Technical Memorandum

To:	Kara Master, Oregon DEQ	Date:	October 23, 2024
From:	Chris Clough, Maul Foster & Alongi Julie Pace, Maul Foster & Alongi	Project No.:	M0785.31.001
Re:	Limited Pre-Renovation Hazardous Building Materials Survey – Burns Armory		

Maul Foster & Alongi, Inc. (MFA) prepared this Sampling Memorandum to present the purpose, scope of work, field findings, and analytical results from the limited hazardous building materials (HBM) assessment performed at the Burns Armory at 618 S Fairview Avenue in Burns, Oregon (the Site; Figures 1 and 2). The HBM assessment included asbestos-containing building materials (ACM) survey and inspection for lead-based paints (LBP).

Purpose

An approximately 13,000-square-foot armory building and 3,500-square-foot shed structure are present at the Site. The main building was reportedly constructed in 1955[1] and the shed in the 1950s[2]. The main building is two stories and is constructed with brick, concrete, and reinforced plaster. The building includes office and storage rooms, common areas, a classroom, a dining area, a kitchen, mechanical and custodial rooms, restrooms, and a central gymnasium. The shed is a single-story metal and concrete structure with an unfinished interior.

The Site was formerly owned and operated by the Oregon Military Department. The Burns Piute Tribe leased the Site prior to purchasing it in 2024. The Site is currently used by the Burns Paiute Tribe to house its information technology (IT) network and as a community wellness center. According to prior assessment documents, the main building is slated for renovation and the shed is slated for full demolition.

To perform this assessment, Harney County used awarded funding from a U.S. Environmental Protection Agency (EPA) Brownfield Coalition Assessment Grant (Cooperative Agreement #BF-01J86601). Oregon Department of Environmental Quality (DEQ), through an intergovernmental agreement (IGA) with Harney County, contracted assessment activities to an existing on-call environmental contractor, MFA.

Scope of Work

The project scope of work included the following tasks:

[1] PBS. 2024a. Limited Pre-Renovation Hazardous Materials Report, Burns Armory Building 618 S. Fairview Avenue, Burns, Oregon 97720. PBS Engineering and Environmental Inc., January 25.
[2] PBS. 2024b. Pre-Demolition Hazardous Materials Survey Report, Burns Armory Shed 654 W. Filmore Street, Burns, Oregon 97720. PBS Engineering and Environmental Inc., January 25.

- Conduct a limited inspection of the armory building including the roof exterior for suspected ACM. The prior survey was unable to access some of the roofing levels and presumed asbestos was present which was a data gap.
- Collect bulk samples of suspected ACM in accordance with applicable regulations and industry-standard guidelines for conducting hazardous building materials surveys.
- Field measurement of painted surfaces, likely to be impacted by planned renovations, for the presence of lead using an X-ray fluorescence (XRF) device.
- Measure and assess impacts of bird droppings on the shed structure interior.
- Submit suspected ACM bulk samples to a qualified laboratory for analysis.
- Prepare a memorandum documenting the survey findings (this document).

Field Activities and Findings

Preparatory Activities

MFA completed the following preparatory activities prior to conducting field activities on the Site:

Laboratory Identification and Selection. Based on communications with DEQ's contract laboratory, it was determined that the selection of an outside laboratory to perform the hazardous building materials analysis would minimize analysis time and reduce costs for sample analysis. Based on recent experience on completed projects, demonstrated ability to meet expedited turnaround times, and pricing for laboratory analyses, MFA selected NVL Laboratories (NVL) of Seattle, Washington for hazardous building materials analyses. NLV is a Minority Business Enterprise (MBE) that holds certifications to analyze asbestos in bulk materials.

Site Health and Safety Plan. MFA prepared a site-specific health and safety plan (HASP) for the performance of these sampling activities. The HASP was prepared in general accordance with the Occupational Safety and Health Act and Oregon Administrative Rules. A copy of the HASP was maintained on site for use by MFA staff during the field activities and was submitted to DEQ as Appendix A of the Sampling and Analysis Plan[3].

Site Access and Work Notification. MFA coordinated Site access with Burns Paiute Tribe representatives and notified DEQ of the proposed work schedule. The performance of the field efforts for this project was delayed due to nearby wildfire conditions that impacted air quality and the availability of owner representatives to provide access to the Site.

Roofing Repair Contractor Coordination. In addition to Burns Paiute Tribe and DEQ notifications, MFA coordinated with a local roofing contractor to provide additional Site access equipment and to perform repair patching after collection of survey samples.

Equipment Rental. MFA rented an XRF device, certified and calibrated to measure lead, including buried paint layers. In accordance with operating instructions and standard industry guidance, the equipment was calibrated before each survey, every four hours during operation of the equipment, and at the end of each survey to ensure the accuracy of the field measurements. The calibration measurements were reviewed and were within operation standards to consider the collected data valid for the survey.

[3] MFA. 2024. Sampling and Analysis Plan. Burns Armory, DEQ Task Order 067-23-16. ECSI No. 6257. Maul Foster and Alongi, Inc., July 23.

Asbestos Sampling

On August 17, 2024, a site inspection and asbestos survey was performed by Julie Pace, a certified Asbestos Hazard Emergency Response Act (AHERA) inspector (certificate in Attachment A). The survey included a complete visual survey of the accessible roof areas of the main building and shed structures to identify suspected ACM prior to renovation activities. Suspect materials were cataloged and tracked. Bulk building material samples were collected from each of the suspect materials, as appropriate, using industry-standard sampling techniques and sampling procedures were consistent with the AHERA protocol outlined in 40 Code of Federal Regulations (CFR) 763, Oregon Administrative Rules Chapter 340, Division 248, and industry standards.

Julie Pace collected 13 samples in the main building and three samples in the shed, comprising a total of 29 individual layers of suspect ACM. These samples included roofing sealants, silver paint, tar, and cores completed through all roofing layers of the upper-most roof, wallboard, skim coats, joint compounds, adhesives, caulking, and cement board. Samples were collected using decontaminated equipment and placed into individually labeled plastic bags Results, locations, and descriptions are included in Table 1. Photographs were taken of each sample and sampling location (Attachment B). Sample details were recorded in field notes, and a field figure was generated to document location information for each sample (Figure 2). The sampling procedures were followed to minimize the release of asbestos fibers. Roofing samples that penetrated the building envelope were repaired by a local roofing contractor. The samples were submitted to NVL for analysis under chain-of-custody protocols.

Lead Paint Inspection

Julie Pace, a lead paint inspector and risk assessor, inspected the site for painted surfaces that are likely to be impacted by planned renovations and were not sufficiently sampled during the prior PBS Engineering (PBS) inspections.[4] Julie Pace's certificate is presented in Attachment A.

Representative painted surfaces were analyzed using an XRF. The XRF device presents the concentration of detected lead within each painted surface. MFA confirmed that the Site is not operating as a child-occupied facility, no housing is present, and there are no plans to convert this Site for these uses in the future. Based on these determinations, a limited pre-renovation paint survey was conducted in accordance with industry standards.

EPA (40 CFR 745) and the Oregon Health Authority define LBP as paint containing lead concentrations higher than 1 mg/cm^2 or 0.5 percent (by weight). Lead inspection results with a concentration at or above 1 mg/cm^2 are considered LBP, and detectable lead concentrations below 1 mg/cm^2 are considered lead-containing paint (LCP).

In the main building, LBP was identified in 36 of the 65 Site locations where XRF measurements were taken. LCP was identified in 33 of the 65 Site locations where XRF measurements were taken.

In the shed, LBP was identified in 1 of the 13 Site locations where XRF measurements were taken. LCP was identified in 12 of the 13 Site locations where XRF measurements were taken.

Sample details were recorded in field notes. Paint results, locations, and descriptions are included in Table 2. The full data set from the XRF is presented in Attachment C.

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[4] PBS. 2024a. Limited Pre-Renovation Hazardous Materials Report, Burns Armory Building 618 S. Fairview Avenue, Burns, Oregon 97720. PBS Engineering and Environmental Inc., January 25.
PBS. 2024b. Pre-Demolition Hazardous Materials Survey Report, Burns Armory Shed 654 W. Filmore Street, Burns, Oregon 97720. PBS Engineering and Environmental Inc., January 25.

Bird Dropping Measurement and Assessment

As part of the planned demolition of the shed structure, surfaces coated with bird droppings, that may present a human health hazard, will need to be addressed. During the Site inspection, Julie Pace made observations and collected measurements of the areas impacted by bird droppings. The bird droppings are on various surfaces, such as the concrete floor, gym equipment, a riding lawnmower, lockers, wrapped insulation, metal chairs, and furniture.

The thickness of the bird droppings ranges from 1 to 5 inches, covering most of the floor, estimated at 3,500 square feet. The back storage room was relatively unaffected. Photographs are included in Attachment B.

Analysis and Results

Table 1 summarizes the asbestos laboratory results and field data about building material types, color, condition, and sample locations. Table 2 presents the data from the XRF for lead within painted surfaces. The locations of the asbestos samples are shown in the attached Figure 2. The laboratory analytical report is presented in Attachment D. The data are considered acceptable for their intended use.

The 16 ACM samples, from the main building and shed, were analyzed by polarized light microscopy, consistent with EPA Method 600/R-93/116.

In OAR 340-248-0010, the Oregon Department of Environmental Quality defines ACM as materials that contain more than 1 percent asbestos by weight.

Laboratory Asbestos Results

Asbestos was detected in 8 of the 16 samples: AB-06, AB-07, AB-11, AB-12, AB-13, AS-01, AS-02, and AS-03. Descriptions of these materials are presented in Table 1 and summarized below:

Armory Main Building

- Layer 2 of sample AB-06 contained 14 percent chrysotile asbestos. The laboratory described this layer as black asphaltic material. Based on field observations it is believed that this layer is a sealant on the upper rooftop vents.
- Layer 1 of sample AB-07 contained 16 percent chrysotile asbestos. The laboratory described this layer as black asphaltic material. Based on field observations it is believed that this layer is a tar.
- Sample AB-11 contained 14 percent chrysotile asbestos. The laboratory described this layer as gray, loose, crumbly material with layered paint. Based on field observations it is believed that this material is cement board soffit (transite).
- Layers 1 and 2 of sample AB-12 contained 3 and 4 percent chrysotile asbestos, respectively. The laboratory described these layers as off-white compacted powdery material with paint, and off-white compacted powdery material with paper. This sample is the layers of wallboard, skim coat, and joint compound.
- Layer 1 of sample AB-13 contained 5 percent chrysotile asbestos. The laboratory described these layers as off-white compacted powdery material with paint. This sample is the layers of wallboard, skim coat, and joint compound.

Armory Shed

- Sample AS-01 contained 11 percent chrysotile asbestos. The laboratory described this layer as black asphaltic material with debris. Based on field observations it is believed that this material is a mastic.
- Sample AS-02 contained 14 percent chrysotile asbestos. The laboratory described this layer as black asphaltic material with debris. Based on field observations it is believed that this material is a mastic.
- Sample AS-03 contained 32 percent chrysotile asbestos. The laboratory described this layer as black asphaltic material with debris. Based on field observations it is believed that this material is a fibrous sealant and is located on the rooftop flashing. It is also assumed that this material is homogeneous with the mastic along the exterior shed panels that were previously identified in the 2024 PBS report (Attachment F).

XRF Results

Armory Main Building

Lead was detected in 68 of the 79 samples in this building. Thirty-five (35) of these were greater than 1.0 mg/cm^2, which classifies it as LBP. Thirty-three (33) samples are lead-containing because lead was detected, but the concentration was below the regulatory threshold of 1.0 mg/cm^2.

Armory Shed

Lead was detected in 13 of the 13 samples in this building. One (1) of these was greater than 1.0 mg/cm^2, which classifies it as LBP. Twelve (12) samples are lead-containing because lead was detected, but the concentration was below the regulatory threshold of 1.0 mg/cm^2.

Recommended Response Actions

This report should be made available to contractors during bidding on abatement, construction, or renovation work that will be conducted on the structures listed above. A summary of regulated ACM and LBP surveyed by MFA and PBS is included in Table 3 and presented on Figures 3 through 5.

Based on the presence of ACM and LBP present at the Site, the identified hazardous building materials should be abated by a licensed contractor or safely managed in place consistent with a written operations and maintenance plan to prevent human exposure or release to the environment. Please note that this survey document does not meet the requirements of an abatement specification.

LBP and LCP should be handled appropriately during abatement, renovation, and demolition consistent with the Oregon Occupational Safety and Health Administration lead requirements in OAR 1926.62. To ensure that proper best management practices are followed during demolition, MFA recommends that the contractor has lead certification and/or training. Licensed abatement contractors are not required to remove LCP; however, they should have the training, including monitoring experience, to ensure that workers are not exposed to lead during construction projects and to minimize potential releases to the environment.

Asbestos bulk samples with trace detections of asbestos fibers (e.g., < 1%) are not considered ACM, and therefore, are not regulated by EPA and DEQ, However, these materials may still contain asbestos. Contractors should be aware that OR-OSHA has requirements to protect workers that disturb these materials during construction activities.

Contractors should also be informed that other hazardous materials or conditions may be discovered during the renovation and/or demolition activities. Contractors should presume that any materials not described in this report and previous reports are potentially hazardous and should be inspected and sampled before they are disturbed.

As required by the State of Oregon Asbestos Rules, contact information for the Inspector and Property Owner are provided below.

- Julie Pace – AHERA Building Inspector – 971-544-7847
- Burns Paiute Tribe – Property Owner – 541-573-2088

Attachments

Limitations

Figures

Tables

A—Inspector Certificates

B—Photograph Log

C—XRF Data

D—Analytical Laboratory Reports

Limitations

The services undertaken in completing this technical memorandum were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This technical memorandum is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this technical memorandum apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this technical memorandum.

Figures

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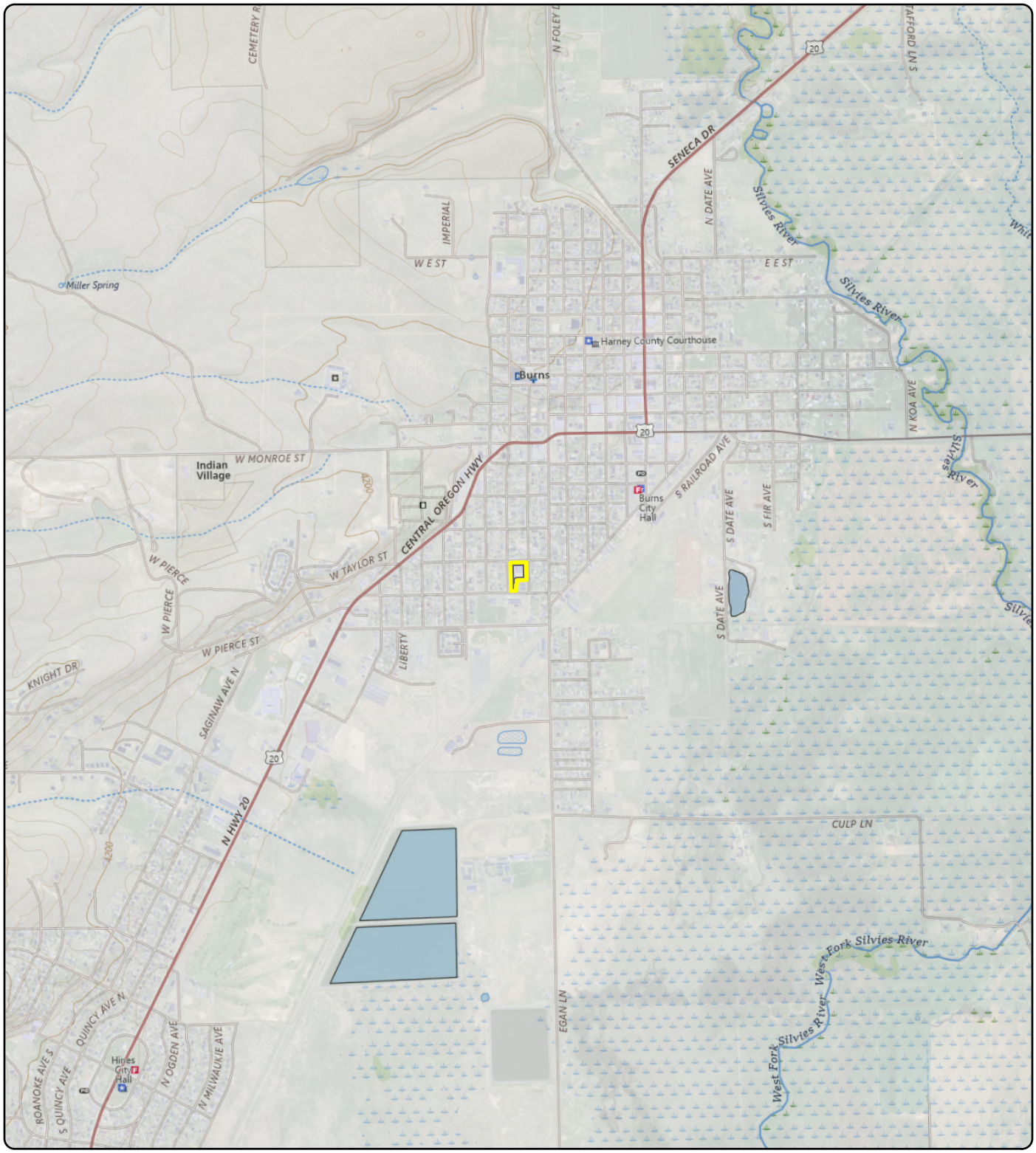

Notes
U.S. Geological Survey 7.5-minute topographic quadrangle (2020): Burns.
Township 23 south, range 30 east, section 18.

Data Source
Property boundary obtained from Harney County.

Legend

Site Boundary

Figure 1
Site Location

Limited Pre-Renovation Hazardous Building Materials Survey
Burns Armory
618 S Fairview Avenue
Burns, Oregon

0 2,000
Feet

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Path: X:\O_MFA_Projects\M0785.31.001\Pro\M0785_31_001_006.aprx\Fig 1-1 Site Location
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Reviewed By: cclough
Produced By: sturner
Project: M0785.31.001

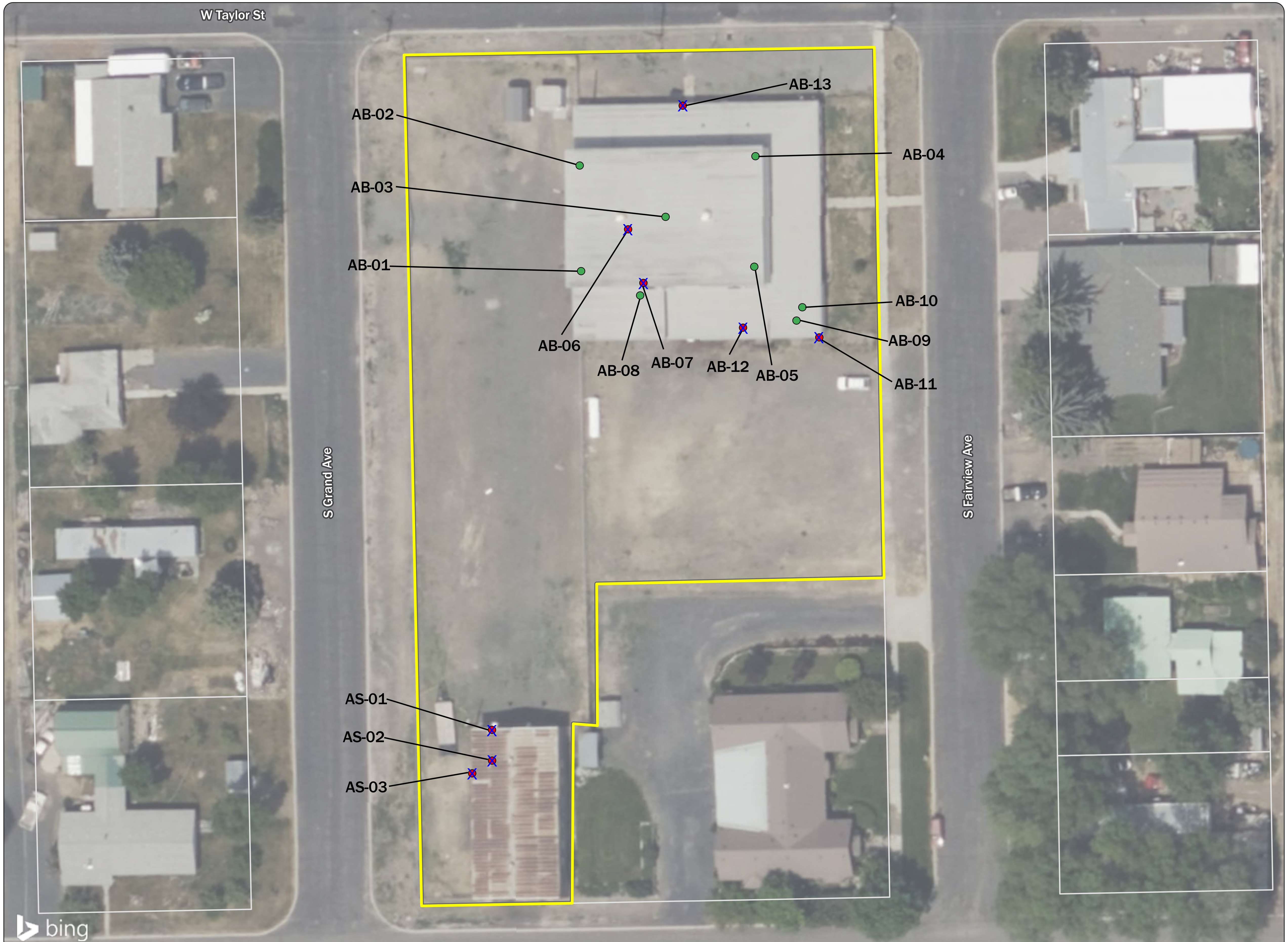

Figure 2
Sample Locations

Limited Pre-Renovation Hazardous Building Materials Survey
Burns Armory
618 S Fairview Avenue
Burns, Oregon

Legend

- Site Boundary
- Tax Lot
- Positive Asbestos Sample Location
- Negative Asbestos Sample Location

0 40
Feet

Data Sources
Aerial photograph obtained from Bing; tax lot data obtained from Harney County.

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Print Date: 7/8/2024
Reviewed By: cclough
Produced By: jelstrott
Project: M0785.31.001.003

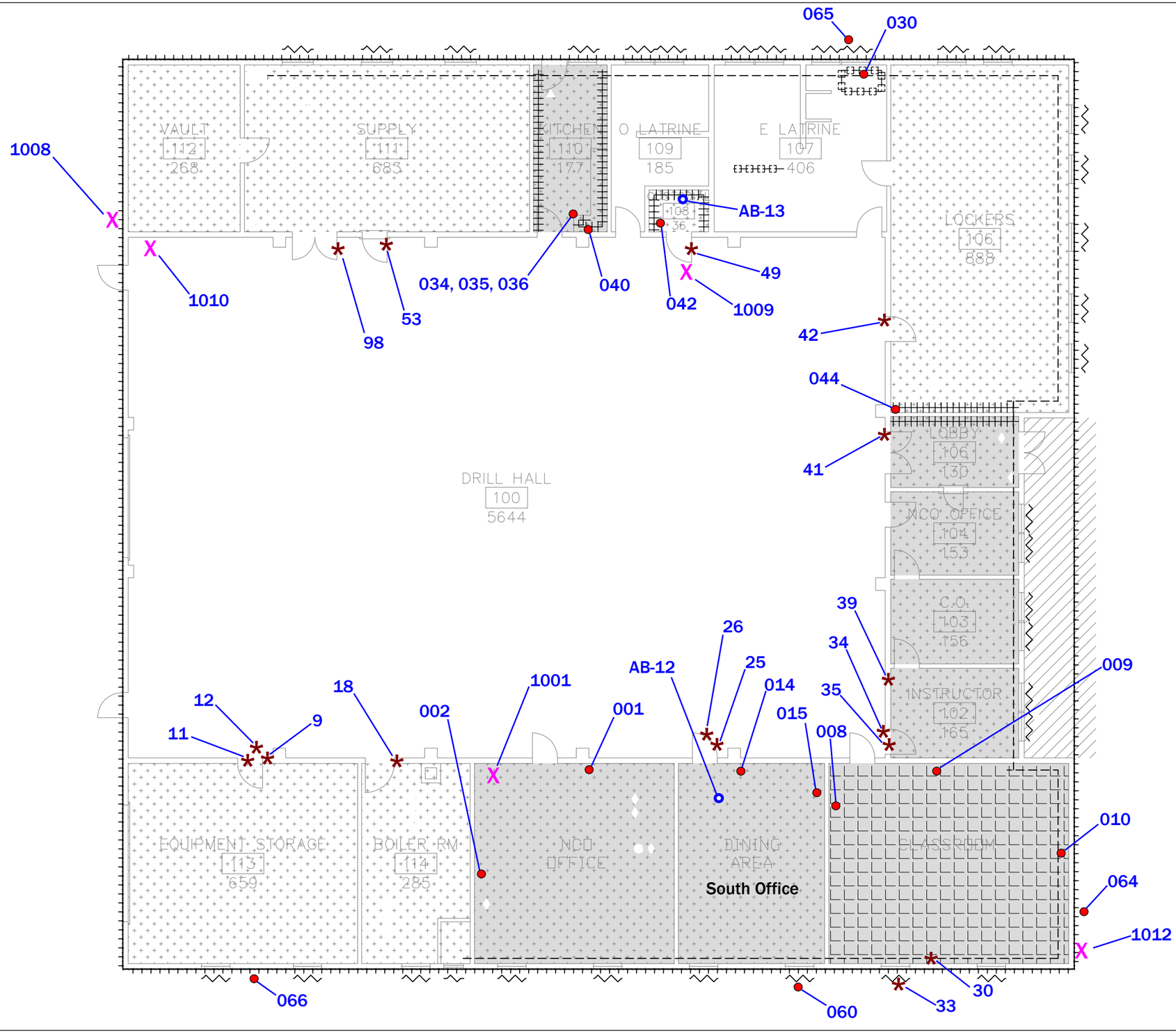

Figure 3
Main Building - First Floor
Summary of
ACM and LBP Detections

Limited Pre-Renovation Hazardous
Building Materials Survey
Burns Armory
618 S Fairview Avenue
Burns, Oregon

Legend

- Positive Asbestos Sample (MFA)
- Positive Asbestos Sample (PBS)
- Positive Lead-Based Paint by XRF (MFA)
- Positive Lead-Based Paint Sample (PBS)
- ASBESTOS-CONTAINING OFF-WHITE BEIGE GYPSUM WALLBOARD CEILINGS
- NON-ASBESTOS FLOOR TILE WITH PRESUMED ASBESTOS-CONTAINING REMNANT BLACK MASTIC
- ASBESTOS-CONTAINING CEMENT ASBESTOS BOARD (CAB) SOFFITS - PRESUMED THROUGHOUT UPPER LEVEL EXTERIOR
- ASBESTOS-CONTAINING WINDOW GLAZING
- ASBESTOS-CONTAINING GYPSUM/ JOINT COMPOUND PRESUMED TO BE IN OTHER LOCATIONS NOT SHOWN
- ASBESTOS-CONTAINING TROWELED ON TEXTURED MATERIAL
- ASBESTOS CONTAINING THERMAL SYSTEM INSULATION IN PIPE CHASE / TUNNELS
- ASBESTOS CONTAINING DUCT SEALANT

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Path: X:\0_MFA_Projects\M0785\31.001\Pro\M0785_31_001_003.aprx\Fig 2 Property Overview
Project: M0785.31.001.003 Produced By: jelstott Reviewed By: cclough Print Date: 7/8/2024

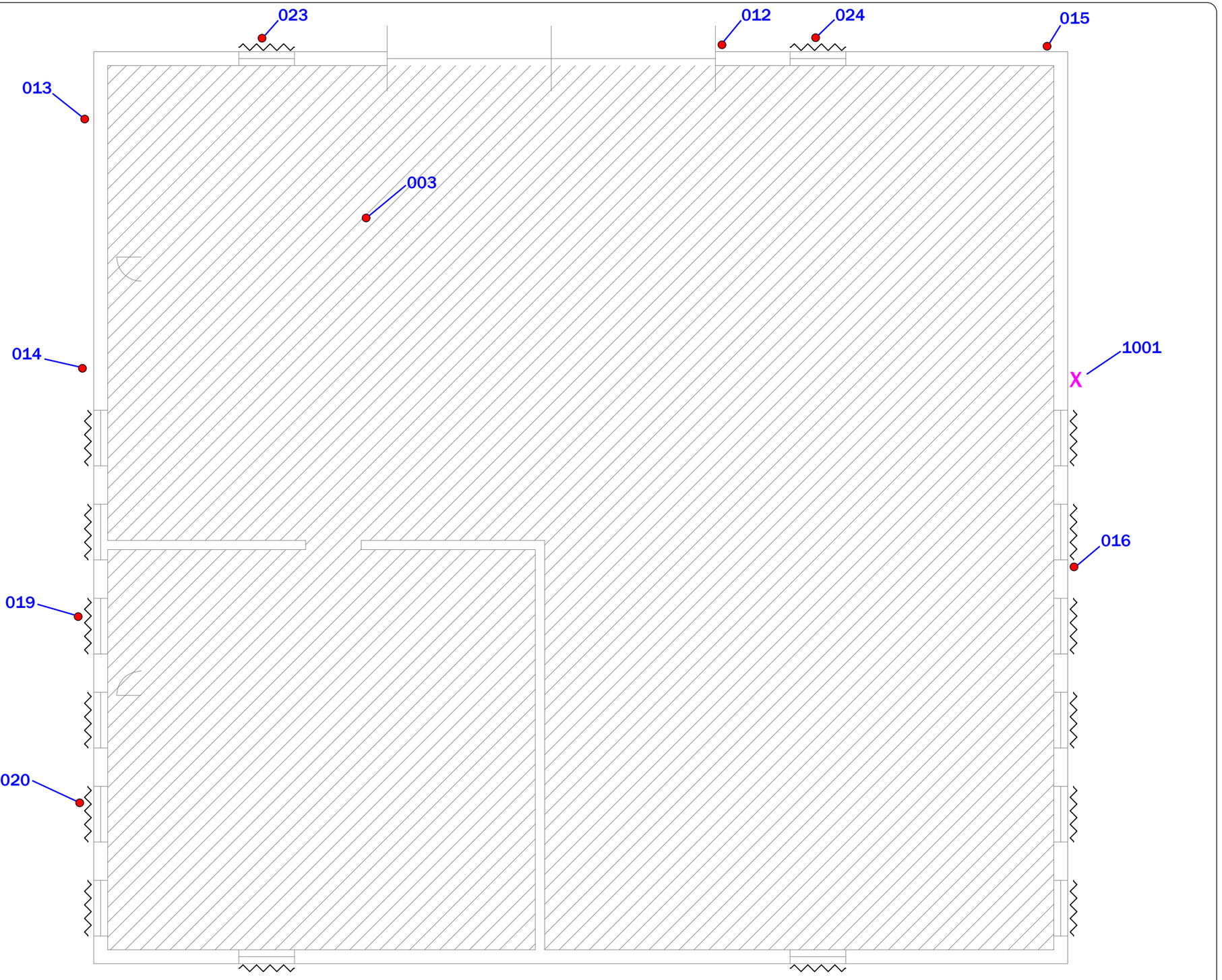

Figure 4
Shed - First Floor
Summary of
ACM and LBP Detections

Limited Pre-Renovation Hazardous
Building Materials Survey
Burns Armory
618 S Fairview Avenue
Burns, Oregon

Legend

- Positive Asbestos Sample (PBS)
- X Positive Lead-Based Paint Sample (PBS)
- ASBESTOS-CONTAINING CAULK, ASBESTOS-CONTAINING WINDOW GLAZING

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Path: X:\0_MFA_Projects\M0785\31\001\Pro\M0785_31_001_003.aprx\Fig 2 Property Overview
Project: M0785.31.001.003 Produced By: jelstrott Reviewed By: cclough Print Date: 7/8/2024

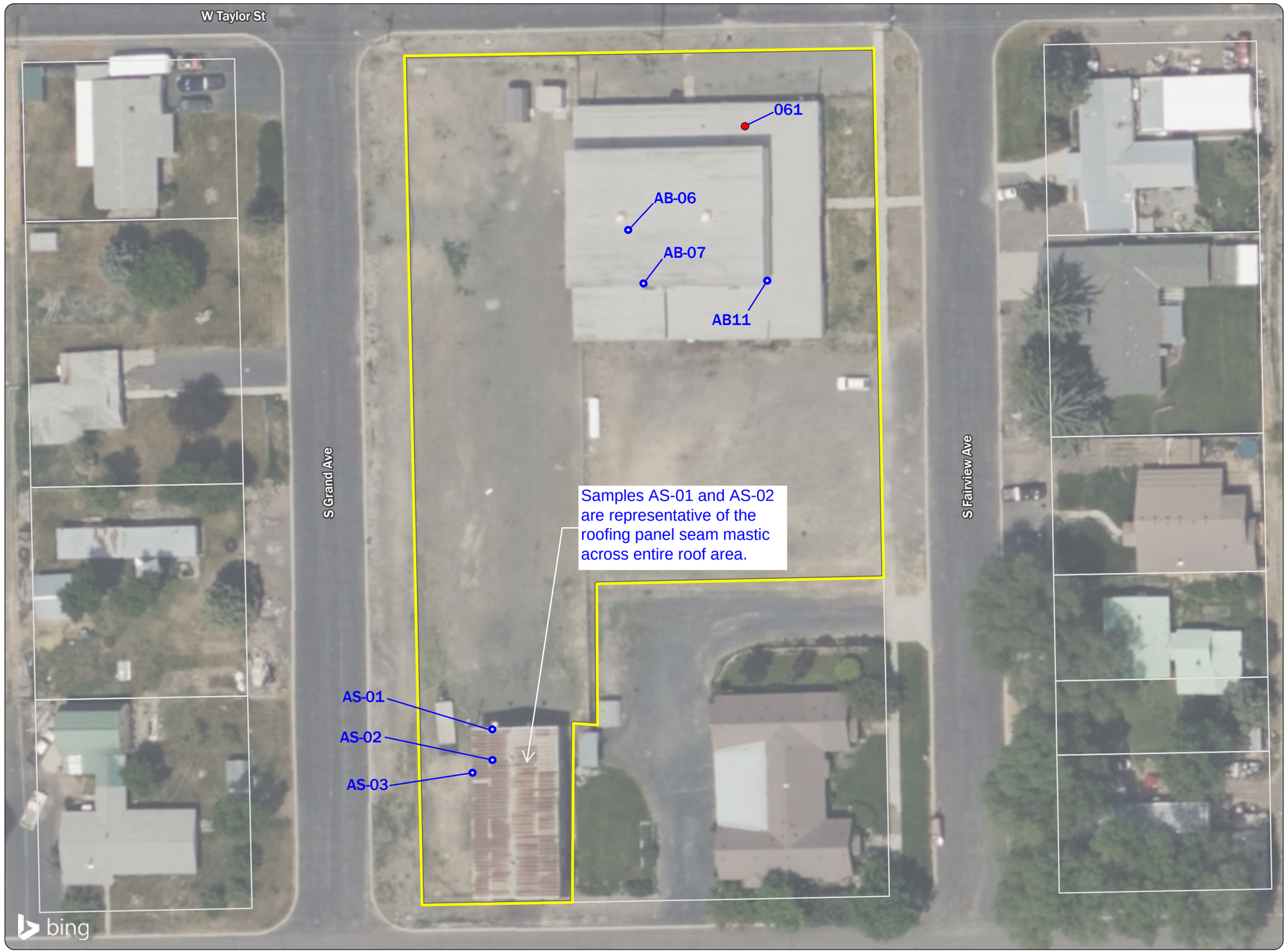

Figure 5
Roof - Summary of ACM Detections

Limited Pre-Renovation Hazardous Building Materials Survey
Burns Armory
618 S Fairview Avenue
Burns, Oregon

Legend

- Site Boundary
- Tax Lot
- Positive Asbestos Sample (MFA)
- Positive Asbestos Sample (PBS)

0 40
Feet

Data Sources
Aerial photograph obtained from Bing; tax lot data obtained from Harney County.

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Print Date: 7/8/2024
Reviewed By: cclough
Produced By: jelstrott
Project: M0785.31.001.003

Tables

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Table 1
Summary of Asbestos Sample Results
Burns Armory
618 S. Fairview Avenue, Burns, Oregon

Sample Name	Sample Date	Material Description	Location	Lab Description	Bulk Asbestos	Condition if Detected	Estimated Quantity if Detected
Armory Main Building							
AB-06	**08/15/2024**	**Black sealant/tar with silver paint**	**Exhaust vent of upper roof**	**Black asphaltic material**	**Chrysotile 14%**	Good	5 SF or 2 vents
AB-07	**08/15/2024**	**Black tar and mortar**	**Roof chimney of upper roof**	**Black asphaltic material**	**Chrysotile 16%**	Good	1 SF
AB-11	**08/15/2024**	**Cement board**	**South corner soffit, lower roof**	**Gray loose crumbly material with layered paint**	**Chrysotile 14%**	Good	150 SF
AB-12	**08/15/2024**	**Wallboard, skim coat, and joint compound**	**South office (next to classroom)**	**Off-white compacted powdery material with paint**	**Chrysotile 3%**	Good	2,500 SF
				Off-white compacted powdery material with paper	**Chrysotile 4%**		
AB-13	**08/15/2024**	**Wallboard, skim coat, and joint compound**	**Janitor's closet**	**Off-white compacted powdery material with paint**	**Chrysotile 5%**	Good	re: AB-12
				White chalky material with paper	ND		
Armory Shed							
AS-01	**08/15/2024**	**Black mastic**	**NW corner of roof panel seams on Armory Shed**	**Black asphaltic material with debris**	**Chrysotile 11%**	Good	1,600 LF
AS-02	**08/15/2024**	**Black mastic**	**NW corner of roof panel seams on Armory Shed**	**Black asphaltic material with debris**	**Chrysotile 14%**	Good	re: AS-01
AS-03	**08/15/2024**	**Black fibrous sealant**	**NW corner of roof flashing on Armory Shed (Same material as exterior siding sealant)**	**Black asphaltic hard fibrous material**	**Chrysotile 32%**	Good	1,800 LF

Notes

Bolding means asbestos detected in sample.

Samples were analyzed consistent with polarized light microscopy EPA Method 600/R-93-116.

-- = not applicable.

EPA = U.S. Environmental Protection Agency.

ND = not detected.

LF - linear feet.

SF = square feet.

Reference:

EPA. 1993. *Method for the Determination of Asbestos in Bulk Building Materials.* EPA/600/R-93/116. U.S. Environmental Protection Agency, Office of Research and Development. July.

Table 2
Summary of Lead-Based Paint Sample Results
Burns Armory
618 S. Fairview Avenue, Burns, Oregon

Test Number	Sample Date	Material Description (paint color)	Test Location	Lead Result (mg/cm^2)	Estimated Quantity at Site (square feet)
Armory Main Building					
9	08/15/2024	Gray	Door frame to gym storage	2.21	8
10	08/15/2024	Gray	Door frame to gym storage	3.23	re: test 9
11	08/15/2024	White	Door jamb to gym storage	2.71	8
12	08/15/2024	Black with blue underlayer	Door to gym gym storage, front	1.83	20
13	08/15/2024	White	Door to gym gym storage, back	1.68	20
18	08/15/2024	Black	Metal door to boiler room, front	7.24	30
20	08/15/2024	Light green	Metal door to boiler room, back	6.07	30
25	08/15/2024	Black	Door to south office	1.52	20
26	08/15/2024	Gray	Door jamb to south office	2.13	8
30	08/15/2024	Turquoise	Radiator in classroom	0.96 (+/- 0.08)	20
33	08/15/2024	White	Window frame in clasrroom, south window	1.55	36 windows
34	08/15/2024	Gray	Door frame to southeast office	1.49	8
35	08/15/2024	Black	Door to southeast office, front	2.31	20
39	08/15/2024	Black	Bulletin board, east wall of gym	3.48	20
40	08/15/2024	Black	Bulletin board, east wall of gym	3.13	re: test 39
41	08/15/2024	Gray	Door frame of entryway	1.01	8
42	08/15/2024	Black	Door to weight room, front	1.42	20
48	08/15/2024	Black	Door to janitor's closet	1.31	20
49	08/15/2024	Gray	Door jamb to janitor's closet	1.54	8
52	08/15/2024	Black	Door to messhall, front	2.88	20
53	08/15/2024	Gray	Door jamb to messhall	2.37	8
56	08/15/2024	Blue	Exterior, east window frame	2.76	re: test 33
58	08/15/2024	Blue	Exterior, east gutter	3.32	400
59	08/15/2024	Tan	Exterior, east wall	2.94	10,000
60	08/15/2024	Blue	Exterior, north window frame	2.38	re: test 33
61	08/15/2024	Tan	Exterior, north wall	1.71	re: test 59
65	08/15/2024	Blue	Exterior, northwest window frame	3.72	re: test 33
66	08/15/2024	Tan	Exterior, northwest wall	1.77	re: test 59
67	08/15/2024	Tan	Exterior, southwest wall	4.42	re: test 59
68	08/15/2024	Blue	Exterior, southeast window frame	4.07	re: test 33
90	08/16/2024	Blue	Exterior, west door	5.05	20
91	08/16/2024	Blue	Exterior, southwest roll-up door	6.12	300
92	08/16/2024	Blue	Exterior, southwest roll-up door frame	2.65	40
93	08/16/2024	Blue	Exterior, northwest roll-up door	7.07	re: test 91
94	08/16/2024	Blue	Exterior, northwest roll-up door frame	1.67	re: test 92
98	08/16/2024	Light gray	Doorframe of messhall exit door	1.89	8
Armory Shed					
83	08/16/2024	Red (burgandy)	Northeast vertical beam	1.13	1,200

Notes

A handheld X-ray fluorescence analyzer was used to determine the concentration of lead in painted or coated surfaces.

HBM = hazardous building materials.

mg/cm^2 = milligrams per square centimeter.

re: = refer to

Table 3
Summary of Asbestos-Containing Materials and Lead-Based Paint
Burns Armory
618 S. Fairview Avenue, Burns, Oregon

Regulated Material	Material Description	Location Description	Estimated Quantity	Sample/Comment
Asbestos-containing material **(MFA Survey)**	**Main Building**			
	Black sealant/tar with silver paint	Exhaust vent of upper roof	5 SF or 2 vents	AB-06
	Black tar and mortar	Roof chimney of upper roof	1 square foot	AB-07
	Cement board	South corner soffit, lower roof	150 SF	AB-11
	Wallboard, skim coat, and joint compound	South office (next to classroom)	2,500 SF	AB-12
	Wallboard, skim coat, and joint compound	Janitor's closet		AB-13
	Shed			
	Black mastic	NW corner of roof panel seams on Armory Shed	1,600 LF	AS-01 AS-02
	Black fibrous sealant	NW corner of roof flashing on Armory Shed (Same material as exterior siding sealant)	1,800 LF	AS-03
Asbestos-containing material **(PBS Survey)**[1]	**Main Building**			
	Cream and blue 12x12 VFT with **black mastic**	Entry Way, Admin Office, 1st Office, Classroom, Dining Area, & NCO Office	2,500 SF	0001, 0002, 0003
	Paper joint compound, gypsum, and paints	Dining room ceiling system	500 SF	0014, 0015 (MFA's sample AB-12)
	Tan caulk	Male latrine around duct vent	6 LF	0030
	Gray fibrous material fireproofing	Mess hall south wall interstitial above cabinets	Not quantified	0034, 0035, 0036
	Gypsum wallboard system	Mess hall, janitor's closet, weight room	1,500 SF	0040, 0042 (MFA's sample AB-13)
	White brittle window glaze	South exterior window and presume all others	7,750 LF	0060
	Black semi fibrous tar	North roof vent (lowest roof)	2 each	0061
	Tan troweled on texture material/plaster	All exterior of building Tex Material	13,000 SF	0064, 0065, 0066
	Shed			
	Black sealant	Throughout exterior panels (not roof as described in PBS report)	2000 LF	0012, 0013, 0014, 0015, 0016 (MFA's sample AS-03)
	Black sink undercoat	Interior	1 each	0003
	Gray window caulk and silver paint	All exterior windows	2,000 LF	0019, 0020
	White window glazing compound	All exterior windows	2,000 LF	0023, 0024

Table 3
Summary of Asbestos-Containing Materials and Lead-Based Paint
Burns Armory
618 S. Fairview Avenue, Burns, Oregon

Regulated Material	Material Description	Location Description	Estimated Quantity	Sample/Comment
Lead-based paint **(MFA XRF Survey)**	**Main Building**			
	Gray	Door frame to gym storage	8 SF	9
	Gray	Door frame to gym storage	re: sample 9	10
	White	Door jamb to gym storage	8 SF	11
	Black with blue underlayer	Door to gym storage, front	20 SF (entire door re: sample 13)	12
	White	Door to gym storage, back	20 SF (entire door re: sample 12)	13
	Black	Metal door to boiler room, front	30 SF (entire door re: sample 20)	18
	Light green	Metal door to boiler room, back	30 SF (entire door re: sample 18)	20
	Black	Door to south office	20 SF	25
	Gray	Door jamb to south office	8 SF	26
	Turquoise	Radiator in classroom	20 SF	30
	White	Window frame in classroom, south window	36 windows	33
	Gray	Door frame to southeast office	8 SF	34
	Black	Door to southeast office, front	20 SF	35
	Black	Bulletin board, east wall of gym	20 SF	39
	Black	Bulletin board, east wall of gym	re: sample 39	40
	Gray	Door frame of entryway	8 SF	41
	Black	Door to weight room, front	20 SF	42
	Black	Door to janitor's closet	20 SF	48
	Gray	Door jamb to janitor's closet	8 SF	49
	Black	Door to mess hall, front	20 SF	52
	Gray	Door jamb to mess hall	8 SF	53
	Blue	Exterior, east window frame	re: sample 33	56
	Blue	Exterior, east gutter	400 SF	58
	Tan	Exterior, east wall	13,000 SF	59
	Blue	Exterior, north window frame	re: sample 33	60
	Tan	Exterior, north wall	re: sample 59	61
	Blue	Exterior, northwest window frame	re: sample 33	65
	Tan	Exterior, northwest wall	re: sample 59	66
	Tan	Exterior, southwest wall	re: sample 59	67
	Blue	Exterior, southeast window frame	re: sample 33	68
	Blue	Exterior, west door	20 SF	90
	Blue	Exterior, southwest roll-up door	300 SF	91
	Blue	Exterior, southwest roll-up door frame	40 SF	92
	Blue	Exterior, northwest roll-up door	re: sample 91	93
	Blue	Exterior, northwest roll-up door frame	re: sample 92	94
	Light gray	Doorframe of mess hall exit door	8 SF	98
	Shed			
	Red (burgundy)	Northeast vertical beam	1,200	83

Table 3
Summary of Asbestos-Containing Materials and Lead-Based Paint
Burns Armory
618 S. Fairview Avenue, Burns, Oregon

Regulated Material	Material Description	Location Description	Estimated Quantity	Sample/Comment
Lead-based paint **(PBS Survey)**[1]	**Main Building**			
	White Paint	(NCO Office)	Not quantified in report	1001 (MFA did not have access to this room)
	Faded Blue Paint	Exterior	Not quantified in report	1008 (MFA's XRF sample 56, 58, 60, 65, 68, and 90-94)
	Black Paint	Janitor's Door	Not quantified in report	1009 (MFA's XRF sample 48)
	White Paint	Drill Room	Not quantified in report	1010
	Tan Paint	Exterior	Not quantified in report	1012 (MFA's XRF sample 59)
	Shed			
	Burgundy	Interior beam	Not quantified in report	1001 (MFA's XRF sample 83)

Note

Shading denotes results duplicated between PBS and MFA sampling. Noted to avoid double counting of estimated quantities.

HBM = hazardous building materials.

VFT = vinyl flooring tile

[1] PBS. 2024a. Limited Pre-Renovation Hazardous Material Report, Burns Armory Building. January 25 and PBS. 2024b. Pre-Demolition Hazardous Materials Survey Report, Burns Armory Shed. January 25.

Attachment A

Inspector Certificates

MAUL FOSTER ALONGI

Certificate of Completion

This is to certify that

Julie Pace

has satisfactorily completed
4 hours of refresher training as an

AHERA Building Inspector

to comply with the training requirements of

TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

192181
Certificate Number

Instructor: Ed Edinger

Jan 10, 2024 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Terracon
Explore with us

- Facilities
- Environmental
- Geotechnical
- Materials

State of Oregon
Oregon Health Authority

Julie A. Pace

is certified by the Oregon Health Authority to conduct Lead-Based Paint Activities

Risk Assessor

Certification Number:	2826--Indv--R
Issuance Date:	1/25/2024
Expiration Date:	1/25/2027

Oregon Health Authority

Attachment B

Photograph Log

MAUL
FOSTER
ALONGI

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 1.

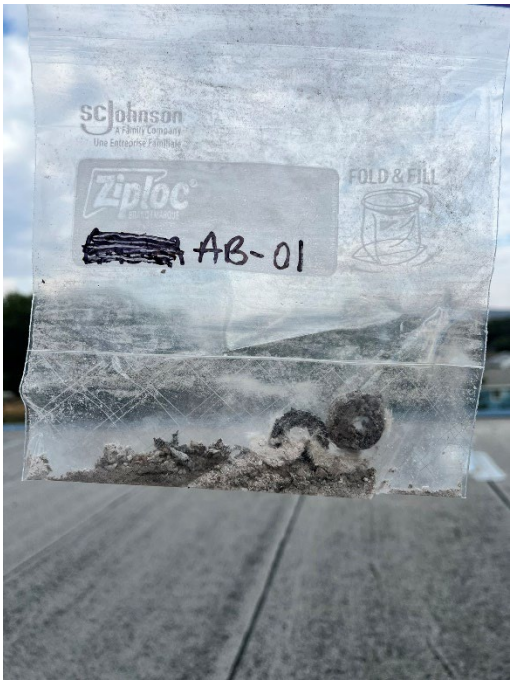
Exterior

A general picture of the two-story Armory Building.

Photo No. 2.

Roofing core samples (upper-most roof)

Sample AB-01, **non-detect for asbestos.**



Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 3.

Roofing core samples (upper-most roof)

Sample AB-02, **non-detect for asbestos.**

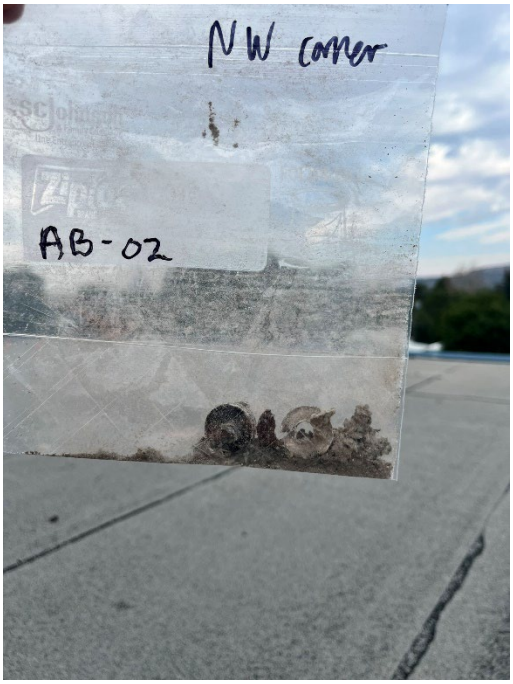
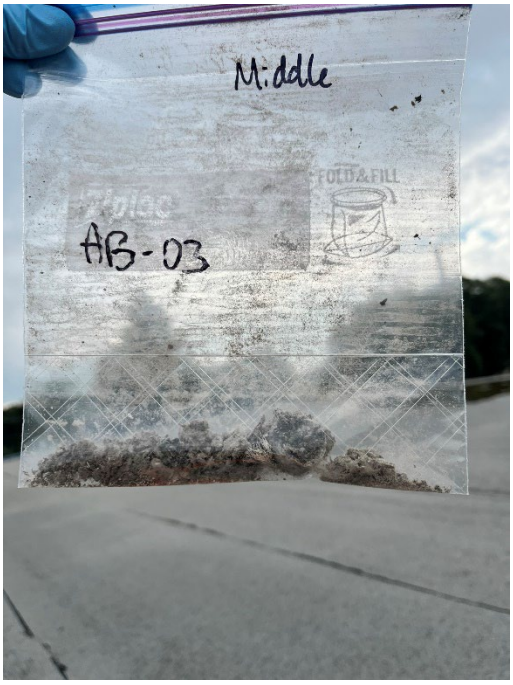


Photo No. 4.

Roofing core samples (upper-most roof)

Sample AB-03, **non-detect for asbestos.**



Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 5.

Roofing core samples (upper-most roof)

Sample AB-04, **non-detect for asbestos.**

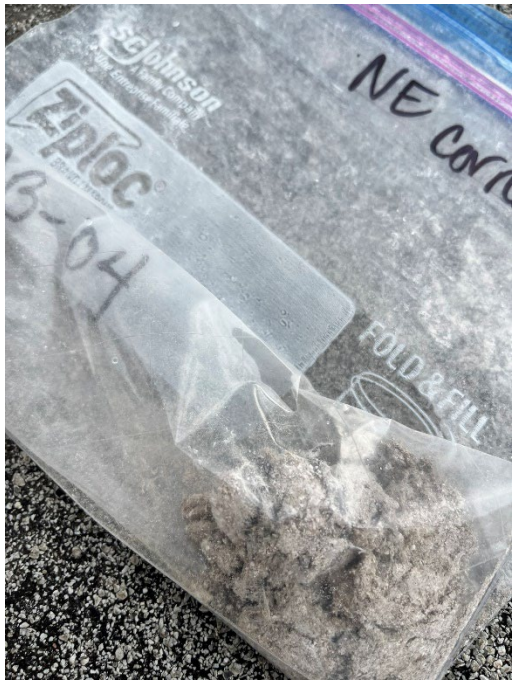
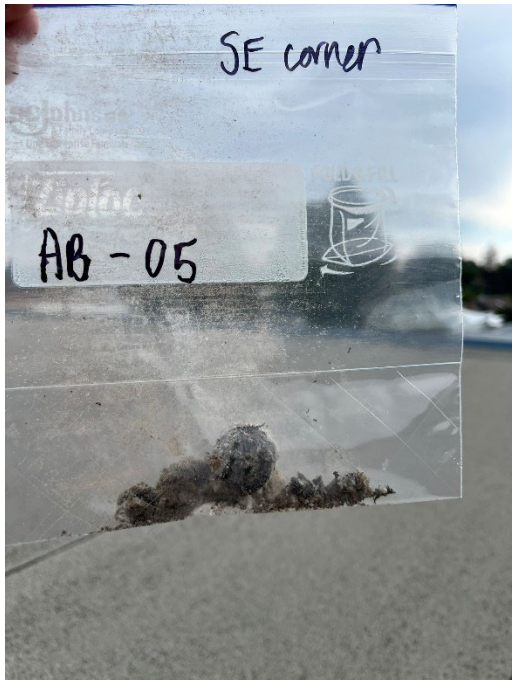


Photo No. 6.

Roofing core samples (upper-most roof)

Sample AB-05, **non-detect for asbestos.**



Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 7.

Rooftop vent samples (upper-most roof)

Sample AB-06, asbestos detected.

Photo No. 8.

Rooftop vent samples (upper-most roof)

Sample AB-06, asbestos detected.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 9.

Rooftop chimney samples (upper-most roof)

Sample AB-07, **asbestos detected.**

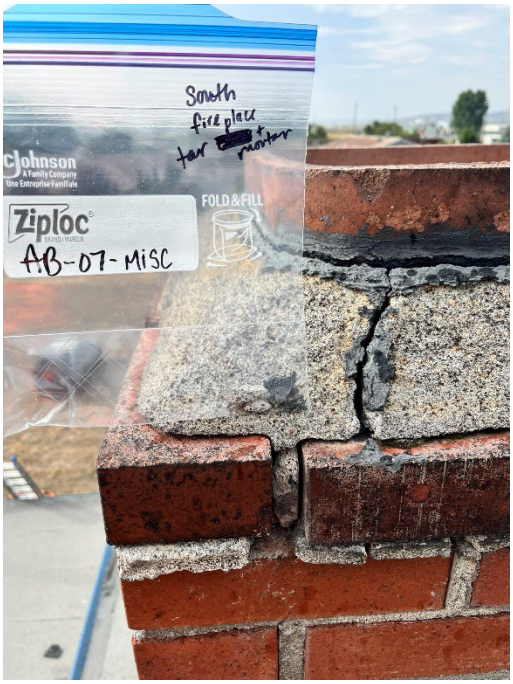
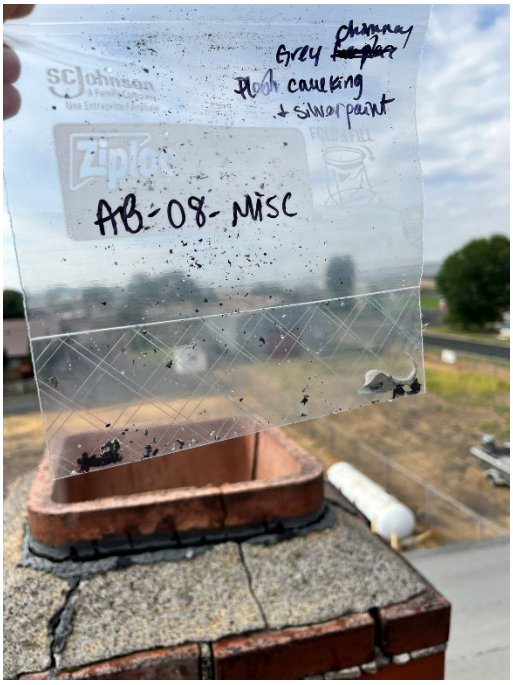


Photo No. 10.

Rooftop chimney samples (upper-most roof)

Sample AB-08, **non-detect for asbestos.**



Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 11.

Armory Main Building, classroom ceiling

Sample AB-09, **non-detect for asbestos.**

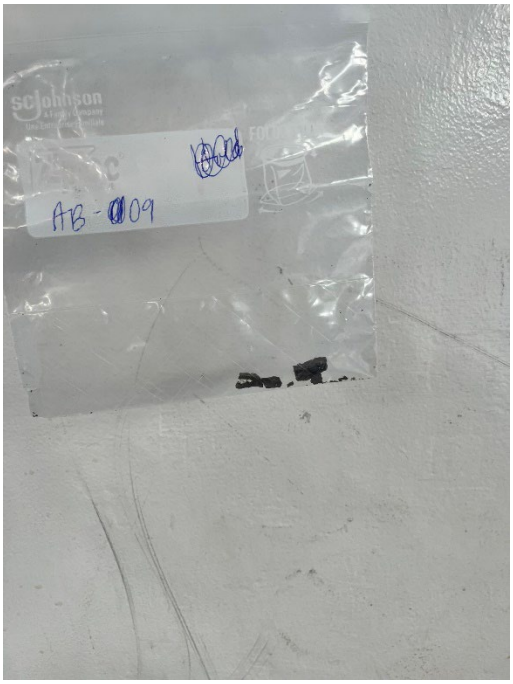
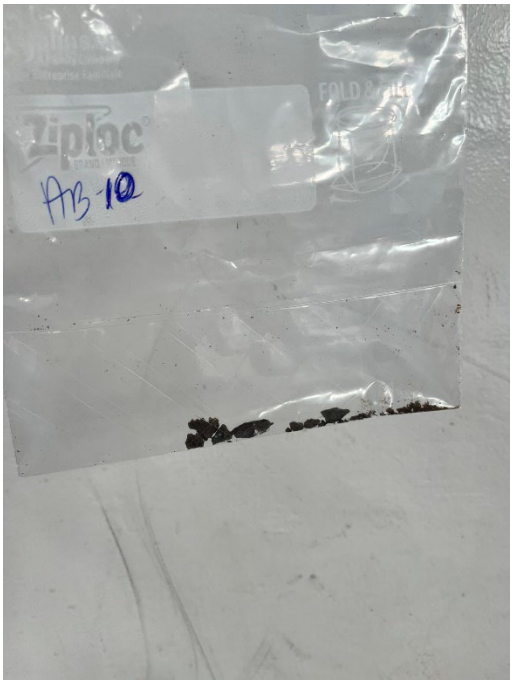


Photo No. 12.

Armory Main Building, classroom ceiling

Sample AB-10, **non-detect for asbestos.**



Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 13.

Exterior of Main Armory building, roof soffit.

Sample AB-11, asbestos detected.

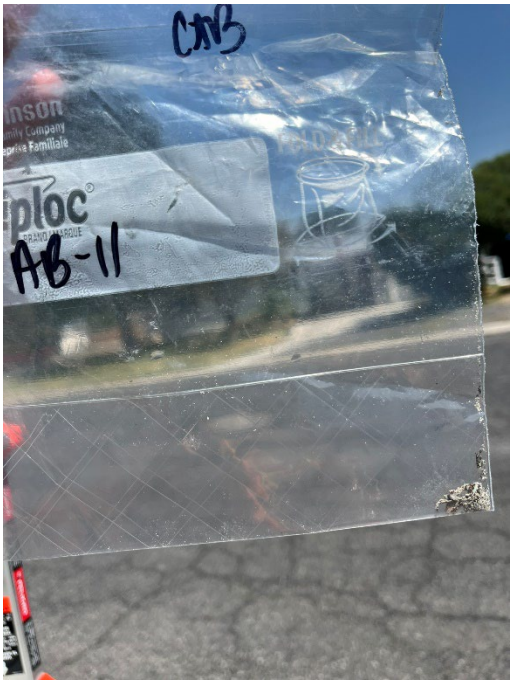


Photo No. 14.

Exterior of Main Armory building, roof soffit.

Sample AB-11, asbestos detected.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 15.

Armory Main Building, south office (next to classroom)

Sample AB-12, asbestos detected.

Photo No. 16.

Armory Main Building, Janitor's Closet

Sample AB-13, asbestos detected.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 17.

Armory Shed, roofing material

Sample AS-01, asbestos detected.

Photo No. 18.

Armory Shed, roofing material

Sample AS-01, asbestos detected.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 19.

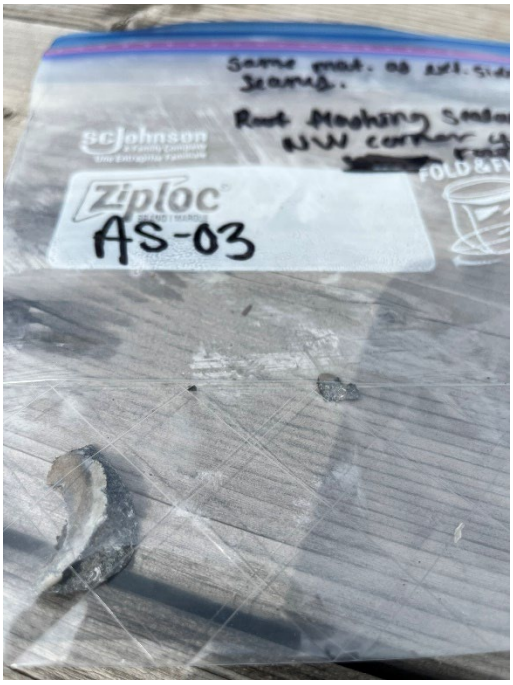
Armory Shed, roofing material

Sample AS-02, asbestos detected.

Photo No. 20.

Armory Shed, roof flashing (same material as exterior siding mastic)

Sample AS-03, asbestos detected.



Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 21.

Armory Shed, exterior

The northwest side of the shed.

Photo No. 22.

Armory Shed, interior

North entrance to shed.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 23.

Armory Shed, interior

Example of items and ground affected by bird droppings.

Photo No. 24.

Armory Shed, interior

Example of items and ground affected by bird droppings.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 25.

Armory Shed, interior

Example of items and ground affected by bird droppings.

Photo No. 26.

Armory Shed, interior

Example of items affected by bird droppings.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 27.

Armory Shed, interior

Example of items and ground affected by bird droppings.

Photo No. 28.

Armory Shed, interior

Example of items and ground affected by bird droppings.

Photographs

Project Name: Limited Pre-Renovation Hazardous Material Survey
Project Number: M0785.31.001
Location: Burns, Oregon (Armory Building and Armory Shed)

Photo No. 29.

Armory Shed, interior

Example of items and ground affected by bird droppings.

Photo No. 30.

Armory Shed, interior

Example of items and ground affected by bird droppings.

Attachment C

Analytical Laboratory Reports

MAUL FOSTER ALONGI

August 23, 2024

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

Chris Clough
Maul Foster & Alongi - Portland
3140 NE Broadway
Portland, OR 97232

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2414973.00

Client Project: M0785.31.001-004
Location: Burns, Oregon

Dear Mr. Clough,

Enclosed please find test results for the 16 sample(s) submitted to our laboratory for analysis on 8/20/2024.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Munaf Khan, President/Laboratory Director

NVLAP
Testing
Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414973.00
Client Project #: M0785.31.001-004
Date Received: 8/20/2024
Samples Received: 16
Samples Analyzed: 16
Method: EPA/600/R-93/116

Lab ID: 24089723 **Client Sample #: AB-01**

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 2 **Description:** Gray fibrous sandy crumbly material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine grains, Fine particles	Cellulose	55%	**None Detected ND**
	Glass fibers	16%	
	Synthetic fibers	1%	

Layer 2 of 2 **Description:** Crumbly black asphaltic material with mineral grains and debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Asphaltic Particles, Fine grains	Synthetic fibers	16%	**None Detected ND**
Debris	Glass fibers	14%	
	Cellulose	4%	

Lab ID: 24089724 **Client Sample #: AB-02**

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 2 **Description:** Gray fibrous sandy crumbly material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine grains, Fine particles	Cellulose	48%	**None Detected ND**
	Glass fibers	11%	
	Synthetic fibers	1%	

Layer 2 of 2 **Description:** Crumbly black asphaltic material with mineral grains and debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Asphaltic Particles, Fine grains	Synthetic fibers	33%	**None Detected ND**

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 08/21/2024
Reviewed by: Munaf Khan **Date:** 08/23/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414973.00
Client Project #: M0785.31.001-004
Date Received: 8/20/2024
Samples Received: 16
Samples Analyzed: 16
Method: EPA/600/R-93/116

		Glass fibers 9%	
		Cellulose 2%	

Lab ID: 24089725 **Client Sample #: AB-03**

Location: Burns, Oregon

Comments: Unsure of correct layer sequence.

Layer 1 of 2	**Description:** Gray fibrous sandy crumbly material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Cellulose 53%	**None Detected ND**
		Glass fibers 14%	
		Synthetic fibers 2%	
Layer 2 of 2	**Description:** Crumbly black asphaltic material with mineral grains and debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Fine grains	Synthetic fibers 32%	**None Detected ND**
		Cellulose 7%	
		Cellulose 3%	

Lab ID: 24089726 **Client Sample #: AB-04**

Location: Burns, Oregon

Layer 1 of 2	**Description:** Gray fibrous sandy crumbly material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Cellulose 55%	**None Detected ND**
		Glass fibers 16%	
Layer 2 of 2	**Description:** Crumbly black asphaltic material with mineral grains and debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Fine grains	Synthetic fibers 35%	**None Detected ND**

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 08/21/2024
Reviewed by: Munaf Khan **Date:** 08/23/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414973.00
Client Project #: M0785.31.001-004
Date Received: 8/20/2024
Samples Received: 16
Samples Analyzed: 16
Method: EPA/600/R-93/116

		Glass fibers 6%	
		Cellulose 4%	

Lab ID: 24089727 **Client Sample #: AB-05**
Location: Burns, Oregon

Layer 1 of 2 **Description:** Gray fibrous sandy crumbly material

	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Cellulose 49%	**None Detected ND**
		Glass fibers 11%	

Layer 2 of 2 **Description:** Crumbly black asphaltic material with mineral grains and debris

	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Fine grains	Synthetic fibers 36%	**None Detected ND**
		Glass fibers 9%	
		Cellulose 3%	

Lab ID: 24089728 **Client Sample #: AB-06**
Location: Burns, Oregon

Layer 1 of 2 **Description:** Silver paint

	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint, Paint/Binder, Fine particles	Cellulose <1%	**None Detected ND**

Layer 2 of 2 **Description:** Black asphaltic material

	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Fine grains	Cellulose 2%	**Chrysotile 14%**
		Glass fibers 2%	

Lab ID: 24089729 **Client Sample #: AB-07**
Location: Burns, Oregon

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 08/21/2024
Reviewed by: Munaf Khan **Date:** 08/23/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414973.00
Client Project #: M0785.31.001-004
Date Received: 8/20/2024
Samples Received: 16
Samples Analyzed: 16
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles, Mineral grains	Cellulose 2%	**Chrysotile 16%**
Layer 2 of 2	**Description:** Gray cementitious material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Cement/Binder, Mineral grains, Fine particles	Cellulose 2%	**None Detected ND**
	Gravel		

Lab ID: 24089730 **Client Sample #: AB-08**
Location: Burns, Oregon

Layer 1 of 3	**Description:** Silver paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Paint/Binder, Metallic paint, Fine particles	Cellulose <1%	**None Detected ND**
Layer 2 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Asphaltic Particles	Glass fibers 2%	**None Detected ND**
Layer 3 of 3	**Description:** Gray soft rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Caulking compound, Fine particles	Polyethylene fibers 11%	**None Detected ND**

Lab ID: 24089731 **Client Sample #: AB-09**
Location: Burns, Oregon

Layer 1 of 2	**Description:** Brown brittle mastic with debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Mineral grains	Glass fibers 7%	**None Detected ND**
	Debris	Talc fibers 4%	

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 08/21/2024
Reviewed by: Munaf Khan **Date:** 08/23/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414973.00
Client Project #: M0785.31.001-004
Date Received: 8/20/2024
Samples Received: 16
Samples Analyzed: 16
Method: EPA/600/R-93/116

Wollastonite <1%

Layer 2 of 2 **Description:** White crumbly fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Glass debris, Fine particles	Glass fibers 82%	**None Detected ND**

Lab ID: 24089732 **Client Sample #: AB-10**

Location: Burns, Oregon

Layer 1 of 1 **Description:** Brown brittle mastic with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles, Mineral grains	Glass fibers 9%	**None Detected ND**
Debris	Talc fibers 5%	

Lab ID: 24089733 **Client Sample #: AB-11**

Location: Burns, Oregon

Layer 1 of 1 **Description:** Gray loose crumbly material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine grains, Fine particles	Cellulose 3%	**Chrysotile 14%**
Paint		

Lab ID: 24089734 **Client Sample #: AB-12**

Location: Burns, Oregon

Layer 1 of 3 **Description:** Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Fine grains	Mineral fibers 1%	**Chrysotile 3%**
Mineral grains, Paint	Cellulose <1%	

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 08/21/2024
Reviewed by: Munaf Khan **Date:** 08/23/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414973.00
Client Project #: M0785.31.001-004
Date Received: 8/20/2024
Samples Received: 16
Samples Analyzed: 16
Method: EPA/600/R-93/116

Layer 2 of 3 **Description:** Off-white compacted powdery material with paper

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Fine grains	Cellulose	32%	**Chrysotile 4%**
Mineral grains	Mineral fibers	<1%	

Layer 3 of 3 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Gypsum/Binder, Fine grains, Fine particles	Cellulose	28%	**None Detected ND**
	Glass fibers	2%	

Lab ID: 24089735 **Client Sample #: AB-13**

Location: Burns, Oregon

Layer 1 of 2 **Description:** Off-white compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Fine grains	Mineral fibers	1%	**Chrysotile 5%**
Mineral grains, Paint			

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Gypsum/Binder, Fine grains, Fine particles	Cellulose	18%	**None Detected ND**
	Glass fibers	3%	

Lab ID: 24089736 **Client Sample #: AS-01**

Location: Burns, Oregon

Layer 1 of 1 **Description:** Black asphaltic material with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Asphaltic Particles, Debris	Cellulose	4%	**Chrysotile 11%**
Sand, Mineral grains	Glass fibers	2%	

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 08/21/2024
Reviewed by: Munaf Khan **Date:** 08/23/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2414973.00
Client Project #: M0785.31.001-004
Date Received: 8/20/2024
Samples Received: 16
Samples Analyzed: 16
Method: EPA/600/R-93/116

Lab ID: 24089737 **Client Sample #: AS-02**

Location: Burns, Oregon

Layer 1 of 1 **Description:** Black asphaltic material with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Asphaltic Particles, Debris	Cellulose	3%	**Chrysotile 14%**
Mineral grains	Glass fibers	1%	

Lab ID: 24089738 **Client Sample #: AS-03**

Location: Burns, Oregon

Layer 1 of 1 **Description:** Black asphaltic hard fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Asphaltic Particles	Cellulose	1%	**Chrysotile 32%**

Sampled by: Client
Analyzed by: Ghulam Nazari **Date:** 08/21/2024
Reviewed by: Munaf Khan **Date:** 08/23/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES

Company	Maul Foster & Alongi - Portland	**NVL Batch Number**	**2414973.00**
Address	3140 NE Broadway Portland, OR 97232	**TAT** 3 Days	**AH** No
		Rush TAT	
Project Manager	Mr. Chris Clough	**Due Date** 8/23/2024	**Time** 9:30 AM
Phone	(971) 544-2139	**Email**	cclough@maulfoster.com
Cell	(503) 330-7781	**Fax**	() -

Project Name/Number: M0785.31.001-004 **Project Location:** Burns, Oregon

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 16 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	24089723	AB-01		A
2	24089724	AB-02		A
3	24089725	AB-03		A
4	24089726	AB-04		A
5	24089727	AB-05		A
6	24089728	AB-06		A
7	24089729	AB-07		A
8	24089730	AB-08		A
9	24089731	AB-09		A
10	24089732	AB-10		A
11	24089733	AB-11		A
12	24089734	AB-12		A
13	24089735	AB-13		A
14	24089736	AS-01		A
15	24089737	AS-02		A
16	24089738	AS-03		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	8/20/24	930
Analyzed by	Ghulam Nazari		NVL	8/21/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 8/20/2024
Time: 11:08 AM
Entered By: Kelly AuVu

ARMORY - cheaper overnight

2414973

NVL
INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

ASBESTOS CHAIN OF CUSTODY

Turn Aroun
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☒ 3 Days
- ☐ 4 Days
- ☐ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company Maul Foster Alongi
Address 3140 NE Broadway
Portland, OR 97232
Phone 503-330-7781

Project Manager Chris Clough
Cell ( ) -
Email CClough@maulfoster.com
Fax ( ) -

Project Name/Number M0785.31.001 004
Project Location Burns Oregon

- ☐ PCM Air (NIOSH 7400)
- ☒ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions email above
☐ Call ( ) - ☐ Fax ( ) - ☐ Email

Total Number of Samples _____

	Sample ID	Description	
1	AB-01	Roof core - black tar + gray fibrous insulation	A/R
2	AB-02	" "	
3	AB-03	" "	
4	AB-04	" "	
5	AB-05	" "	
6	AB-06	Black sealant w/ silver paint	
7	AB-07	Black tar + mortar	
8	AB-08	gray caulk + silver paint	
9	AB-09	Brown glue dots	
10	AB-10	Brown glue dots	
11	AB-11	suspect CAB	
12	AB-12	Wallboard, skimcoat, tape, + joint compound	
13	AB-13	" " "	
14	AS-01	Black mastic	
15	AS-02	Black mastic	
16	AS-03	Black fibrous sealant	

	Print Name	Signature	Company	Date	Time
Sampled by	Julie Pace		MFA	08/15/24	9:00 am
Relinquish by	Julie Pace		MFA	08/19/24	18:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kamper			8/20/24	9:30
Analyzed by					
Called by					
Faxed/Email by					

September 12, 2024

INDUSTRIAL HYGIENE SERVICES
LABORATORY + MANAGEMENT + TRAINING

Chris Clough
Maul Foster & Alongi - Portland
3140 NE Broadway
Portland, OR 97232

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2416300.00

Client Project: M0785.31.001-004
Location: Burns, Oregon

Dear Mr. Clough,

Enclosed please find test results for the 2 sample(s) submitted to our laboratory for analysis on 9/9/2024.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Munaf Khan, President/Laboratory Director

NVLAP
Testing
Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Maul Foster & Alongi - Portland
Address: 3140 NE Broadway
Portland, OR 97232

Attention: Mr. Chris Clough
Project Location: Burns, Oregon

Batch #: 2416300.00
Client Project #: M0785.31.001-004
Date Received: 9/9/2024
Samples Received: 2
Samples Analyzed: 2
Method: EPA/600/R-93/116

Lab ID: 24096859 **Client Sample #: AB-12**

Location: Burns, Oregon

Comments: Per written client request, analysis will combine layers present for a composite analysis.

Layer 1 of 1 **Description:** Off-white compacted powdery materials with paint & paper & white chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Gypsum/Binder	Cellulose 33%	**Chrysotile 2%**
Fine particles, Paint	Glass fibers 2%	

Lab ID: 24096860 **Client Sample #: AB-13**

Location: Burns, Oregon

Comments: Per written client request, analysis will combine layers present for a composite analysis.

Layer 1 of 1 **Description:** Off-white compacted powdery material with paint & white chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Gypsum/Binder	Cellulose 30%	**Chrysotile 2%**
Fine particles, Paint	Glass fibers <1%	

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 09/12/2024
Reviewed by: Munaf Khan **Date:** 09/12/2024

Munaf Khan, President/Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES

Company	Maul Foster & Alongi - Portland	**NVL Batch Number**	**2416300.00**
Address	3140 NE Broadway Portland, OR 97232	**TAT** 4 Days **AH** No **Rush TAT**	
Project Manager	Mr. Chris Clough	**Due Date** 9/13/2024 **Time** 8:00 AM	
Phone	(971) 544-2139	**Email** cclough@maulfoster.com	
Cell	(503) 330-7781	**Fax** () -	

Project Name/Number: M0785.31.001-004 **Project Location:** Burns, Oregon

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 2 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	24096859	AB-12	Composite	A
2	24096860	AB-13	Composite	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Emailed by Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	9/9/24	800
Analyzed by	Hilary Crumley		NVL	9/12/24	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: Samples originally from batch 2414973

Date: 9/10/2024
Time: 11:30 AM
Entered By: Kelly AuVu

2416300

Kelly Au Vu

From: Chris Clough <cclough@maulfoster.com>
Sent: Monday, September 9, 2024 6:02 AM
To: Client Services
Subject: RE: Your completed NVL Final Report document: M078531001-004 Burns, Oregon

Importance: High

Hello Client Services,

I would like to request a follow up analysis of a couple of samples from the M0785.31.001-004 (2414973.00) report. Please see the requests below and let me know if you have any questions.

- Composite the layers within Sample AB-12 and reanalyze the composited mixture.
- Composite the layers within Sample AB-13 and reanalyze the composited mixture.

What TAT would I need to select to get results Friday morning? Is that speed something you can accommodate?

Thanks!
CHRIS CLOUGH | MAUL FOSTER & ALONGI, INC.
Project Environmental Scientist
pronouns: he/him
m. 503 330 7781

MAUL FOSTER ALONGI

3140 NE Broadway, Portland, OR 97232
www.maulfoster.com

From: Chris Clough <cclough@maulfoster.com>
Sent: Tuesday, September 3, 2024 10:38 AM
To: clientservices@nvllabs.com
Subject: RE: Your completed NVL Final Report document: M078531001-004 Burns, Oregon

Hello Client Services,

How long will these samples be in your possession? I am confirming with our client if we wish to perform any follow up reanalysis on these results.

Thanks!
CHRIS CLOUGH | MAUL FOSTER & ALONGI, INC.
Project Environmental Scientist
pronouns: he/him
m. 503 330 7781

MAUL FOSTER ALONGI

3140 NE Broadway, Portland, OR 97232

Attachment D

XRF Data

MAUL
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Date	Test #	Pass/Fail	Unit type	Pass/Fail Grade	Mode	Pass/Fail S	Calibration	Pass/Fail Threshold	Display Sigma	LOD Sigma AVG	Classificati	Action Leve	Pb	Pb +/-	Pb P/F	Building
8/15/2024 16:06	1	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.09	0.04	Positive	Armory Main Building
8/15/2024 16:07	2	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1	0.04	Positive	Armory Main Building
8/15/2024 16:07	3	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.07	0.04	Positive	Armory Main Building
8/15/2024 16:16	4		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.39	0.04	Negative	Armory Main Building
8/15/2024 16:18	5		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.69	0.15	Negative	Armory Main Building
8/15/2024 16:19	6		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.64	0.14	Negative	Armory Main Building
8/15/2024 16:20	7		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.69	0.11	Negative	Armory Main Building
8/15/2024 16:22	8		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.37	0.02	Negative	Armory Main Building
8/15/2024 16:23	9		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.21	0.27	Positive	Armory Main Building
8/15/2024 16:24	10		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	3.23	0.9	Positive	Armory Main Building
8/15/2024 16:24	11		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.71	0.73	Positive	Armory Main Building
8/15/2024 16:25	12		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.83	0.11	Positive	Armory Main Building
8/15/2024 16:26	13		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.68	0.17	Positive	Armory Main Building
8/15/2024 16:27	14		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.67	0.14	Negative	Armory Main Building
8/15/2024 16:27	15		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.29	0.08	Negative	Armory Main Building
8/15/2024 16:28	16		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:29	17		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.47	0.11	Negative	Armory Main Building
8/15/2024 16:29	18		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	7.24	0.53	Positive	Armory Main Building
8/15/2024 16:30	19		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.25	0.07	Negative	Armory Main Building
8/15/2024 16:30	20		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	6.07	0.34	Positive	Armory Main Building
8/15/2024 16:31	21		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.12	0.05	Negative	Armory Main Building
8/15/2024 16:31	22		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.19	0.07	Negative	Armory Main Building
8/15/2024 16:32	23		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.15	0.02	Negative	Armory Main Building
8/15/2024 16:33	24		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:33	25		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.52	0.23	Positive	Armory Main Building
8/15/2024 16:35	26		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.13	0.29	Positive	Armory Main Building
8/15/2024 16:36	27		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.69	0.12	Negative	Armory Main Building
8/15/2024 16:36	28		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.37	0.04	Negative	Armory Main Building
8/15/2024 16:39	29		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.56	0.17	Negative	Armory Main Building
8/15/2024 16:40	30		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.96	0.08	Positive	Armory Main Building
8/15/2024 16:41	31		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.42	0.03	Negative	Armory Main Building
8/15/2024 16:42	32		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.48	0.14	Negative	Armory Main Building
8/15/2024 16:43	33		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.55	0.2	Positive	Armory Main Building
8/15/2024 16:44	34		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.49	0.24	Positive	Armory Main Building
8/15/2024 16:45	35		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.31	0.64	Positive	Armory Main Building
8/15/2024 16:46	36		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.7	0.15	Negative	Armory Main Building
8/15/2024 16:46	37		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:47	38		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.66	0.12	Negative	Armory Main Building
8/15/2024 16:48	39		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	3.48	0.04	Positive	Armory Main Building
8/15/2024 16:49	40		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	3.13	0.03	Positive	Armory Main Building
8/15/2024 16:50	41		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.01	0.08	Positive	Armory Main Building
8/15/2024 16:51	42		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.42	0.12	Positive	Armory Main Building
8/15/2024 16:53	43		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:53	44		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:54	45		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:55	46		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:56	47		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.4	0.09	Negative	Armory Main Building
8/15/2024 16:57	48		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.31	0.11	Positive	Armory Main Building
8/15/2024 16:58	49		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.54	0.24	Positive	Armory Main Building
8/15/2024 16:58	50		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.46	0.02	Negative	Armory Main Building
8/15/2024 16:59	51		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 16:59	52		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.88	0.93	Positive	Armory Main Building
8/15/2024 17:00	53		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.37	0.32	Positive	Armory Main Building
8/15/2024 17:00	54		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/15/2024 17:01	55		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.31	0.09	Negative	Armory Main Building
8/15/2024 17:08	56		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.76	0.39	Positive	Armory Main Building
8/15/2024 17:09	57		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.01	0.01	Negative	Armory Main Building
8/15/2024 17:10	58		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	3.32	1.05	Positive	Armory Main Building
8/15/2024 17:10	59		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.94	0.64	Positive	Armory Main Building
8/15/2024 17:11	60		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.38	0.61	Positive	Armory Main Building
8/15/2024 17:13	61		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.71	0.17	Positive	Armory Main Building
8/15/2024 17:14	62		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.24	0.02	Negative	Armory Main Building
8/15/2024 17:14	63		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.13	0.01	Negative	Armory Main Building
8/15/2024 17:14	64		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.09	0.01	Negative	Armory Main Building
8/15/2024 17:15	65		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	3.72	0.7	Positive	Armory Main Building
8/15/2024 17:15	66		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.77	0.33	Positive	Armory Main Building
8/15/2024 17:16	67		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	4.42	1.35	Positive	Armory Main Building
8/15/2024 17:17	68		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	4.07	0.27	Positive	Armory Main Building
8/15/2024 17:18	69	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.1	0.04	Positive	Armory Main Building
8/15/2024 17:18	70	Pass	mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.2	0.1	Positive	Armory Main Building
8/15/2024 17:19	71	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.03	0.04	Positive	Armory Main Building
8/15/2024 17:19	72	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.02	0.04	Positive	Armory Main Building
8/15/2024 17:19	73	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.03	0.04	Positive	Armory Main Building
8/16/2024 11:34	74	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.1	0.04	Positive	Armory Main Building
8/16/2024 11:34	75	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.07	0.04	Positive	Armory Main Building
8/16/2024 11:34	76	Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal		0	1	3		1	1.13	0.04	Positive	Armory Main Building
8/16/2024 11:35	77		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.01	0.01	Negative	Armory Shed
8/16/2024 11:35	78		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.35	0.02	Negative	Armory Shed
8/16/2024 11:36	79		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.03	0.01	Negative	Armory Shed
8/16/2024 11:38	80		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.04	0.01	Negative	Armory Shed
8/16/2024 11:39	81		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.5	0.02	Negative	Armory Shed
8/16/2024 11:40	82		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.02	0.01	Negative	Armory Shed
8/16/2024 11:55	83		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.13	0.07	Positive	Armory Shed
8/16/2024 11:56	84		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.01	0.01	Negative	Armory Shed
8/16/2024 11:57	85		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.07	0.01	Negative	Armory Shed
8/16/2024 11:58	86		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.05	0.01	Negative	Armory Shed
8/16/2024 12:00	87		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.84	0.07	Negative	Armory Shed
8/16/2024 12:02	88		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.01	0.01	Negative	Armory Shed
8/16/2024 12:02	89		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.45	0.02	Negative	Armory Shed
8/16/2024 12:20	90		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	5.05	0.27	Positive	Armory Main Building
8/16/2024 12:21	91		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	6.12	0.29	Positive	Armory Main Building
8/16/2024 12:21	92		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	2.65	0.56	Positive	Armory Main Building
8/16/2024 12:22	93		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	7.07	0.3	Positive	Armory Main Building
8/16/2024 12:23	94		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.67	0.25	Positive	Armory Main Building
8/16/2024 12:25	95		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.93	0.1	Negative	Armory Main Building
8/16/2024 12:26	96		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/16/2024 12:26	97		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.63	0.06	Negative	Armory Main Building
8/16/2024 12:27	98		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.89	0.26	Positive	Armory Main Building
8/16/2024 12:45	99		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.73	0.13	Negative	Armory Main Building
8/16/2024 12:46	100		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.03	0.01	Negative	Armory Main Building
8/16/2024 12:47	101		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Armory Main Building
8/16/2024 12:48	102		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.58	0.1	Negative	Armory Main Building
8/16/2024 12:48	103		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.45	0.04	Negative	Armory Main Building
8/16/2024 13:23	104		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0	0.01	Negative	Lincoln School
8/16/2024 13:26	105		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.28	0.17	Negative	Lincoln School
8/16/2024 13:26	106		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.36	0.18	Positive	Lincoln School
8/16/2024 13:27	107		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	1.27	0.13	Positive	Lincoln School
8/16/2024 13:29	108		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.11	0.02	Negative	Lincoln School
8/16/2024 13:41	109		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.05	0.01	Negative	Lincoln School
8/16/2024 13:42	110		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.22	0.1	Negative	Lincoln School
8/16/2024 13:43	111		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.1	0.02	Negative	Lincoln School
8/16/2024 13:43	112		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.17	0.17	Negative	Lincoln School
8/16/2024 13:45	113		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.03	0.01	Negative	Lincoln School
8/16/2024 13:45	114		mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint		0	1	3	1	1	0.51	0.04	Negative	Lincoln School

8/16/2024 13:46	115	mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint	0	1	3	1	1	0.75	0.11	Negative	Lincoln School
8/16/2024 13:46	116	mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint	0	1	3	1	1	0.77	0.08	Negative	Lincoln School
8/16/2024 13:47	117	mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint	0	1	3	1	1	0.85	0.07	Negative	Lincoln School
8/16/2024 13:47	118	mg/cm2	N/A	Lead Paint (Quick)	0	LeadPaint	0	1	3	1	1	0.8	0.09	Negative	Lincoln School
8/16/2024 13:59	119 Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal	0	1	3		1	1.05	0.04	Positive	Lincoln School
8/16/2024 13:59	120 Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal	0	1	3		1	1.04	0.04	Positive	Lincoln School
8/16/2024 13:59	121 Pass	mg/cm2	N/A	Lead Paint (Timed)	0	PCS Cal	0	1	3		1	1.08	0.04	Positive	Lincoln School