketch17-SR-Blank	AL17-3150	Blank	<6	ug/wipe	N/A
Ketch17-HIFR-001	AL17-3151	Area	<6	ug/ft2	6
Ketch17-HIFR-002	AL17-3152	Area	<6	ug/ft2	6
Ketch17-HIFR-003	AL17-3153	Area	<6	ug/ft2	6
Ketch17-MS-001	AL17-3154	Area	<6	ug/ft2	6
Ketch17-MB-001	AL17-3155	Area	<6	ug/ft2	6
Ketch17-PFR-001	AL17-3156	Area	<6	ug/ft2	6
Ketch17-PFR-002	AL17-3157	Area	<6	ug/ft2	6
Ketch17-PFR-Blank	AL17-3158	Blank	<6	ug/wipe	N/A

Joel Hicklin, Laboratory Technical Manager — 09/14/2017 Date

Grant Cardiff — 09/14/2017 Date

Preparation is performed according to ASTM 1644-M (M). Analysis is performed according to NIOSH Method 7082 (M). The Reporting Limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. It is the responsibility of the client to determine whether wipe samples meet ASTM requirements. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab ID# 102739). Test reports must not be reproduced without the approval WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025421

WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: _____ P.O # _____

Customer Name: Brice Engineering

Project Name: Ketchikan Armory Project #: _____

Billing Address: 3800 Centerpoint Drive Suite 410 City: Anchorage State: AK Zip Code: 99503

Phone: _____ Cell: 907-799-1622

Send report via (choose one): (Email): Cleigh@Briceenvironmental.com **or Fax:** _____

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:** _____

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9/11/17 Time: _____ am/pm

Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

~~Sample~~ Ketch17-MB-Blank

	Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
1	Ketch17-IFR-001	9/6/17	2	Lead	North Vent opening		
2	Ketch17-IFR-002	↓	↓	↓	Middle of Room - floor		
3	Ketch17-IFR-003				South Wall		
4	Ketch17-IFR-004				East Side of Backstop		
5	Ketch17-IFR-005				Western-most Ceiling Beam		
6	Ketch17-SR-001				Middle of Room - Floor		
7	Ketch17-SR-Blank				Field Blank		
8	Ketch17-HIFR-001				West wall - top of heater		
9	Ketch17-HIFR-002				West Wall on Stairs to IFR		
10	Ketch17-HIFR-003				East Wall - Top of table by Stairs		
11	Ketch17-MS-001				South wall tiles		
12	Ketch17-MB-001				West wall - Top of trash Can		
13	Ketch17-PPR-001				North table with Stereo		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date:_____ P.O #_____

Customer Name:_____

Project Name:_____ Project #: _____

Billing Address: _____ City:_____ State:____ Zip Code:_____

Phone: _____ Cell:_____

Send report via (choose one): Email: _____ **or Fax:**_____

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:** _____

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print):_____ Date:_____ Time:_____ am/pm

Samples Received By (please print):_____ Date:_____ Time:_____ am/pm

Samples Analysis Type: **PCM PLM TEM LEAD TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY 2-DAY 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD ACCOUNT WALK-IN WALK-IN-RUSH**

	Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
14	Ketch17-PFR-002	9/6/17	2	Lead	South wall		
15	Ketch17-PFR-Blank	9/6/17	2	Lead	Field Blank		
		Sample	Ketch17-MB-Blank				
		included	but	not	listed	on	
		COC	JH				

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

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363 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-6661

Lead Air Analysis

WL Project #: LA-025423

Report #: 634833
Report By: R. Briggs
Report Date: 09/14/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 6

Project Name/Location: Ketchikan & Kotzebue Armories

Collected By: Client
Collection Date: 09/06/2017
Analysis By: J. Hicklin
Analysis Date: 09/14/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WLSample	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
KETCH17-FR/SC-001	AL17-3171	Excursion	<33	ug/M3	33
KETCH17-FR/SC-002	AL17-3172	Personal	<5	ug/M3	5
KETCH17-FR/SC-003	AL17-3173	ENV	<4	ug/M3	4
KETCH17-FF-004	AL17-3174	Excursion	<33	ug/M3	33
KETCH17-FF-005	AL17-3175	Personal	<4	ug/M3	4
KETCH17-FF-006	AL17-3176	ENV	<4	ug/M3	4

Worker TWA

Worker	Sample Date	SSN	PPE	TWA
None Noted	09/06/2017		~None Specified~	8

Joel Hicklin, Laboratory Technical Manager — 09/14/2017 Date

09/14/2017 Date

Preparation and analysis performed according to NIOSH Method 7082 (M), analysis by flame atomic absorption spectroscopy. The reporting limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab #102739). Test reports must not be reproduced without the approval of WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025423

Ketchikan Air Sample Collection Log

DATE	SAMPLE #	SAMPLE ID	FLOW	PUMP #	TIME ON	TIME OFF
09.06.17	001 EX	KETCH17-FR/SC-001	2.0 LPM	3	0915	0945
09.06.17	002 PER	KETCH17-FR/SC-002	2.0 LPM	3	0945	1300
09.06.17	003 ENV	KETCH17-FR/SC-003	2.0 LPM	6	0915	1300
09.06.17	004 EX	KETCH17-FF-004	2.0 LPM	3	1400	1430
09.06.17	005 PER	KETCH17-FF-005	2.0 LPM	3	1430	1830
09.06.17	006 ENV	KETCH17-FF-006	2.0 LPM	6	1400	1830
09.07.17	007 EX	KETCH17-FF-007	2.0 LPM	3	0715	0745
09.07.17	008 PER	KETCH17-FF-008	2.0 LPM	3	0745	1200
09.07.17	009 ENV	KETCH17-FF-009	2.0 LPM	6	0715	1200
09.07.17	010 FB	KETCH17-FB-010	N/A	N/A	N/A	N/A

LA- 025423

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 9.11.17 P.O #

Customer Name: Brice Engineering

Project Name: Ketchikan & Kotzebue Armories Project #:

Billing Address: 3800 CenterPoint Drive Suite 600 City: Anchorage State: AK Zip Code: 99503

Phone: Cell: 907-799-1672

Send report via (choose one): Email: Cleigh@BriceEnvironmental.com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9.11.17 Time: 11:10 (am)/pm

Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Air Analysis

WL Project #: LA-025422

Report #: 634834
Report By: R. Briggs
Report Date: 09/14/2017

Client: Brice Engineering
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 4

Project Name/Location: Ketchikan & Kotzebue Armories

Collected By: Client
Collection Date: 09/07/2017
Analysis By: J. Hicklin
Analysis Date: 09/14/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WLSample	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
Ketch17-FF-007	AL17-3177	Excursion	<33	ug/M3	33
Ketch17-FF-008	AL17-3178	Personal	<4	ug/M3	4
Ketch17-FF-009	AL17-3179	ENV	<4	ug/M3	4
Ketch17-FB-010	AL17-3180	Field Blank	<2	ug/filter	N/A

Worker TWA

Worker	Sample Date	SSN	PPE	TWA
None Noted	09/07/2017		~None Specified~	4

Joel Hicklin, Laboratory Technical Manager — 09/14/2017 Date

09/14/2017 Date

Preparation and analysis performed according to NIOSH Method 7082 (M), analysis by flame atomic absorption spectroscopy. The reporting limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab #102739). Test reports must not be reproduced without the approval of WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

Ketchikan Air Sample Collection Log

DATE	SAMPLE #	SAMPLE ID	FLOW	PUMP #	TIME ON	TIME OFF
09.06.17	001 EX	KETCH17-FR/SC-001	2.0 LPM	3	0915	0945
09.06.17	002 PER	KETCH17-FR/SC-002	2.0 LPM	3	0945	1300
09.06.17	003 ENV	KETCH17-FR/SC-003	2.0 LPM	6	0915	1300
09.06.17	004 EX	KETCH17-FF-004	2.0 LPM	3	1400	1430
09.06.17	005 PER	KETCH17-FF-005	2.0 LPM	3	1430	1830
09.06.17	006 ENV	KETCH17-FF-006	2.0 LPM	6	1400	1830
09.07.17	007 EX	KETCH17-FF-007	2.0 LPM	3	0715	0745
09.07.17	008 PER	KETCH17-FF-008	2.0 LPM	3	0745	1200
09.07.17	009 ENV	KETCH17-FF-009	2.0 LPM	6	0715	1200
09.07.17	010 FB	KETCH17-FB-010	N/A	N/A	N/A	N/A

LA- 025422

WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 9.11.17 P.O #

Customer Name: Price Engineering

Project Name: Ketchikan & Kotzebue Armories Project #:

Billing Address: 3800 CenterPoint Drive Suite 601 City: Anchorage State: AK Zip Code: 99503

Phone: Cell: 907-799-1672

Send report via (choose one): Email: Cleigh@PriceEnvironmental.com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9.11.17 Time: 11:10 (am)/pm

Samples Received By (please print): PBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Wipe (Dust)

WL Project #: LA-025241

Report #: 634621
Report By: G. Caudill
Report Date: 09/01/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 48 Hour **Sample Count:** 22

Project Name/Location: Kotzebue Armory

Comments: Samples Collected 8/26/17 and 8/27/17

Collected By: Client
Collection Date: 08/26/2017
Analysis By: J. Hicklin
Analysis Date: 09/01/2017
Received By: R. Briggs
Received Date: 08/30/2017

Client ID	WL ID #	Sample Type	Result	ugft2	Reporting Limit (ug/ft2)
Kotz17-SR-001	AL17-2947	Area	<6	ug/ft2	6
Kotz17-SR-002	AL17-2948	Area	<6	ug/ft2	6
Kotz17-SR-003	AL17-2949	Area	<6	ug/ft2	6
Kotz17-SR-004	AL17-2950	Area	<6	ug/ft2	6
Kotz17-SR-Blank	AL17-2951	Field Blank	<6	ug/wipe	N/A
Kotz17-TG/E-001	AL17-2952	Area	<6	ug/ft2	6
Kotz17-TG/E-002	AL17-2953	Area	<6	ug/ft2	6
Kotz17-TG/E-003	AL17-2954	Area	<6	ug/ft2	6
Kotz17-TG/E-004	AL17-2955	Area	<6	ug/ft2	6
Kotz17-TG/E-005	AL17-2956	Area	<6	ug/ft2	6
Kotz17-TG/E-006	AL17-2957	Area	<6	ug/ft2	6
Kotz17-TG/E-Blank	AL17-2958	Field Blank	<6	ug/wipe	N/A
Kotz17-GG-001	AL17-2959	Area	8	ug/ft2	6
Kotz17-GG-002	AL17-2960	Area	<6	ug/ft2	6
Kotz17-GG-003	AL17-2961	Area	<6	ug/ft2	6
Kotz17-GG-004	AL17-2962	Area	<6	ug/ft2	6
Kotz17-GG-Blank	AL17-2963	Field Blank	<6	ug/wipe	N/A
Kotz17-TS-001	AL17-2964	Area	<6	ug/ft2	6
Kotz17-TS-002	AL17-2965	Area	<6	ug/ft2	6
Kotz17-TS-003	AL17-2966	Area	<6	ug/ft2	6
Kotz17-TS-004	AL17-2967	Area	<6	ug/ft2	6
Kotz17-TS-Blank	AL17-2968	Field Blank	<6	ug/wipe	N/A

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Wipe (Dust)

WL Project #: LA-025241

Report #: 634621
Report By: G. Caudill
Report Date: 09/01/2017

Joel Hicklin, Laboratory Technical Manager — 09/01/2017 Date

09/01/2017 Date

Preparation is performed according to ASTM 1644-M (M). Analysis is performed according to NIOSH Method 7082 (M). The Reporting Limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. It is the responsibility of the client to determine whether wipe samples meet ASTM requirements. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab ID# 102739). Test reports must not be reproduced without the approval WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025241

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 8/30/17 P.O #

Customer Name: Brice Engineering

Project Name: Kotzebue Armory Project #:

Billing Address: City: State: Zip Code:

Phone: Cell: 907-799-1683

Send report via (choose one): Email: Cleigh@BriceEnvironmental.com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 8/31/17 Time: 10:50 (am)/pm

Samples Received By (please print): BRiggs Date: 8/30/17 Time: 10:50 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task Squad Room	Volume (L)	Sample Condition
KOTZ17-SR-001	8/27/17		Lead	Kotzebue Armory - Top of locker		
KOTZ17-SR-002	8/27/17		Lead	Squad Room - top of cabinet		
KOTZ17-SR-003	8/27/17		Lead	Squad Room - South wall		
KOTZ17-SR-004	8/27/17		Lead	Squad Room - Floor South Cubicle		
KOTZ17-SR-Blank	8/27/17		Lead	Field Blank - Squad Room		
KOTZ17-TG/E-001	8/26/17		Lead	Trooper Garage - TOP of east locker		
KOTZ17-TG/E-002	8/26/17		Lead	Trooper Garage - N/E Locker		
KOTZ17-TG/E-003	8/26/17		Lead	Trooper Garage - West wall		
KOTZ17-TG/E-004	8/26/17		Lead	Trooper Garage - East Table		
KOTZ17-TG/E-005	8/26/17		Lead	Trooper Garage - Floor-front of Safe		
KOTZ17-TG/E-006	8/26/17		Lead	Evidence Room - Floor		
KOTZ17-TG/E-blank	8/26/17		Lead	Field Blank		
KOTZ17-GG-001	8/27/17		Lead	Guard Garage - orange Shelves		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 8/28/17 P.O# Kotzebue Armory

Customer Name: White Engineering

Project Name: Kotzebue Armory Project #: 47010

Billing Address: 3800 Centerpoint Drive City: Anchorage State: AK Zip Code: 99503

Phone: 907 [illegible] Cell:

Send report via (choose one): Email: [illegible] **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): [illegible] Date: 8/28/17 Time: [illegible] am/pm

Samples Received By (please print): Date: Time: am/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED (Y) N Composite: Y N

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
~~KOT217-GG-003~~	~~8/27/17~~		~~Lead~~	~~Heated Garage Floor by [illegible]~~		
~~KOT217-GG-004~~						
KOT217-GG-002	8/27/17		Lead	Heated Garage - east work bench		
KOT217-GG-003	8/27/17		Lead	Heated Garage - Floor by west wall		
KOT217-GG-004	8/27/17		Lead	Heated Garage - East wall		
KOT217-GG-Blank	8/27/17		Lead	Field Blank		
KOT217-TS-001	8/26/17		Lead	East Wall		
KOT217-TS-002	8/26/17		Lead	east Desk		
KOT217-TS-003	8/26/17		Lead	west Shelf for lighting		
KOT217-TS-004	8/26/17		Lead	Overhead Ventilation Pipe		
KOT217-TS-Blank	8/26/17		Lead	Field Blank		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Wipe (Dust)

WL Project #: LA-025304

Report #: 634662
Report By: R. Briggs
Report Date: 09/05/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 48 Hour **Sample Count:** 1

Project Name/Location: Kotzebue Armory

Collected By: Client
Collection Date: 08/31/2017
Analysis By: J. Hicklin
Analysis Date: 09/05/2017
Received By: D. Moreno
Received Date: 09/01/2017

Client ID	WL ID #	Sample Type	Result	ugft2	Reporting Limit (ug/ft2)
Kotz17-GG-005	AL17-2975	Area	12	ug/ft2	6

Joel Hicklin, Laboratory Technical Manager — 09/05/2017 Date

09/05/2017 Date

Preparation is performed according to ASTM 1644-M (M). Analysis is performed according to NIOSH Method 7082 (M). The Reporting Limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. It is the responsibility of the client to determine whether wipe samples meet ASTM requirements. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab ID# 102739). Test reports must not be reproduced without the approval WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025304

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: ~~8/3~~ 9/1/17 P.O #_____

Customer Name: Brice Engineering

Project Name: Kotzebue Armory Project #: ~~Kotzebue Armory~~

Billing Address: 3800 Centerpoint Drive, Suite 700 City: Anchorage State: AK Zip Code: 99503

Phone: 907-799-1622 Cell: Same

Send report via (choose one): Email: CleighC@BriceEnvironmental.com **or Fax:**_____

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**_____

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9/1/17 Time: 2:00 am/(pm)

Samples Received By (please print): Dave Moreno Date: 9-1-17 Time: 1400 am/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition
KOTZ17-GG-0005	8/31/17	2	Lead	Firing range Recycle room		

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS INC.
363 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Air Analysis

WL Project #: LA-025427

Report #: 634814
Report By: R. Briggs
Report Date: 09/13/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 6

Project Name/Location: Ketchikan & Kotzebue Armories

Collected By: Client
Collection Date: 08/26/2017
Analysis By: J. Hicklin
Analysis Date: 09/13/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WLSample	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
001	AL17-3094	Personal	<4	ug/M3	4
002	AL17-3095	ENV	<4	ug/M3	4
003	AL17-3096	Excursion	<33	ug/M3	33
004	AL17-3097	Excursion	<33	ug/M3	33
005	AL17-3098	Personal	<4	ug/M3	4
006	AL17-3099	ENV	<3	ug/M3	3

Worker TWA

Worker	Sample Date	SSN	PPE	TWA
None Noted	08/26/2017		~None Specified~	8

Joel Hicklin, Laboratory Technical Manager — 09/13/2017 Date

Henry Cundill — 09/13/2017 Date

Preparation and analysis performed according to NIOSH Method 7082 (M), analysis by flame atomic absorption spectroscopy. The reporting limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab #102739). Test reports must not be reproduced without the approval of WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025427

Kotzebue Air Sample Collection Log

DATE	SAMPLE #	SAMPLE ID	FLOW	PUMP #	TIME ON	TIME OFF
8.26.17	001 PER	KOTZ17-TS-001	2.0 LPM	6	0915	1300
8.26.17	002 ENV	KOTZ17-TS-002	2.0 LPM	3	0845	1300
8.26.17	003 EX	KOTZ17-TS-003	2.0 LPM	6	0845	0915
8.26.17	004 EX	KOTZ17-TG/E-004	2.0 LPM	6	1430	1500
8.26.17	005 PER	KOTZ17-TG/E-005	2.0 LPM	6	1500	1930
8.26.17	006 ENV	KOTZ17-TG/E-006	2.0 LPM	3	1430	1930
8.27.17	007 EX	KOTZ17-GG-00-7	2.0 LPM	4	0810	0840
8.27.17	008 PER	KOTZ17-GG-008	2.0 LPM	4	0840	1700
8.27.17	009 ENV	KOTZ17-GG-009	2.0 LPM	5	0810	1700
8.27.17	010 EX	KOTZ17-SR-010	2.0 LPM	3	1700	1730
8.27.17	011 PER	KOTZ17-SR-011	2.0 LPM	3	1730	2245
8.27.17	012 ENV	KOTZ17-SR-012	2.0 LPM	6	1700	2245
8.28.17	013 EX	KOTZ17-TG/E-013	2.0 LPM	6	0930	1000
8.28.17	014 PER	KOTZ17-TG/E-014	2.0 LPM	6	1000	1110
8.28.17	015 ENV	KOTZ17-TG/E-015	2.0 LPM	3	0930	1110
8.31.17	016 EX	KOTZ17-GG-016	2.0 LPM	3	0910	0940
8.31.17	017 PER	KOTZ17-GG-017	2.0 LPM	3	0940	1245
8.31.17	018 ENV	KOTZ17-GG-018	2.0 LPM	6	0910	1245
8.31.17	019 FB	KOTZ17-FB-019	N/A	N/A	N/A	N/A

LA- 025427

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 9.11.17 P.O #

Customer Name: Price Engineering

Project Name: Ketchikan & Kotzebue Armories Project #:

Billing Address: 3800 CenterPoint Drive Suite 601 City: Anchorage State: AK Zip Code: 99503

Phone: Cell: 907-799-1622

Send report via (choose one): Email: cleigh@pricenvironmental.com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9.11.17 Time: 11:10 (am)/pm

Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS INC.
363 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Air Analysis

WL Project #: LA-025426

Report #: 634815
Report By: R. Briggs
Report Date: 09/13/2017

Client: **Brice Engineering**
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 6

Project Name/Location: Ketchikan & Kotzebue Armories

Collected By: Client
Collection Date: 08/27/2017
Analysis By: J. Hicklin
Analysis Date: 09/13/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WLSample	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
007	AL17-3100	Excursion	<33	ug/M3	33
008	AL17-3101	Personal	<2	ug/M3	2
009	AL17-3102	ENV	<2	ug/M3	2
010	AL17-3103	Excursion	<33	ug/M3	33
011	AL17-3104	Personal	<3	ug/M3	3
012	AL17-3105	ENV	<3	ug/M3	3

Worker TWA

Worker	Sample Date	SSN	PPE	TWA
None Noted	08/27/2017		~None Specified~	8

Joel Hicklin, Laboratory Technical Manager — 09/13/2017 Date

Grant Cardiff — 09/13/2017 Date

Preparation and analysis performed according to NIOSH Method 7082 (M), analysis by flame atomic absorption spectroscopy. The reporting limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab #102739). Test reports must not be reproduced without the approval of WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025426

Kotzebue Air Sample Collection Log

DATE	SAMPLE #	SAMPLE ID	FLOW	PUMP #	TIME ON	TIME OFF
8.26.17	001 PER	KOTZ17-TS-001	2.0 LPM	6	0915	1300
8.26.17	002 ENV	KOTZ17-TS-002	2.0 LPM	3	0845	1300
8.26.17	003 EX	KOTZ17-TS-003	2.0 LPM	6	0845	0915
8.26.17	004 EX	KOTZ17-TG/E-004	2.0 LPM	6	1430	1500
8.26.17	005 PER	KOTZ17-TG/E-005	2.0 LPM	6	1500	1930
8.26.17	006 ENV	KOTZ17-TG/E-006	2.0 LPM	3	1430	1930
8.27.17	007 EX	KOTZ17-GG-00-7	2.0 LPM	4	0810	0840
8.27.17	008 PER	KOTZ17-GG-008	2.0 LPM	4	0840	1700
8.27.17	009 ENV	KOTZ17-GG-009	2.0 LPM	5	0810	1700
8.27.17	010 EX	KOTZ17-SR-010	2.0 LPM	3	1700	1730
8.27.17	011 PER	KOTZ17-SR-011	2.0 LPM	3	1730	2245
8.27.17	012 ENV	KOTZ17-SR-012	2.0 LPM	6	1700	2245
8.28.17	013 EX	KOTZ17-TG/E-013	2.0 LPM	6	0930	1000
8.28.17	014 PER	KOTZ17-TG/E-014	2.0 LPM	6	1000	1110
8.28.17	015 ENV	KOTZ17-TG/E-015	2.0 LPM	3	0930	1110
8.31.17	016 EX	KOTZ17-GG-016	2.0 LPM	3	0910	0940
8.31.17	017 PER	KOTZ17-GG-017	2.0 LPM	3	0940	1245
8.31.17	018 ENV	KOTZ17-GG-018	2.0 LPM	6	0910	1245
8.31.17	019 FB	KOTZ17-FB-019	N/A	N/A	N/A	N/A

LA- 025426

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 9.11.17 P.O #

Customer Name: Brice Engineering

Project Name: Ketchikan & Kotzebue Armories Project #:

Billing Address: 3800 CenterPoint Drive Suite 600 City: Anchorage State: AK Zip Code: 99503

Phone: Cell: 907-799-1672

Send report via (choose one): Email: cleigh@BriceEnvironmental.com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9.11.17 Time: 11:10 (am)/pm

Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Air Analysis

WL Project #: LA-025424

Report #: 634816
Report By: R. Briggs
Report Date: 09/13/2017

Client: Brice Engineering
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 3

Project Name/Location: Ketchikan & Kotzebue Armories

Collected By: Client
Collection Date: 08/28/2017
Analysis By: J. Hicklin
Analysis Date: 09/13/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WLSample	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
013	AL17-3106	Excursion	<33	ug/M3	33
014	AL17-3107	Personal	<14	ug/M3	14
015	AL17-3108	ENV	<10	ug/M3	10

Worker TWA

Worker	Sample Date	SSN	PPE	TWA
None Noted	08/28/2017		~None Specified~	4

Joel Hicklin, Laboratory Technical Manager — 09/13/2017 Date

Grant Cundell — 09/13/2017 Date

Preparation and analysis performed according to NIOSH Method 7082 (M), analysis by flame atomic absorption spectroscopy. The reporting limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab #102739). Test reports must not be reproduced without the approval of WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025424

Kotzebue Air Sample Collection Log

DATE	SAMPLE #	SAMPLE ID	FLOW	PUMP #	TIME ON	TIME OFF
8.26.17	001 PER	KOTZ17-TS-001	2.0 LPM	6	0915	1300
8.26.17	002 ENV	KOTZ17-TS-002	2.0 LPM	3	0845	1300
8.26.17	003 EX	KOTZ17-TS-003	2.0 LPM	6	0845	0915
8.26.17	004 EX	KOTZ17-TG/E-004	2.0 LPM	6	1430	1500
8.26.17	005 PER	KOTZ17-TG/E-005	2.0 LPM	6	1500	1930
8.26.17	006 ENV	KOTZ17-TG/E-006	2.0 LPM	3	1430	1930
8.27.17	007 EX	KOTZ17-GG-00-7	2.0 LPM	4	0810	0840
8.27.17	008 PER	KOTZ17-GG-008	2.0 LPM	4	0840	1700
8.27.17	009 ENV	KOTZ17-GG-009	2.0 LPM	5	0810	1700
8.27.17	010 EX	KOTZ17-SR-010	2.0 LPM	3	1700	1730
8.27.17	011 PER	KOTZ17-SR-011	2.0 LPM	3	1730	2245
8.27.17	012 ENV	KOTZ17-SR-012	2.0 LPM	6	1700	2245
8.28.17	013 EX	KOTZ17-TG/E-013	2.0 LPM	6	0930	1000
8.28.17	014 PER	KOTZ17-TG/E-014	2.0 LPM	6	1000	1110
8.28.17	015 ENV	KOTZ17-TG/E-015	2.0 LPM	3	0930	1110
8.31.17	016 EX	KOTZ17-GG-016	2.0 LPM	3	0910	0940
8.31.17	017 PER	KOTZ17-GG-017	2.0 LPM	3	0940	1245
8.31.17	018 ENV	KOTZ17-GG-018	2.0 LPM	6	0910	1245
8.31.17	019 FB	KOTZ17-FB-019	N/A	N/A	N/A	N/A

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 9.11.17 P.O #

Customer Name: Brice Enbineering

Project Name: Ketchikan & Kotzebue Armories Project #:

Billing Address: 3800 CenterPoint Drive Suite 601 City: Anchorage State: AK Zip Code: 99503

Phone: Cell: 907-799-1672

Send report via (choose one): Email: Cleigh@BriceEnvironmental.Com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

****By signing for these samples you are responsible for payment. We will not bill someone else on your behalf.****

Samples Relinquished By (please print): Caleb Leigh Date: 9.11.17 Time: 11:10 (am)/pm

Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

WHITE ENVIRONMENTAL CONSULTANTS INC.
383 INDUSTRIAL WAY SUITE 300 ANCHORAGE, AK 99501 (907) 258-8661

Lead Air Analysis

WL Project #: LA-025425

Report #: 634817
Report By: R. Briggs
Report Date: 09/13/2017

Client: Brice Engineering
5015 Business Park Blvd, STE 3000
Anchorage, AK 99503

Billing Number: 26054

TAT: 72 Hour **Sample Count:** 4

Project Name/Location: Ketchikan & Kotzebue Armories

Collected By: Client
Collection Date: 08/31/2017
Analysis By: J. Hicklin
Analysis Date: 09/13/2017
Received By: R. Briggs
Received Date: 09/11/2017

Client ID	WLSample	Sample Type	Result	Result Units	Reporting Limit (ug/m3)
016	AL17-3109	Excursion	<33	ug/M3	33
017	AL17-3110	Personal	<5	ug/M3	5
018	AL17-3111	ENV	<5	ug/M3	5
019	AL17-3112	Field Blank	<2	ug/filter	N/A

Worker TWA

Worker	Sample Date	SSN	PPE	TWA
None Noted	08/31/2017		~None Specified~	4

Joel Hicklin, Laboratory Technical Manager — 09/13/2017 Date

09/13/2017 Date

Preparation and analysis performed according to NIOSH Method 7082 (M), analysis by flame atomic absorption spectroscopy. The reporting limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Unless otherwise stated, all quality control samples were acceptable. Modifications made to the previously referenced test methods are documented in WEC, Inc. Standard Operating Procedures Manual. Field and laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC, Inc. Anchorage is a current proficient participant in the AIHA ELPAT program and is accredited by AIHA LAP, Inc. for environmental lead (Lab #102739). Test reports must not be reproduced without the approval of WEC, Inc. and are subject to WEC, Inc. General Terms and Conditions (available upon request).

LA- 025425

Kotzebue Air Sample Collection Log

DATE	SAMPLE #	SAMPLE ID	FLOW	PUMP #	TIME ON	TIME OFF
8.26.17	001 PER	KOTZ17-TS-001	2.0 LPM	6	0915	1300
8.26.17	002 ENV	KOTZ17-TS-002	2.0 LPM	3	0845	1300
8.26.17	003 EX	KOTZ17-TS-003	2.0 LPM	6	0845	0915
8.26.17	004 EX	KOTZ17-TG/E-004	2.0 LPM	6	1430	1500
8.26.17	005 PER	KOTZ17-TG/E-005	2.0 LPM	6	1500	1930
8.26.17	006 ENV	KOTZ17-TG/E-006	2.0 LPM	3	1430	1930
8.27.17	007 EX	KOTZ17-GG-00-7	2.0 LPM	4	0810	0840
8.27.17	008 PER	KOTZ17-GG-008	2.0 LPM	4	0840	1700
8.27.17	009 ENV	KOTZ17-GG-009	2.0 LPM	5	0810	1700
8.27.17	010 EX	KOTZ17-SR-010	2.0 LPM	3	1700	1730
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8.27.17	012 ENV	KOTZ17-SR-012	2.0 LPM	6	1700	2245
8.28.17	013 EX	KOTZ17-TG/E-013	2.0 LPM	6	0930	1000
8.28.17	014 PER	KOTZ17-TG/E-014	2.0 LPM	6	1000	1110
8.28.17	015 ENV	KOTZ17-TG/E-015	2.0 LPM	3	0930	1110
8.31.17	016 EX	KOTZ17-GG-016	2.0 LPM	3	0910	0940
8.31.17	017 PER	KOTZ17-GG-017	2.0 LPM	3	0940	1245
8.31.17	018 ENV	KOTZ17-GG-018	2.0 LPM	6	0910	1245
8.31.17	019 FB	KOTZ17-FB-019	N/A	N/A	N/A	N/A

LA- 025425

WEC WHITE ENVIRONMENTAL CONSULTANTS, INC.

383 Industrial Way, Suite 300 Anchorage, AK 99501 907.258.8661 frontdesk@wecenv.com

CHAIN OF CUSTODY

Date: 9.11.17 P.O #

Customer Name: Brice Enbineering

Project Name: Ketchikan & Kotzebue Armories Project #:

Billing Address: 3800 CenterPoint Drive Suite 601 City: Anchorage State: AK Zip Code: 99503

Phone: Cell: 907-799-1672

Send report via (choose one): Email: Cleigh@BriceEnvironmental.com **or Fax:**

***Only for SAME DAY T.A.T* Verbal (circle one) Y / N If yes, please provide name/contact #:**

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Samples Received By (please print): RBriggs Date: 9/11/17 Time: 11:25 (am)/pm

Samples Analysis Type: **PCM PLM TEM (LEAD) TCLP MOLD Other (specify)**

PAYMENT ATTACHED **Y N** Composite: **Y N**

Turn-around Time: **SAME DAY NEXT DAY (2-DAY) 3-DAY 5-DAY**

Method of Payment: **CASH CHECK CREDIT CARD (ACCOUNT) WALK-IN WALK-IN-RUSH**

Sample #	Collection Date	T.A.T.	Analysis Type	Location/Worker: Task	Volume (L)	Sample Condition

It is the responsibility of the Customer to ensure that samples are correctly taken and packaged. WEC reserves the right to refuse samples for analysis which are obviously unsuitable due to damage, incorrect or insufficient labeling, or incorrect sample loading. WEC will contact the Customer as soon as such a problem is identified and will discuss with the Customer the course of action to be taken.

APPENDIX E

SITE MAPS

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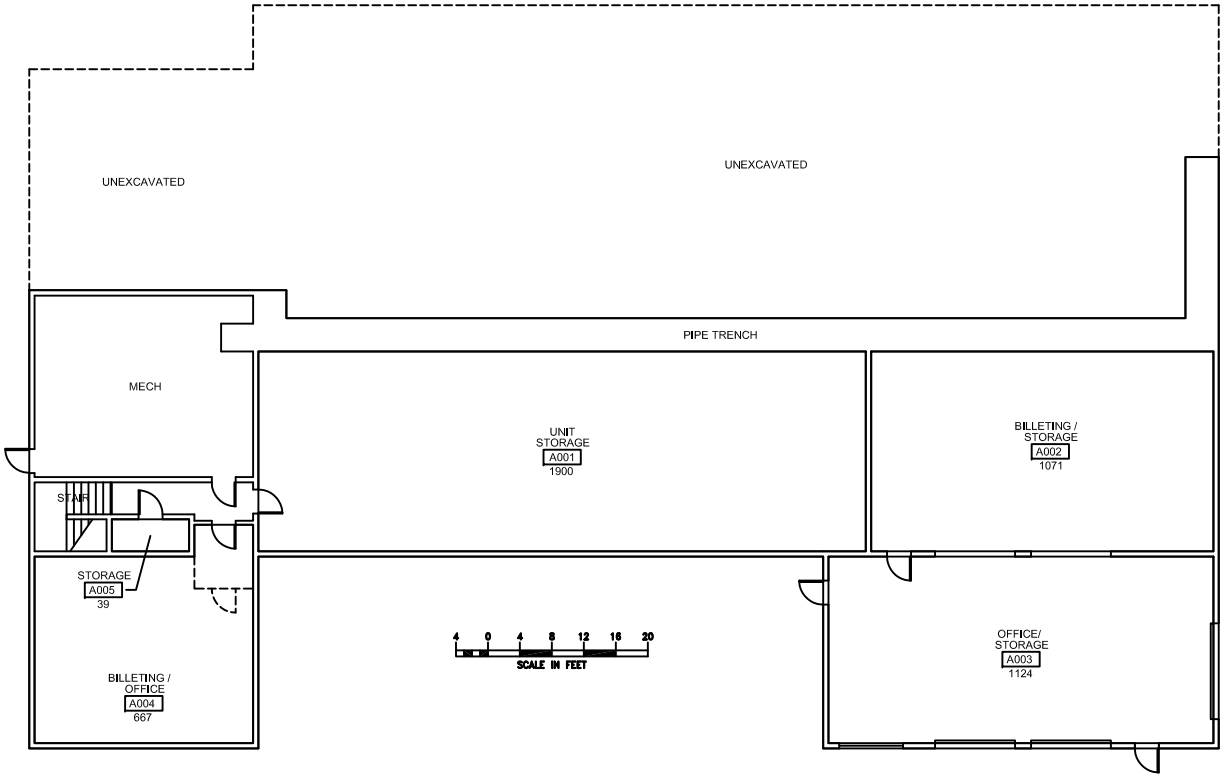
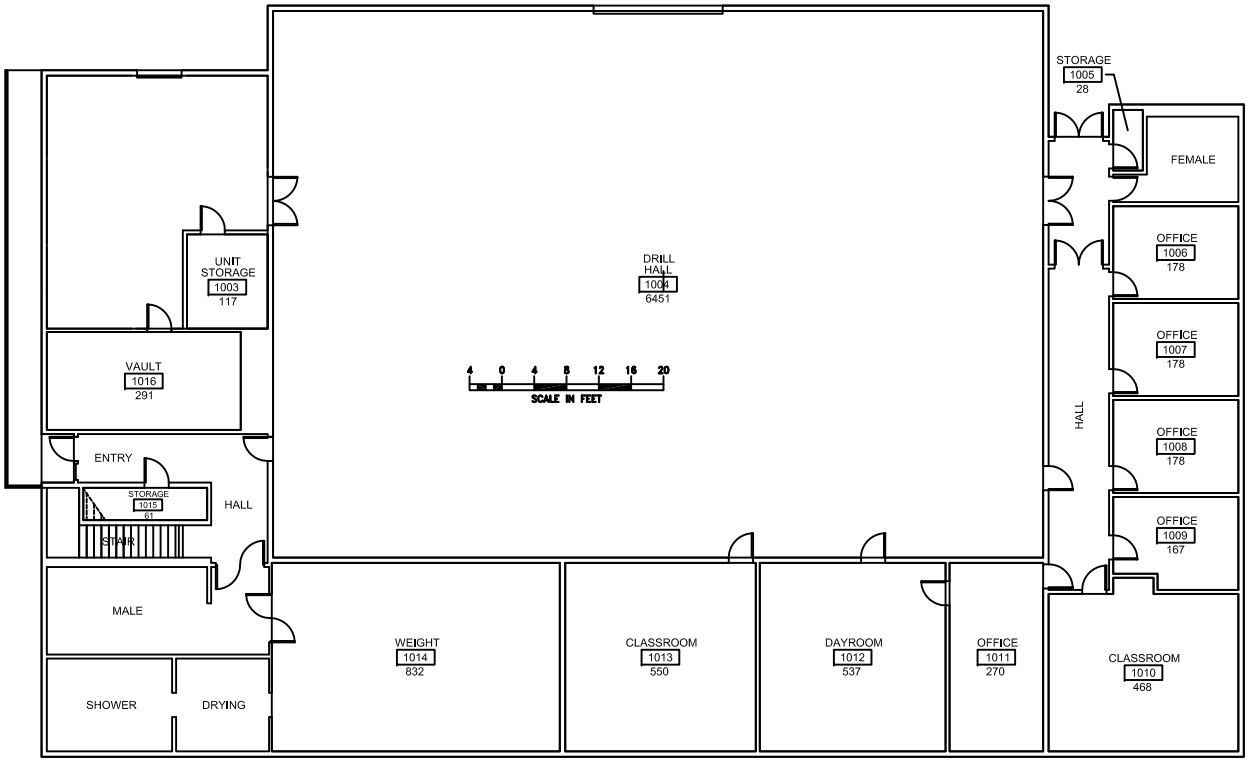
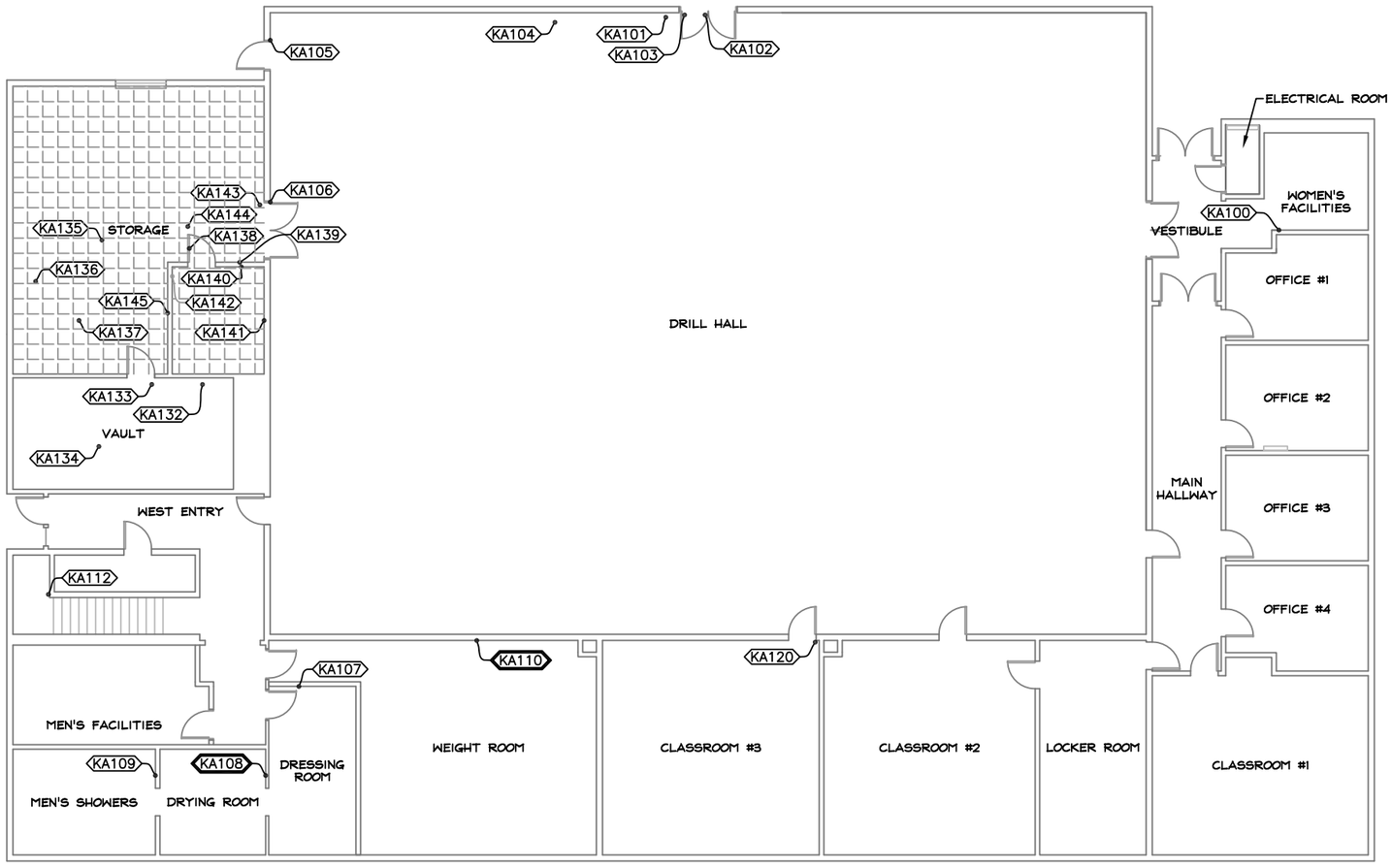


STATE OF ALASKA		KETCHIKAN armory	A1
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS		LOWER LEVEL PLAN	of 1
DMVA/FMD	FACILITIES MANAGEMENT OFFICE	KETCHIKAN ALASKA	1/20/06



STATE OF ALASKA		KETCHIKAN ARMORY – UPPER FLOOR PLAN –	A2
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS			of 2
DMVA/FMD	FACILITIES MANAGEMENT OFFICE	KETCHIKAN ALASKA	1/20/06



LEGEND

- 0123 LEAD BASED PAINT SAMPLE (<5,000 PPM or <1mg/cm²)(HUD)
- 0123 LEAD BASED PAINT SAMPLE (>5,000 PPM)(HUD)

} SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER

LEAD DUST AREA

NOTES

1. RESULTS IN TABLE 2 ARE REPRESENTATIVE OF SIMILAR COLORS THROUGHOUT BUILDING, INCLUDING OTHER LEVELS.
2. THE RED PAINT ON METAL TRUSSES IS ASSUMED TO EXCEED 5,000 PPM LEAD.
3. METAL DOOR FRAMES AND THE UPPER STORAGE ROOM FLOOR HAVE MULTIPLE LAYERS OF PAINT.

Table 2: Lead Analysis Results - Alaska National Guard Armory

Niton #	Room	Feature	Color	ug/g (PPM)
KA-100	Women's Facilities	Paint	White	940
KA-101	N. Drill Hall Double Doors Threshold	Paint	Black	<46
KA-102	N. Drill Hall Double Doors Door Jam	Paint	Dark Brown	<43
KA-103	N. Drill Hall Double Doors Door Jam	Paint	Brownish Red	<35
KA-104	North Drill Hall Wall	Hardboard Panel	Beige	<38
KA-105	Northwest Drill Hall Door Jamb	Paint	Battleship Gray	200
KA-106	Storage Room Threshold	Paint	Dark Green	530
KA-107	Dressing Room Doorstop	Paint	Battleship Gray	<45
KA-108	**Behind Heater in Drying Room**	**Paint**	**Yellow Green**	**6200**
KA-109	Mens Showers	Ceramic Tile	Yellow	<44
KA-110	**Orange Metal Girder Weight Rm Ceil.**	**Paint**	**Orange**	**13000**
KA-112	West Stairwell Landing	Paint	white	130

Table 2 continued: Lead XRF Analysis Results - Alaska National Guard Armory

Niton #	Room	Feature	Color	mg/cm²
132	Vault	Paint	White	0.00
133	Vault	Paint	Gray	0.00
134	Vault	Paint	Gray	0.00
135	Storage	Paint	Dark Green	0.07
136	Storage	Paint	Light Freen	0.30
137	Storage	Paint	Red	0.40
138	Storage	Paint	Black	0.01
139	Storage	Paint	Tan	0.00
140	Storage	Paint	Battleship Gray	0.00
141	Storage	Paint	Tan	0.00
142	Storage	Paint	Back	0.00
143	Storage	Paint	Brown	0.01
144	Storage	Paint	Yellow	0.01
145	Storage	Paint	White	0.00

RIM ARCHITECTS
ALASKA | HAWAII GUAM CALIFORNIA
645 'G' STREET, SUITE 400
ANCHORAGE, AK 99501
Phone: 907.258.7777
Fax: 907.279.8195
www.rimarchitects.com

NORTECH
SUSTAINABLE ENVIRONMENT, ENERGY, HEALTH & SAFETY
2400 College Road, Fairbanks, AK. 99709
907-452-5688
3105 Lakeshore Dr. Ste.A106, Anchorage, AK. 99517
907-222-2445
5429 Shaune Dr. Ste.B, Juneau, AK. 99801
907-586-6813

STATE OF ALASKA 49TH
Peter Beardsley V
CE 10934
REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION DOCUMENTS

ALASKA NATIONAL GUARD ARMORY
ROOF REPLACEMENT
645 JACKSON ST. KETCHIKAN, ALASKA
STATE OF ALASKA
FIRST FLOOR PLAN
LEAD SAMPLING AND RESULTS

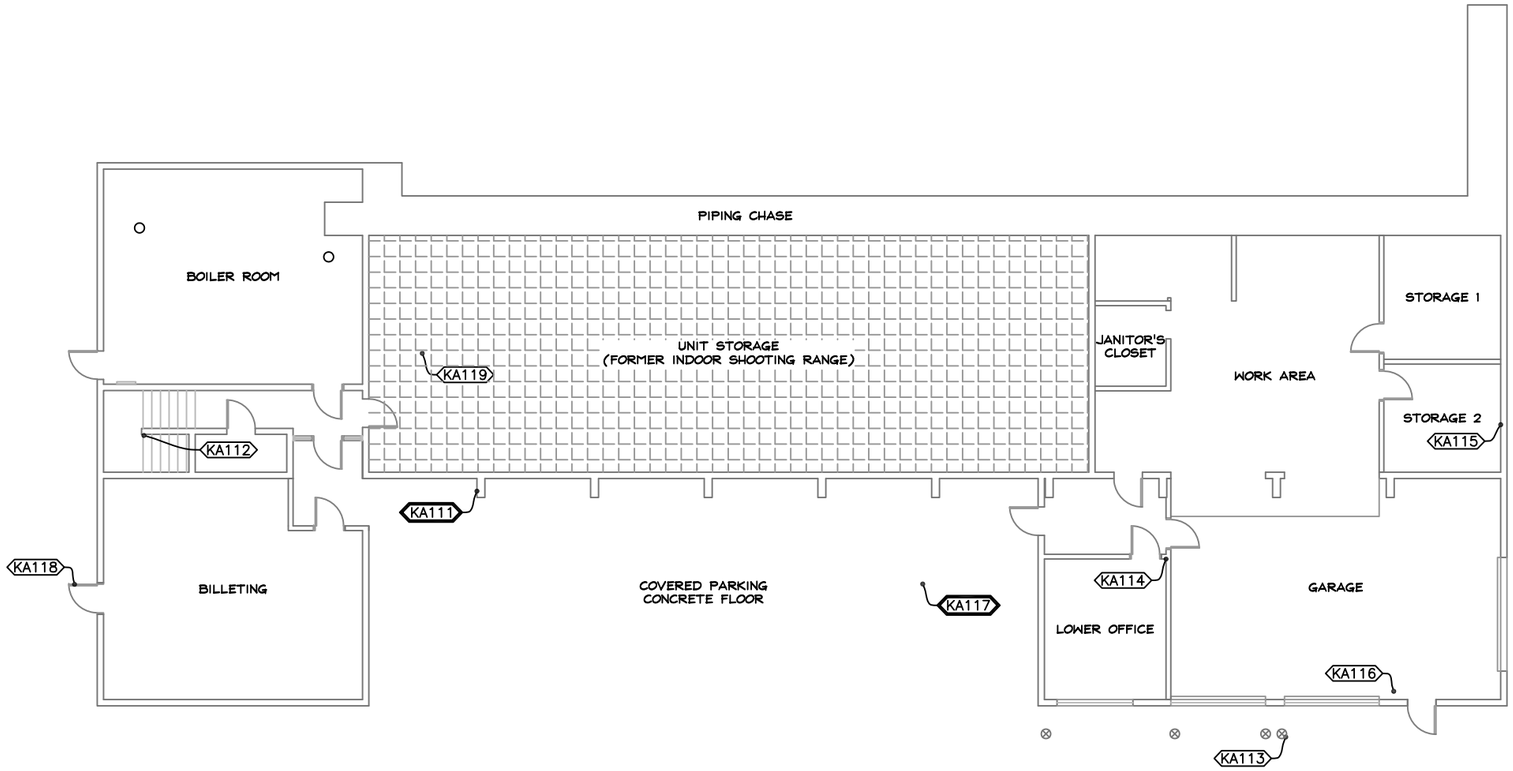
PROJECT TITLE: | OWNER: | SHEET TITLE:

MARK	DATE	DESCRIPTION

DATE : 2015.12.9
PROJECT NO : 15-2504
DRAWN BY : CMR
CHECKED BY: TAS
A DOT & PF
PROJECT No.: 81148

SHEET DESCRIPTION: FIRST FLOOR

DWG NO: H102



LEGEND

- 0123 LEAD BASED PAINT SAMPLE (<5,000 PPM)(HUD)
- 0123 LEAD BASED PAINT SAMPLE (>5,000 PPM)(HUD)

} SEE LEAD BASED PAINT TABULATION RESULTS FOR CONCENTRATION FOR LEAD SAMPLE NUMBER

- ⊗ BOLLARD
- LEAD DUST AREA

NOTES

1. RESULTS IN TABLE 2 ARE REPRESENTATIVE OF SIMILAR COLORS THROUGHOUT BUILDING, INCLUDING OTHER LEVELS.
2. THE RED PAINT ON METAL TRUSSES IS ASSUMED TO EXCEED 5,000 PPM LEAD.
3. METAL DOOR FRAMES AND THE UPPER STORAGE ROOM FLOOR HAVE MULTIPLE LAYERS OF PAINT.

Table 2 continued: Lead Analysis Results - Alaska National Guard Armory

NIton #	Room	Feature	Color	ug/g (PPM)
KA-111	**Lower Concrete Wall**	**Paint**	**Drk Red Brown**	**6100**
KA-112	West Stairwell Landing	Paint	white	130
KA-113	Garage Bollard	Paint	Bright Yellow	<39
KA-114	Lower Office	Paint	Beige	<49
KA-115	Lower Storage 2	Paint	White	54
KA-116	Garage Wall	Paint	Fire Red	<44
KA-117	**Covered Parking T&G Ceiling**	**Paint**	**Yellow**	**11000**
KA-118	Boiler Room Door-Outside	Paint	Dark Brown	220
KA-119	Unit Storage Floor	Paint	White	1100

RIM ARCHITECTS
ALASKA | HAWAII GUAM CALIFORNIA
645 'G' STREET, SUITE 400
ANCHORAGE, AK 99501
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3105 Lakeshore Dr. Ste.A106, Anchorage, AK. 99517 907-222-2445
5429 Shaune Dr. Ste.B, Juneau, AK. 99801 907-586-5813

STATE OF ALASKA 49TH
Peter Beardsley V
CE 10934
REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION DOCUMENTS

ALASKA NATIONAL GUARD ARMORY
ROOF REPLACEMENT
645 JACKSON ST. KETCHIKAN, ALASKA

PROJECT TITLE:
STATE OF ALASKA
OWNER:
BASEMENT FLOOR PLAN
LEAD SAMPLING AND RESULTS
SHEET TITLE:

MARK	DATE	DESCRIPTION

DATE : 2015.12.9
PROJECT NO : 15-2504
DRAWN BY : CMR
CHECKED BY: TAS
A DOT & PF
PROJECT No.: 81148

SHEET DESCRIPTION:
BASEMENT FLOOR

DWG NO:
H104
SHEET 5 OF 7