ADDENDUM NO. 1

Date: February 4, 2025

Project: Woodward Resource Center
WRC Birches Window Replacement
DAS RFP 946300-01

Questions from Pre-Proposal Meeting

Q1. Are you going to share the Asbestos Report?
A1. Yes, please see attached.

Q2. Can insulated windows be used?
A2. As long as it meets the SHPO requirements.

Q3. Is sill replacement or repair included in the scope?
A3. Yes, evaluation of the sills should be included, as well as any necessary repairs or replacement due to their existing condition.

Q4. Will construction be shut down during the winter months?
A4. That is up to the designer and contractor; DAS wants a quality installation but is not dictating a winter shutdown. We expect construction to last approximately 32 weeks in total.

Q5. Will the existing storm windows need to remain after the windows are replaced?
A5. This will be discussed during design.

Q6. Will ceilings need to be replaced?
A6. If the current ceiling interferes with construction the ceiling will need to be removed and replaced.

Q7. Will additional windows be infilled?
A7. This will be discussed during design.

Q8. Would you please share the overall budget and construction budget for this project?
A8. The project budget is $1,500,000 and the construction budget is $1,100,000.

Q9. Will the replacement windows need to be operable?
A9. This will depend on SHPO's recommendations.

Q10. Will an MEP team be needed to design for accommodation of existing MEP elements in window openings (conduits, exhaust fans window a/c units, etc)?

A10. It is expected that all existing items in windows will need to remain and be accommodated for the replacement windows.

Q11. Will the building be occupied during construction?
A11. Yes, but occupants can move within the building during construction.

Q12. Will window shade replacement be needed?
A12. Window shades will not be included with the design.

Q13. Who will remove the furniture and other items blocking the windows?
A13. This will be done by the facility staff but will be discussed during design.

Q14. Will SHPO be reviewing the drawings?
A14. Not at this time, please see guidance from SHPO in the clarifications.

Q15. Will there be bi-weekly construction meetings during the entire period?
A15. Meetings will only occur when there is active work on site. The active construction period is expected to last 32 weeks, but may extend over a period of 10 months if work is stopped over the winter.

Q16. Is the Birches building sprinklered?
A16. No.

Q17. Is it possible to remove a window during design for investigation of the lintel?
A17. Yes, but it would require abatement so we would prefer to avoid it if possible.

Q18. Is tuckpointing included in the scope?
A18. No.

Q19. Are existing openings that are infilled with masonry included in the scope?
A19. No.

Q20. Are existing openings that are infilled with wood, plastic or new double-hung windows included in the scope?
A20. They should be included in the evaluation and maybe alternates, depending on the project budget.

Q21. Are the interior windows included in the scope?
A21. No.

Q22. Will the radiators below the windows remain after the building is decentralized?
A22. Some will remain, some will be abandoned in place. They are not part of the window replacement scope.

Q23. Is DAS willing to consider an option to just clean up the existing window frames and reglaze?
A23. We believe the window frames are beyond repair and this is not an option.

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Clarifications

SHPO Comments:

R&C 241208974 - 00054974 - DAS - Boone - HHS WRC Birches Window Replacement - We are planning to replace the windows at the Birches building at the Woodward Resource Center. Birches was built in 1941 and houses the maintenance offices and shops. We believe the windows are original to the building. The windows have deteriorated to the point where panes are regularly breaking and many won't properly close or stay closed. Several windows have already been infilled at some point and a few have been replaced. The facility also added storm windows inside the building. The window caulking and glazing contain asbestos and the windows and lintels have lead-based paint, so maintaining/repairing them is costly.

- SHPOs first recommendation would be to repair the windows. However, recognizing the amount of deterioration and cost, our next recommendation would be an in-kind replacement (clear glass, same lite pattern, similar muntin profile, etc.).
- Based on the photos provided, these appear to be metal windows, with multiple lites, and the center portion is operable.
- With replacement necessary, we would recommend the same lite pattern for the replacements. Single/double hung windows would not meet the Secretary of the Interior's Standards for Rehabilitation and are thus not recommended.
- Infill with an alternate material is feasible where necessary.

RFP Comments:

- Please provide proposed dates for the 100% design development, 50% construction documents and 95% document review meetings in your proposal.
- Three additional windows will be infilled by the decentralization project, with construction likely occurring in 2025 or 2026.

Attachments

1. Sign-In Sheet for pre-proposal meeting on 1/29/2025.
2. Birches Hazardous Building Materials Survey dated 12/16/2024.

END OF ADDENDUM

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WRC Birches Window Replacement
Pre-Proposal Meeting

January 29, 2025

STORY CONSTRUCTION

Sign-in Sheet

Name	Company	Email Address	Telephone
Sam Vorrie	Story Construction Co.	sam.vorrie@storycon.com	515-291-4483
Mike Chambers	Story Construction Co.	mike.chambers@storycon.com	515-291-5730
Jennifer Kleene	DAS	jennifer.kleene@iowa.gov	515-725-0454
Mindy Aust	MA Architecture	mindy@architectureMA.com	5154734834
Edward Matt	GENESIS DESIGN	ematt@gendsn.com	515-238-2146
Cami Manley	Shive Hattery	cmanley@shive-hattery.com	515-333-4878
KURT HAGGE	FARNSWORTH GROUP	khagge@f-w.com	515-229-3018
~~[illegible]~~ Oliver Shimp	DAS	Oliver.Shimp@iowa.gov	515-675-4741
Jason Cooper	FEH Design	jasonc@fehdesign.com	515-288-2000
Rodney Carr	WRC	rodney.carr@hhs.iowa.gov	314-6843
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Virtual -Dan Strain	KPE-Inc	Dstrain@kpe-inc.com	

HAZARDOUS BUILDING MATERIALS SURVEY

PREPARED FOR:

Iowa Department of Administrative Services
109 SE 13th Street
Des Moines, Iowa 50319

PROJECT LOCATION:

Woodward Resource Center - Phase 4 Decentralization Project #9279
Birches Building
1251 334th Street
Woodward, Iowa

Project Date: September 25 and November 20, 2024

Report Date: December 16, 2024

Atlas Project ID: 204BS07475

PREPARED BY:

Atlas Technical Consultants LLC
4503 East 50th Street, Suite 800
Des Moines, IA 50317

December 16, 2024

Ms. Jennifer Kleene
Iowa Department of Administrative Services
109 SE 13th Street
Des Moines, IA 50319

Re: Hazardous Building Materials Survey Report – Birches Building
Woodward Resource Center – Phase 4 Decentralization Project #9279
1251 334th Street
Woodward, Iowa
Atlas Project Number: 204BS07475

Atlas is pleased to submit the attached Hazardous Building Materials Survey Report for the above-referenced site. This report includes procedures, methodologies and analytical laboratory results.

Atlas appreciates the opportunity to perform these services for the Iowa Department of Administrative Services (IDAS), and we look forward to working with you in the future. If you need any assistance with the implementation of the recommendations contained in this report, please feel free to give us a call at (515) 981-4528 and we will respond promptly to your needs.

Sincerely,

ATLAS TECHNICAL CONSULTANTS LLC

Eric Brown
Iowa Inspector
(515) 981-4528

Steve Hudson, MS, CIH
Senior Project Manager
(402) 670-3842

T A B L E O F C O N T E N T S

APPENDICES

H A Z A R D O U S B U I L D I N G M A T E R I A L S S U R V E Y R E P O R T

Woodward Resource Center – Birches Building
Phase 4 Decentralization Project #9279
1251 334th Street
Woodward, Iowa
Atlas Project Number: 204BS07475

1.0 SCOPE OF SERVICES

The purpose of this project was to perform a survey to identify hazardous building materials at the above-referenced property.

Atlas provided a representative asbestos survey in accordance with the referenced agreement and as outlined below:

1. Review any existing hazardous building material survey reports relating to the site, if available.
2. Identify suspect asbestos-containing materials (ACM), surface coatings potentially containing lead paint, and hazardous building materials throughout the interior and exterior of the building, not including the roof.
3. Collect and analyze bulk samples of suspect asbestos containing materials and collect paint chip samples from representative surface coatings potentially containing lead-based or lead-containing paint.
4. Provide laboratory analysis of collected samples.
5. Provide a report of findings with copies and interpretation of analytical results and identifying the locations of asbestos-containing materials, lead paint, and hazardous building materials.

2.0 GENERAL SITE CONDITIONS

The survey was conducted at the Woodward Resource Center – Birches Building located at 1251 334th Street in Woodward, Iowa. The survey was limited to accessible surfaces on the interior and exterior of the building, not including the roof.

3.0 ASBESTOS SURVEY

On September 25 and November 20, 2024, the Birches Building was inspected for ACMs by inspector Eric Brown of Atlas. Mr. Brown has completed the requisite training for asbestos accreditation as inspectors at a state approved training provider under TSCA Title II. Mr. Brown's State of Iowa Inspector number is 24-11418.

Accessible areas were visually inspected for the presence of suspect ACMs. Materials that were hidden, not accessible, or when sampled would damage the integrity of the structure, were not sampled as part of this survey. Materials visibly identified as non-asbestos (fibrous glass, foam

rubber, wood, etc.) were not sampled. The asbestos survey consisted of three basic steps: **1)** a visual inspection of the proposed work areas; **2)** a determination of homogeneous areas with suspect surfacing, thermal system insulation, and miscellaneous materials; and **3)** sampling accessible, friable and non-friable, suspect materials.

3.1 Regulation Review

The United States Environmental Protection Agency (USEPA) qualifies ACM as materials with an asbestos content greater than 1%. The following definitions are taken from Section 61.141 of Subpart M, Part 61 of Title 40: Protection of Environment of the Code of Federal Regulations (CFR).

- "Category I non-friable ACM" is defined as asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined using the method specified in appendix E, subpart E, 40 CFR part 763, section 1, Polarized Light Microscopy (PLM).

- "Category II non-friable ACM" is defined as any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that, when dry, ***cannot*** be crumbled, pulverized, or reduced to powder by hand pressure.

- "Friable asbestos material" is defined as any material containing more than 1% asbestos as determined using the methods specified in appendix E, subpart E, 40 CFR part 763, section 1, PLM that when dry, ***can*** be crumbled, pulverized, or reduced to powder by hand pressure. If the asbestos content is less than 10% as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

3.2 Homogeneous Areas

Prior to sampling, homogeneous areas were identified in order to facilitate a sampling strategy. A homogeneous sampling area can be described as one or more areas with suspect material similar in appearance and texture that have the same installation date and function. The actual number of samples collected from each homogeneous sampling area may vary, dependent upon material type and the professional judgment of the inspector.

3.3 Sampling Strategy

The sampling strategy incorporated Asbestos Hazard Emergency Response Acts (AHERA) requirements, quantities of suspect material, and the inspector's judgment to aid in the identification of suspect asbestos-containing materials. If the analytical results indicated that all the samples collected per homogeneous area did not contain asbestos, then the homogeneous area (material) was considered non-asbestos-containing. However, if the analytical results of one or more of the samples collected per homogeneous area indicated that asbestos was present in quantities greater than one percent asbestos (as defined by EPA), all of the homogeneous area (material) was treated as an asbestos-containing material regardless of any other analytical results. Materials which were visually determined to be non-asbestos (i.e. fibrous glass, foam rubber, etc.) by the accredited inspector were not required to be sampled. Actual collection of a bulk asbestos sample involves

physically removing approximately one square inch (1 in^2) of material and placing it in an airtight sample container. Sample containers were marked with a unique identification number, which was documented in the field notes.

3.4 Laboratory Analytical Results

A total of **52** samples were collected from building materials suspected of containing asbestos. The samples were submitted under chain of custody to EMSL Analytical, Inc. (EMSL) located at 200 Route 130 North in Cinnaminson, New Jersey, for analysis by polarized light microscopy (PLM) with dispersion staining techniques per the *USEPA Method for the Determination of Asbestos in Bulk Building Materials (600/R-93-116)*. The percentage of asbestos, if applicable, was established by microscopic visual estimation. EMSL is an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) No. 101048-0. Any material that contains greater than one percent (>1%) asbestos is considered an ACM and must be handled according to Occupational Safety and Health Administration (OSHA), USEPA, and all applicable state and local regulations.

Laboratory test results are provided in Appendix A.

3.5 Suspect Asbestos-Containing Materials

The following table contains a list of suspect asbestos containing materials sampled:

TABLE 1: SUSPECT ASBESTOS MATERIALS

Material	Location	Sample Number
Plaster & Skim Coat	Room 305	B-1
Plaster & Skim Coat	Room 300	B-2
Plaster & Skim Coat	Room 304	B-3
Terrazzo Flooring	Room 303	B-4
Popcorn Ceiling Texture	Room 305	B-5
TSI Pipe Insulation	Room 305	B-6
Fiberglass Insulation	Room 305	B-7
Terrazzo Flooring	Room 215	B-8
Popcorn Ceiling Texture	Room 217	B-9
Cove Base	Room 217	B-10
Cove Base Mastic Brown	Room 217	B-11
White Window Sill/Trim Caulk	Room 217A	B-12
Drywall Mud	Room 217A	B-13
Drywall Tape	Room 217A	B-14
Drywall	Room 217A	B-15
Brick Mortar	Room 216	B-16
2’ x 2’ Ceiling Tile	Room 213B	B-17
Drywall	Room 213B	B-18
Drywall Mud	Room 213B	B-19
Popcorn Ceiling Texture	Room 213B	B-20
Wall Texture	Room 213B	B-21
Cove Base Black	Room 213B	B-22

TABLE 1: SUSPECT ASBESTOS MATERIALS		
Material	**Location**	**Sample Number**
Cove Base Mastic Tan	Room 213B	B-23
Cove Base Beige	Room 213A	B-24
Cove Base Mastic Tan	Room 213A	B-25
Cove Base White	Room 213G	B-26
Cove Base Mastic Tan	Room 213G	B-27
HVAC Sealant	Room 210	B-28
Plaster & Skim Coat	Room 231	B-29
TSI Pipe Insulation	Room 212	B-30
Drywall Mud	Room 222A	B-31
Popcorn Ceiling Texture	Room 201	B-32
Drywall Mud	Room 222A	B-33
Window Glazing	Room 201A	B-34
Terrazzo Flooring	Room 206A	B-35
Plaster & Skim Coat	Room 208	B-36
Plaster & Skim Coat	Room 119	B-37
Terrazzo Flooring	Room 119	B-38
Brick Mortar	Room 119	B-39
CMU Mortar	Room 124	B-40
Plaster & Skim Coat	Room 124B	B-41
Plaster & Skim Coat	Room 108A	B-42
Particle Board	Room 105	B-43
Plaster & Skim Coat	Room B17	B-44
TSI Pipe Sealant	Room B12	B-45
Plaster & Skim Coat	Room B29	B-46
Drywall	Room B29	B-47
Plaster & Skim Coat	Room B01	B-48
Terrazzo Flooring	Room B01	B-49
Caulk White	Room B01	B-50
Window Glazing	Exterior NE Window	B-51
Caulk Gray	Exterior NE Window	B-52

The following table is a summary of the suspect asbestos-containing materials that have been determined, through laboratory analysis, to contain asbestos:

TABLE 2: ASBESTOS-CONTAINING MATERIALS				
Sample Number	**Material**	**Location**	**Approx. Quantity**	**Asbestos Content**
B-6	TSI Pipe Insulation	Room 305 (may be insulated within wall from 2nd to ground floor)	2 LF	45% Chrysotile
B-12	White Window Sill Caulk	Room 217A	60 LF	6% Chrysotile

TABLE 2: ASBESTOS-CONTAINING MATERIALS				
Sample Number	**Material**	**Location**	**Approx. Quantity**	**Asbestos Content**
B-51	Window Glazing	Exterior, Windows	195 Windows	5% Chrysotile
B-52	Window Caulk (gray)	Exterior, Windows	195 Windows	10% Chrysotile
SF = Square Feet, LF = Linear Feet				

4.0 LEAD PAINT CHIP TESTING

Atlas collected paint chip samples from representative surface coatings that may be impacted by renovation activities.

Surface coatings that were collected were considered to be representative of materials in a homogeneous area if:

1. They exhibited similar physical characteristics (suspect materials alike in appearance, substrate, color, and time of application were tested as homogenous areas)
2. The application of the tested surface could be associated to an application of an unsampled surface.

Atlas collected and submitted a total of **14** paint chip samples from surface coatings. The samples were submitted to EMSL of Cinnaminson, New Jersey, under proper chain of custody for analysis by Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B). EMSL is accredited under the American Industrial Hygiene Association-Laboratory Accreditation Program (AIHA-LAP, LLC) (AIHA-LAP; lab code 100194). A copy of the analytical results and chain of custody can be found in Appendix B.

The USEPA has defined LBP as *"paint or other surface coatings that contain lead in excess of 0.5 percent by weight (>0.5%)".* Results less than 0.5% by weight indicate that lead is not present at or above the USEPA regulatory level; however, lead may be present in lower concentrations above the laboratory detection limit in other surfaces tested and these are classified as lead-containing paint (LCP). Negative results do not mean that lead is not present.

4.1 Inspection

The disturbance and disposal of materials with surface coatings that contain lead paint are regulated by the USEPA, OSHA and the State of Iowa. The Resource Conservation and Recovery Act (RCRA) provides the USEPA with the authority to regulate the waste status of renovation debris, including lead-containing materials. Specific notification and testing requirements must be addressed prior to transporting, treating, storing, or disposing of hazardous wastes.

Construction work covered by 29 CFR 1926.62 includes any repair, renovation or other activities that disturb in-place, lead-containing materials, but does not include routine cleaning and

repainting where there is insignificant damage, wear or corrosion of existing lead-containing coatings or substrates. Unless adequately protected, employee exposures to lead must not exceed airborne concentrations >50 micrograms per cubic meter ($\mu g/m^3$) averaged over an 8-hour period.

Occupational exposure to lead occurring in the course of construction work, including maintenance activities, painting, alteration and repairs is subject to the OSHA Lead standard (29 CFR 1926.62). The lead standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon the method of removal and other workplace conditions.

The disposal of lead-based paint waste, as well as paint waste containing other heavy metals, is regulated by the USEPA and State of Iowa. Wastes generated by industrial businesses, commercial businesses, and government institutions are subject to regulation. Commercial business owners and removal contractors are required to determine if paint waste generated from nonresidential structures (such as public and commercial buildings, warehouses, bridges, water towers, and transmission towers) contains heavy metals that would cause the debris to be considered a hazardous waste. Disposal options and applicable management requirements for collected debris will be based upon whether the waste stream is considered a hazardous waste and the amount of debris generated. Removal contractors and building owners need to include these factors when preparing and responding to bid specifications. Specific notification and testing requirements must be addressed prior to transporting, treating, storing, or disposing of hazardous wastes. Lead-containing wastes are considered hazardous waste under RCRA if Toxicity Characteristic Leachate Procedure (TCLP) results exceed 5 milligrams per liter (mg/L). The USEPA has made exceptions for the handling and disposal of lead wastes generated from residential housing.

Specific notification and testing requirements must be addressed prior to transporting, treating, storing, or disposing of hazardous wastes. Lead-containing wastes are considered hazardous waste under RCRA if Toxicity Characteristic Leachate Procedure (TCLP) results exceed 5 milligrams per liter (mg/L). The USEPA has made exceptions for the handling and disposal of lead wastes generated from residential housing.

The above overview is not intended to be inclusive of all potentially pertinent regulatory information. The relevant USEPA, OSHA and State of Iowa regulations should be consulted prior to undertaking activities involving the demolition, renovation or maintenance of surface coatings that contain lead.

4.2 Lead Paint Testing

The following surface coatings were collected as part of the lead paint testing:

TABLE 3: LEAD PAINT SUMMARY

Sample Number	Sample Location	Representative Material	Paint Color	Lead Concentration (% by weight)
PCB-1	Room 301 Radiator	Metal	Teal	0.42

TABLE 3: LEAD PAINT SUMMARY				
Sample Number	Sample Location	Representative Material	Paint Color	Lead Concentration (% by weight)
PCB-2	Room 304 Radiator	Metal	Yellow	0.49
PCB-3	Room 300	Plaster	Yellow	0.14
PCB-4	Room 303	Plaster	Green	0.46
PCB-5	**Room 305**	**Plaster**	**Blue-Green**	**0.64**
PCB-6	Room 217	Plaster	Cream-Tan	0.013
PCB-7	Room 213D	Plaster	White	0.046
PCB-8	Room 216 Drain Pipe	Metal	White	0.26
PCB-9	Room 213E	Metal	White	<0.008
PCB-10	Room 201A	Plaster	Blue	<0.008
PCB-11	Room 115	Plaster	Lt Blue	0.26
PCB-12	Room 117	Plaster	Yellow	0.29
PCB-13	Room 112	Plaster	Lt Purple	0.043
PCB-14	Room 108 Door Frame	Metal	Silver	0.026
PCB-15	**Exterior, Window Lintels and Mullions**	**Metal**	**White**	**10**

bolded = lead-based paint

This evaluation report can help the Owner develop a plan for renovating the building by having concentrations of lead in the paint identified. It is our understanding that the information in this report will be provided to the contractors so that appropriate precautions can be made to minimize worker exposure to lead. If surface coatings with lead containing paint are handled improperly, exposure could occur to workers and future occupants of the facility.

5.0 HAZARDOUS MATERIALS ASSESSMENT

Atlas completed a visual inspection of rooms / areas throughout the intended work areas in an attempt to identify hazardous wastes or universal wastes that may be impacted by planned renovation activities. The survey included a visual inspection of: light fixtures and other equipment for the presence of Polychlorinated Biphenyls (PCBs); light bulbs, thermostats, switches, and other equipment for the presence of mercury; refrigerants, batteries, and devices with potential radioactive materials.

TABLE4: HAZARDOUS BUILDING MATERIALS		
Category	Material	Estimated Quantity
Batteries	Lead Acid	NA

TABLE4: HAZARDOUS BUILDING MATERIALS		
Category	**Material**	**Estimated Quantity**
	Nickel Cadmium	16 (exit signs)
	Lithium-Ion	NA
Mercury	Thermostats	NA
	Fluorescent Light Tubes	336
	High Intensity Discharge Bulbs	NA
	Strobes	NA
Poly-Chlorinated Biphenyl (PCBs)	Light Ballasts	NA
	Transformers	NA
Low Level Radioactive Sources (LLR)	Tritium Exit Signs	NA
	Smoke Detectors	137
Chlorofluorocarbons (CFCs) or Hydro Chlorofluorocarbons (HCFCs)	Refrigerator/Cooler	NA
	Freezer	NA
	Water Fountain	NA

6.0 CONCLUSIONS

6.1 Asbestos

The NESHAP and OSHA regulations govern the removal of ACM. Atlas recommends that a State of Iowa certified abatement contractor be retained to properly abate and dispose of ACM identified in Table 1 above and in accordance with local, state, and federal regulations.

The owner and/or operator are responsible for NESHAP regulatory compliance regarding the proper removal, handling, and disposal of ACM containing >1% asbestos prior to renovation or demolition. Also, per state regulations, please be aware that the owner and/or operator must submit a notification to the Iowa Department of Natural Resources (IDNR) 10-buisness days prior to asbestos abatement at certain quantity thresholds and prior to renovation/demolition activities.

6.2 Lead

Lead was identified above the laboratory detection limit in 12 of the 15 surface coatings tested.

Contractors should use caution during construction-related activities as concealed surface coatings containing lead paints that were not previously tested may be encountered. If materials not sampled during this investigation are later identified to contain regulated quantities of lead concentrations, then they should be removed, controlled and/or disposed in accordance with

federal, state and local regulations, prior to disturbance. OSHA considers any detectable level of lead as LCP and disturbance of these surface coatings is subject to the training and work practices in OSHA 29 CFR 1926.62 “Lead in Construction”.

6.3 Hazardous Building Materials

Hazardous materials or universal wastes identified in Table 4 that will be impacted by renovation activities shall be removed as part of the renovation contractor’s scope of work and disposed of according to USEPA Toxic Substances Control Act (TSCA) and the State of Iowa regulations.

7.0 ASSUMPTIONS AND LIMITATIONS

The results, findings, conclusions, and recommendations expressed in this report are based solely on conditions noted during the September 25 and November 20, 2024, Atlas hazardous building materials survey of the Woodward Resource Center – Birches Building in Woodward, Iowa.

Atlas did not perform destructive sampling -- it was not within Atlas’s scope of work to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface -- thus, any materials that could not be visually identified on the surface were not inspected and would not be noted in this report. Atlas’s selection of sample locations and frequency of sampling was based on the inspector’s assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractor, and potential abatement contractor in locating hazardous building materials. Under no circumstances is the report to be utilized as a bidding document or as a project specification document since it does not have all the components required to serve as a Project Design document or an Abatement Work plan.

Our professional services have been performed, our findings obtained, and our conclusions and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated.

This report is intended for the sole use of IDAS. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

Atlas recommendations are based in part on federal, state, local regulations, and guidelines. Atlas does not undertake responsibility for reporting to any local, state, or federal public agencies of conditions at the site that may present a potential danger to public health or safety. Atlas recommends that the Client comply with regulations and response actions in accordance with federal, state, and local regulations.

APPENDIX A

ASBESTOS ANALYTICAL RESULTS AND CHAIN OF CUSTODY

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042420594
Customer ID:	ATC55
Customer PO:	
Project ID:	

Attention:	Eric Brown	**Phone:**	(402) 697-9747
	Atlas Technical	**Fax:**	(402) 597-8532
	11117 Mockingbird Drive	**Received Date:**	10/03/2024 11:40 AM
	Omaha, NE 68137	**Analysis Date:**	10/07/2024 - 10/08/2024
		Collected Date:	09/23/2024

Project: 204BS07475 / Birches / Tunnel Survey Woodward

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-1-Plaster *042420594-0001*	3rd Floor - Rm 305 - Plaster	Gray Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
B-1-Skim Coat *042420594-0001A*	3rd Floor - Rm 305 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-2-Plaster *042420594-0002*	3rd Floor - Rm 300 - Plaster	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-2-Skim Coat *042420594-0002A*	3rd Floor - Rm 300 - Skim Coat	White/Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-3-Plaster *042420594-0003*	3rd Floor - Rm 304 - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-3-Skim Coat *042420594-0003A*	3rd Floor - Rm 304 - Skim Coat	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-4 *042420594-0004*	3rd Floor - Rm 303 - Terrazzo Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-5 *042420594-0005*	3rd Floor - Rm 305 - Popcorn Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-6 *042420594-0006*	3rd Floor - Rm 305 - Pipe Insulation	White Fibrous Homogeneous		55% Non-fibrous (Other)	**45% Chrysotile**
B-7 *042420594-0007*	3rd Floor - Rm 305 - Fiberglass Insulation	Yellow/Orange Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
B-8 *042420594-0008*	2nd Floor - Rm 215 - Terrazzo Floor	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-9 *042420594-0009*	2nd Floor - Rm 217 - Popcorn Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-10 *042420594-0010*	2nd Floor - Rm 217 - Cove Base	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-11 *042420594-0011*	2nd Floor - Rm 217 - Brown Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-12 *042420594-0012*	2nd Floor - Rm 217A - White Caulk	Tan/White Non-Fibrous Homogeneous		94% Non-fibrous (Other)	**6% Chrysotile**
B-13 *042420594-0013*	2nd Floor - Rm 217A - Drywall Mud	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/08/2024 09:14:51

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042420594
Customer ID:	ATC55
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-14 *042420594-0014*	2nd Floor - Rm 217A - Drywall Tape	Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
B-15 *042420594-0015*	2nd Floor - Rm 217A - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (Other)	None Detected
B-16 *042420594-0016*	2nd Floor - Rm 216 - Brick Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-17 *042420594-0017*	2nd Floor - Rm 213B - 2x2 Ceiling Tile	Tan/White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	5% Perlite 15% Non-fibrous (Other)	None Detected
B-18 *042420594-0018*	2nd Floor - Rm 213B - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
B-19 *042420594-0019*	2nd Floor - Rm 213B - Drywall Mud	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-20 *042420594-0020*	2nd Floor - Rm 213B - Popcorn Ceiling	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-21 *042420594-0021*	2nd Floor - Rm 213B - Wall Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-22 *042420594-0022*	2nd Floor - Rm 213B - Black Cove Base	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-23 *042420594-0023*	2nd Floor - Rm 213B - Tan Cove Base Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-24 *042420594-0024*	2nd Floor - Rm 213A - Beige Cove Base	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-25 *042420594-0025*	2nd Floor - Rm 213A - Tan Cove Base Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-26 *042420594-0026*	2nd Floor - Rm 213G - White Cove Base	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-27 *042420594-0027*	2nd Floor - Rm 213G - Tan Cove Base Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-28 *042420594-0028*	2nd Floor - Rm 210 - HVAC Sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-29-Plaster *042420594-0029*	2nd Floor - Rm 231 - Plaster	Brown Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
B-29-Skim Coat *042420594-0029A*	2nd Floor - Rm 231 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-30-Insulation *042420594-0030*	2nd Floor - Rm 212 - Pipe Insulation	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
B-30-Sealant *042420594-0030A*	2nd Floor - Rm 212 - Sealant	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order:	042420594
Customer ID:	ATC55
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-31 *042420594-0031*	2nd Floor - Rm 22A - Drywall Mud	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-32 *042420594-0032*	2nd Floor - Rm 201 - Popcorn Ceiling	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-33 *042420594-0033*	2nd Floor - Rm 201A - Drywall Mud	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-34 *042420594-0034*	2nd Floor - Rm 201A - Window Glazing	Tan/White Non-Fibrous Homogeneous	6% Fibrous (Other)	94% Non-fibrous (Other)	None Detected
B-35 *042420594-0035*	2nd Floor - Rm 206A - Terrazzo Flooring	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-36-Plaster *042420594-0036*	2nd Floor - Rm 208 - Plaster	Gray Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
B-36-Skim Coat *042420594-0036A*	2nd Floor - Rm 208 - Skim Coat	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-37-Plaster *042420594-0037*	1st Floor - Rm 119 - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-37-Skim Coat *042420594-0037A*	1st Floor - Rm 119 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-38 *042420594-0038*	1st Floor - Rm 119 - Terrazzo Flooring	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-39 *042420594-0039*	1st Floor - Rm 119 - Brick Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-40 *042420594-0040*	1st Floor - Rm 124 - CMU Mortar	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-41-Plaster *042420594-0041*	1st Floor - Rm 124B - Plaster	Brown Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
B-41-Skim Coat *042420594-0041A*	1st Floor - Rm 124B - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-42-Plaster *042420594-0042*	1st Floor - Rm 108A - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-42-Skim Coat *042420594-0042A*	1st Floor - Rm 108A - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-43 *042420594-0043*	1st Floor - Rm 105 - Particle Board	Brown/Gray Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (Other)	None Detected
B-44-Plaster *042420594-0044*	Basement - B17 - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-44-Skim Coat *042420594-0044A*	Basement - B17 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order:	042420594
Customer ID:	ATC55
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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-45-Sealant *042420594-0045*	Basement - B12 - Pipe Sealant	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-45-Insulation *042420594-0045A*	Basement - B12 - Pipe Sealant	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
B-46-Plaster *042420594-0046*	Basement - B29 - Plaster	Brown/Gray Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
B-46-Skim Coat *042420594-0046A*	Basement - B29 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-47 *042420594-0047*	Basement - B29 - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
B-48-Plaster *042420594-0048*	Basement - B01 - Plaster	Brown Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
B-48-Skim Coat *042420594-0048A*	Basement - B01 - Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-49 *042420594-0049*	Basement - B01 - Terrazzo Flooring	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-50 *042420594-0050*	Basement - B01 - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-51 *042420594-0051*	Exterior - NE Window - Window Glazing	White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	**5% Chrysotile**
B-52 *042420594-0052*	Exterior - NE Window - Gray Caulk	Brown/Gray Fibrous Homogeneous		90% Non-fibrous (Other)	**10% Chrysotile**

Analyst(s)

Hunter Kelly (57)
Amy Schulze (8)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

Initial report from: 10/08/2024 09:14:51

OrderID: 042420594

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only: 042420594

EMSL Analytical, Inc.
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
EMAIL: c@emsl.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical	Company Name:	Atlas Technical
Contact Name:		Billing Contact:	Steve Hudson
Street Address:	11117 Mockingbird Drive	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha NE 6813	City, State, Zip:	Omaha NE 68137
Country:	US	Country:	US
Phone:	402-697-9747	Phone:	402-697-9747
Email(s) for Report:	eric.l.brown@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No: TUNNEL SURVEY WOODWARD 204BS07475
Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: IA
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name: ERIC BROWN
Sampled By Signature: Eric Brown
No. of Samples in Shipment: 52

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 4-4.5 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.

Test Selection

PCM Air
- ☐ NIOSH 7400
- ☐ NIOSH 7400 w/ 8hr. TWA

PLM - Bulk (reporting limit)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NYS 198.1 (Friable - NY)
- ☐ NYS 198.6 NOB (Non-Friable - NY)
- ☐ NYS 198.8 (Vermiculite SM-V)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312*

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (Non-Friable-NY)
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Test (please specify)

TEM - Settled Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Qualitative via Filtration Prep
- ☐ Qualitative via Drop Mount Prep

Soil - Rock - Vermiculite (reporting limit)*
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep

*Please call with your project-specific requirements.

☐ Positive Stop - Clearly Identified Homogeneous Areas (HA)
Filter Pore Size (Air Samples) ☐ 0.8um ☐ 0.45um

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
	See the other sheets		

RECEIVED EMSL CINNAMINSON, NJ 24 OCT -3 AM 11:41

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: Eric Brown	Date/Time: 10/3/24 (7:20	Received by:	Date/Time: 10/3 pm 11Hour
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-05 Asbestos R15 4/23/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

042420594

ASBESTOS BULK SAMPLE FORM

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747
Fax (402) 597-8532

Project Information

Client:	Project Description:	Project Manager: SH Inspector: EB
Date: 9/23/24	Site Location: Birches Woodland	ATLAS PROJECT NUMBER: 204BS07475

Sample #	Material Description	Floor	Sample Location	Quantity
B-1	Plaster + Skim coat	3rd	Rm 305	
B-2	Plaster + Skim coat	3rd	Rm 300	
B-3	Plaster + Skim coat	3rd	Rm 304	
B-4	terrazzo floor	3rd	Rm 303	
B-5	Popcorn ceiling	3rd	Rm - 305	
B-6	Pipe ~~insulation~~ insulation	3rd	Rm - 305	2LF
B-7	Fiberglass insulation	3rd	Rm - 305	
B-8	terrazzo floor	2nd	Rm - 215	
B-9	Popcorn Ceiling	2nd	Rm - 217	
B-10	Cove base	2nd	Rm - 217	
B-11	Brown mastic	2nd	Rm - 217	
B-12	White Caulk	2nd	Rm - 217A	
B-13	Drywall mud	2nd	Rm - 217A	

042420594

ASBESTOS BULK SAMPLE FORM

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747
Fax (402) 597-8532

Project Information

Client:	Project Description:	Project Manager: SH Inspector: EB
Date: 9/23/24	Site Location: Birchms Woodward	ATLAS PROJECT NUMBER: 2048507475

Sample #	Material Description	Floor	Sample Location	Quantity
B-14	Drywall tape	2nd	Rm 217A	
B-15	Drywall	2nd	Rm 217A	
B-16	~~[illegible]~~ Brick Mortor	2nd	Rm 216	
B-17	2x2 Ceilms tile	2nd	Rm-213B	
B-18	Drywall	2nd	Rm-213B	
B-19	Drywall mud	2nd	Rm-213B	
B-20	Popcorn Ceiling	2nd	Rm 213B	
B-21	Wall texture	2nd	Rm 213B	
B22	Cove Base-Black	2nd	Rm 213B	
B23	Cove Base Mastic-tan	2nd	Rm 213B	
B24	Cove Base - Beige	2nd	213A	
B25	Cove Base Mastic-tan	2nd	213A	
B26	Cove Base - White	2nd	213G	

RECEIVED EMSL CINNAMINSON, NJ 24 OCT -3 AM 11:47

CMM 20494

ASBESTOS BULK SAMPLE FORM

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747
Fax (402) 597-8532

Project Information

Client:	Project Description:	Project Manager: Inspector: EB
Date: 9/23/14	Site Location: Woodward Birches	ATLAS PROJECT NUMBER: 204B507475

Sample #	Material Description	Floor	Sample Location	Quantity
B27	Cove base mastic-tan	2nd	213G	
B28	HVAC Sealant	2nd	210	
B29	Plaster & Skim coat	2nd	231	
B30	Pipe insulation	2nd	212	
B31	Drywall mud	2nd	~~222A~~ 222A	
B32	Popcorn ceiling	2nd	201	
B33	Drywall mud	2nd	201A	
B34	Window Glazing	2nd	201A	
B35	terrazzo flooring	2nd	206A	
B36	Plaster & Skim coat	2nd	208	
B37	Plaster & Skim coat	1st	119	
B38	terrazzo floorings	1st	119	
B39	Brick Mortar	1st	119	

042420594

ASBESTOS BULK SAMPLE FORM

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747
Fax (402) 597-8532

Project Information

Client:	Project Description:	Project Manager: Inspector: EB
Date: 9/23/24	Site Location: Birches Woodward	ATLAS PROJECT NUMBER: 264B507475

Sample #	Material Description	Floor	Sample Location	Quantity
B40	CMU Mortar	1st	124	
B41	Plaster + Skim coat	1st	124B	
B42	Plaster + Skim Coat	1st	108A	
B43	Particle Board	1st	105	
B44	Plaster + Skim Coat	B	B17	
B45	Pipe - Sealant	B	B12	
B46	Plaster + Skim coat	B	B29	
B47	Drywall	B	B29	
B48	Plaster + Skimcoat	B	B01	
B49	Terrazzo floor	B	B07	
B50	White Caulk	B	B02	
B51	Window Glazing	E	NE window	
B52	Grey Caulk	E	NE Window	

APPENDIX B

LEAD PAINT ANALYTICAL RESULTS AND CHAIN OF CUSTODY

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012432420
LIMS Reference ID: AC32420
EMSL Customer ID: ATC55

Attention: Steve Hudson
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
steve.hudson@oneatlas.com

Project Name: Woodward Tunnel Survey 204BS07475
Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 10/03/2024 10:00
Reported: 10/04/2024 15:45

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: PCB-1/Room 301 Radiator - Metal - Teal									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-01**
Lead	0.42 % wt	0.037 % wt	0.2698	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B	D	5
Sample Comments:									
Client Sample ID: PCB-2/Room 304 Radiator - Metal - Yellow									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-02**
Lead	0.49 % wt	0.035 % wt	0.2879	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B	D	5
Sample Comments:									
Client Sample ID: PCB-3/Room 300 - Plaster - Yellow									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-03**
Lead	0.14 % wt	0.008 % wt	0.2555	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-4/Room 303 - Plaster - Green									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-04**
Lead	0.46 % wt	0.039 % wt	0.2537	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B	D	5
Sample Comments:									
Client Sample ID: PCB-5/Room 305 - Plaster - Blue-Green									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-05**
Lead	0.64 % wt	0.038 % wt	0.2611	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B	D	5
Sample Comments:									
Client Sample ID: PCB-6/Room 217 - Plaster - Cream/Tan									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-06**
Lead	0.013 % wt	0.008 % wt	0.2933	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-7/Room 213D - Plaster - White									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-07**
Lead	0.046 % wt	0.008 % wt	0.2699	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-8/Room 216 Drain Pipe - Metal - White									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-08**
Lead	0.26 % wt	0.008 % wt	0.2734	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-9/Room 213E - Metal - White									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-09**
Lead	<0.008 % wt	0.008 % wt	0.253	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									

EMSL Analytical, Inc.

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Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012432420
LIMS Reference ID: AC32420
EMSL Customer ID: ATC55

Attention: Steve Hudson
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
steve.hudson@oneatlas.com

Project Name: Woodward Tunnel Survey 204BS07475
Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 10/03/2024 10:00
Reported: 10/04/2024 15:45

Analytical Results (Continued)

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: PCB-10/Room 201A - Plaster - Blue									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-10**
Lead	<0.008 % wt	0.008 % wt	0.2587	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-11/Room 115 - Plaster - Lt. Blue									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-11**
Lead	0.26 % wt	0.012 % wt	0.1655	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-12/Room 117 - Plaster - Yellow									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-12**
Lead	0.29 % wt	0.008 % wt	0.2747	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-13/Room 112 - Plaster - Lt. Purple									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-13**
Lead	0.043 % wt	0.008 % wt	0.2743	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									
Client Sample ID: PCB-14/Room 108 Door Frame - Metal - Silver									**Date Sampled: 09/23/24**
Matrix: Chips									**LIMS Reference ID: AC32420-14**
Lead	0.026 % wt	0.008 % wt	0.2659	10/04/24 KD1	SW-846 3050B	10/04/24 PMX	SW846-7000B		1
Sample Comments:									

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012432420
LIMS Reference ID: AC32420
EMSL Customer ID: ATC55

Attention: Steve Hudson
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
steve.hudson@oneatlas.com

Project Name: Woodward Tunnel Survey 204BS07475
Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 10/03/2024 10:00
Reported: 10/04/2024 15:45

Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

Code	Description	Number	Expires
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2025
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NYSDOH	New York State Department of Health	10872	04/01/2025
California ELAP	California Water Boards	1877	06/30/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2026
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2025
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
D	Analyte was reported from a dilution run.
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RL	Reporting Limit For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams. For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams. For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL Analytical, Inc.

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EMSL Order ID: 012432420
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Omaha, NE 68137
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Project Name: Woodward Tunnel Survey 204BS07475

Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 10/03/2024 10:00
Reported: 10/04/2024 15:45

Owen McKenna Laboratory Manager or other approved signatory

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.008% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.

EMSL ANALYTICAL, INC.
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Lead Chain of Custody

EMSL Order Number / Lab Use Only

AC32420

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical	Company Name:	Atlas Technical
Contact Name:	Steve Hudson	Billing Contact:	Steve Hudson
Street Address:	11117 Mockingbird Drive	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha, NE, 68137	City, State, Zip:	Omaha, NE, 68137
Country:	USA	Country:	USA
Phone:	402-697-9747	Phone:	402-697-9747
Email(s) for Report:	steve.hudson@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No:	WOODWARD TUNNEL SURVEY 204B507475	Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	IA
State of Connecticut (CT) must select project location:	☐ Commercial (Taxable) ☐ Residential (Non-Taxable)		
Sampled By Name:	ERIC BROWN	Sampled By Signature:	Eric Brown
No. of Samples in Shipment	14		

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☒ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☒
	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082 *	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7303M	ICP-OES	1.0µg/filter	☐
	NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM *If no box is checked, non-ASTM Wipe is assumed	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
	SEE OTHER SHEETS		

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: Eric Brown	Date/Time: 10/3/24 17:00	Received by: RJA EFX	Date/Time: 10/3/24 10AM
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-25 Lead R18 04/04/2024

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

14 RJA

AC32420

PAINT CHIP SAMPLE LOG SHEET

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747

Project Information

Client:	Project Description: BIRCHES	Project Manager: SH Inspector: LEB
Date: 9/23/24	Site Location: WOODWARD	ATLAS PROJECT NUMBER: 204BS07475

Sample #	Paint Color	Substrate	Sample Location	Quantity
PCB-1	TEAL	METAL	ROOM 301 RADIATOR	
PCB-2	YELLOW	METAL	ROOM 304 RADIATOR	
PCB-3	YELLOW	PLASTER	ROOM 300	
PCB-4	GREEN	PLASTER	ROOM 303	
PCB-5	BLUE-GREEN	PLASTER	ROOM 305	
PCB-6	CREAM/TAN	PLASTER	ROOM 217	
PCB-7	WHITE	PLASTER	ROOM 213D	
PCB-8	WHITE	METAL	ROOM 216 DRAIN PIPE	
PCB-9	TAN	PLASTER	ROOM 213E	
PCB-10	BLUE	PLASTER	ROOM 201A	

AC32420

PAINT CHIP SAMPLE LOG SHEET

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747

Project Information

Client:	Project Description: BIRCHES	Project Manager: SH Inspector: EB
Date: 9/23/24	Site Location: WOODWARD	ATLAS PROJECT NUMBER: 204BS07775

Sample #	Paint Color	Substrate	Sample Location	Quantity
PCB-11	Lt. BLUE	PLASTER	ROOM 115	
PCB-12	YELLOW	PLASTER	ROOM 117	
PCB-13	Lt. PURPLE	PLASTER	ROOM 112	
PCB-14	SILVER	METAL	ROOM 108 DOOR FRAME	

EMSL ANALYTICAL, INC.
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Lead Chain of Custody

EMSL Order Number / Lab Use Only

AC32420

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical	Company Name:	Atlas Technical
Contact Name:	Steve Hudson	Billing Contact:	Steve Hudson
Street Address:	11117 Mockingbird Drive	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha, NE, 68137	City, State, Zip:	Omaha, NE, 68137
Country:	USA	Country:	USA
Phone:	402-697-9747	Phone:	402-697-9747
Email(s) for Report:	steve.hudson@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No:	WOODWARD TUNNEL SURVEY 204B507475	Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	IA
State of Connecticut (CT) must select project location:	☐ Commercial (Taxable) ☐ Residential (Non-Taxable)		
Sampled By Name:	ERIC BROWN	Sampled By Signature:	Eric Brown
No. of Samples in Shipment	14		

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☒ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☒
	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082 *	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7303M	ICP-OES	1.0µg/filter	☐
	NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM *If no box is checked, non-ASTM Wipe is assumed	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO3 ☐ PH<2	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO3 ☐ PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
	SEE OTHER SHEETS		

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: Eric Brown	Date/Time: 10/3/24 17:00	Received by: RSA EFX	Date/Time: 10/3/24 10AM
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-25 Lead R18 04/04/2024

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

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(14) RSA

AC32420

PAINT CHIP SAMPLE LOG SHEET

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747

Project Information

Client:	Project Description: BIRCHES	Project Manager: SH Inspector: EB
Date: 9/23/24	Site Location: WOODWARD	ATLAS PROJECT NUMBER: 204BS07475

Sample #	Paint Color	Substrate	Sample Location	Quantity
PCB-1	TEAL	METAL	ROOM 301 RADIATOR	
PCB-2	YELLOW	METAL	ROOM 304 RADIATOR	
PCB-3	YELLOW	PLASTER	ROOM 300	
PCB-4	GREEN	PLASTER	ROOM 303	
PCB-5	BLUE-GREEN	PLASTER	ROOM 305	
PCB-6	CREAM/TAN	PLASTER	ROOM 217	
PCB-7	WHITE	PLASTER	ROOM 213D	
PCB-8	WHITE	METAL	ROOM 216 DRAIN PIPE	
PCB-9	TAN	PLASTER	ROOM 213E	
PCB-10	BLUE	PLASTER	ROOM 201A	

AC32420

PAINT CHIP SAMPLE LOG SHEET

ATLAS
11117 Mockingbird Drive
Omaha, NE 68137
Phone (402) 697-9747

Project Information

Client:	Project Description: BIRCHES	Project Manager: SH Inspector: EB
Date: 9/23/24	Site Location: WOODWARD	ATLAS PROJECT NUMBER: 204BS07775

Sample #	Paint Color	Substrate	Sample Location	Quantity
PCB-11	Lt. BLUE	PLASTER	ROOM 115	
PCB-12	YELLOW	PLASTER	ROOM 117	
PCB-13	Lt. PURPLE	PLASTER	ROOM 112	
PCB-14	SILVER	METAL	ROOM 108 POOL FRAME	

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012438017
LIMS Reference ID: AC38017
EMSL Customer ID: ATC55

Attention: Steve Hudson
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
steve.hudson@oneatlas.com

Project Name: Woodward Tunnels // 204BS07475
Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 11/22/2024 10:00
Reported: 11/27/2024 11:00

Analytical Results

Analyte	Results	RL	Weight(g)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: PCB - 15/Window Lintel and Mullions White									**Date Sampled: 11/20/24**
Matrix: Chips									**LIMS Reference ID: AC38017-01**
Lead	10 % wt	0.78 % wt	0.2571	11/25/24 KD1	SW-846 3050B	11/26/24 PMX	SW846-7000B	D	100
Sample Comments:									

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012438017
LIMS Reference ID: AC38017
EMSL Customer ID: ATC55

Attention: Steve Hudson
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
steve.hudson@oneatlas.com

Project Name: Woodward Tunnels // 204BS07475
Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 11/22/2024 10:00
Reported: 11/27/2024 11:00

Certified Analyses included in this Report

Analyte	Certifications
SW846-7000B in Chips	
Lead	AIHA LAP

List of Certifications

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A2LA	A2LA Environmental Certificate	2845.01	07/31/2026
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2025
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2025
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2026

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Notes and Definitions

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(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
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Q	Qualifier
RL	Reporting Limit For paint chips, the RL is 0.008% by wt. (equiv. to 80 mg/kg, or ppm) based upon a minimum sample weight of 0.25 grams. For soils, the RL is 40 mg/kg (ppm) based upon a minimum sample weight of 0.5 grams. For dust wipes, the RL is 10 µg/wipe; reporting units of µg/sq. ft. are not validated by the lab based upon data provided by non-lab personnel.
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012438017
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Attention: Steve Hudson
Atlas Technical [ATC55]
11117 Mockingbird Drive
Omaha, NE 68137
(402) 697-9747
steve.hudson@oneatlas.com

Project Name: Woodward Tunnels // 204BS07475

Customer PO:
EMSL Sales Rep: Anthony DeRosa
Received: 11/22/2024 10:00
Reported: 11/27/2024 11:00

Owen McKenna Laboratory Manager or other approved signatory

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EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

AC 38017

RECEIVED EMSL CINNAMINSON, N.J. 2024 NOV 22 P 12:12

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical	Company Name:	Atlas Technical
Contact Name:	Steve Hudson	Billing Contact:	Steve Hudson
Street Address:	11117 Mockingbird Drive	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha, NE, 68137	City, State, Zip:	Omaha, NE, 68137
Country:	USA	Country:	USA
Phone:	402-697-9747	Phone:	402-697-9747
Email(s) for Report:	steve.hudson@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No:	WOOD WARD TUNNELS 204 BS 07475	Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	IA
State of Connecticut (CT) must select project location:	☐ Commercial (Taxable) ☐ Residential (Non-Taxable)		
Sampled By Name:	ERIC BROWN	Sampled By Signature:	Eric Brown
No. of Samples in Shipment	1		

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☒ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☒
	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7303M	ICP-OES	1.0µg/filter	☐
	NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM *If no box is checked, non-ASTM Wipe is assumed	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO3 ☐ PH<2	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO3 ☐ PH<2	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
PCB-15	WINDOW LINTEL AND MULLIONS WHITE		11/20/24

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: Eric Brown	Date/Time: 11/21/24 17:00	Received by: EFX	Date/Time: 11-22-24 10am
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-25 Lead R18 04/04/2024

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

JD

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

AC 38017

RECEIVED EMSL CINNAMINSON, N.J. 2024 NOV 22 P 12:12

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Atlas Technical	Company Name:	Atlas Technical
Contact Name:	Steve Hudson	Billing Contact:	Steve Hudson
Street Address:	11117 Mockingbird Drive	Street Address:	11117 Mockingbird Drive
City, State, Zip:	Omaha, NE, 68137	City, State, Zip:	Omaha, NE, 68137
Country:	USA	Country:	USA
Phone:	402-697-9747	Phone:	402-697-9747
Email(s) for Report:	steve.hudson@oneatlas.com	Email(s) for Invoice:	

Project Information

Project Name/No:	WOOD WARD TUNNELS 20435 07475	Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	IA
State of Connecticut (CT) must select project location:	☐ Commercial (Taxable) ☐ Residential (Non-Taxable)		
Sampled By Name:	ERIC BROWN	Sampled By Signature:	Eric Brown
No. of Samples in Shipment	1		

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☒ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☒
	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7303M	ICP-OES	1.0µg/filter	☐
	NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM *If no box is checked, non-ASTM Wipe is assumed	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
PCB-15	WINDOW LINTEL AND MULLIONS WHITE		11/20/24

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: Eric Brown	Date/Time: 11/21/24 17:00	Received by: EFX	Date/Time 11-22-24 10am
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-25 Lead R18 04/04/2024

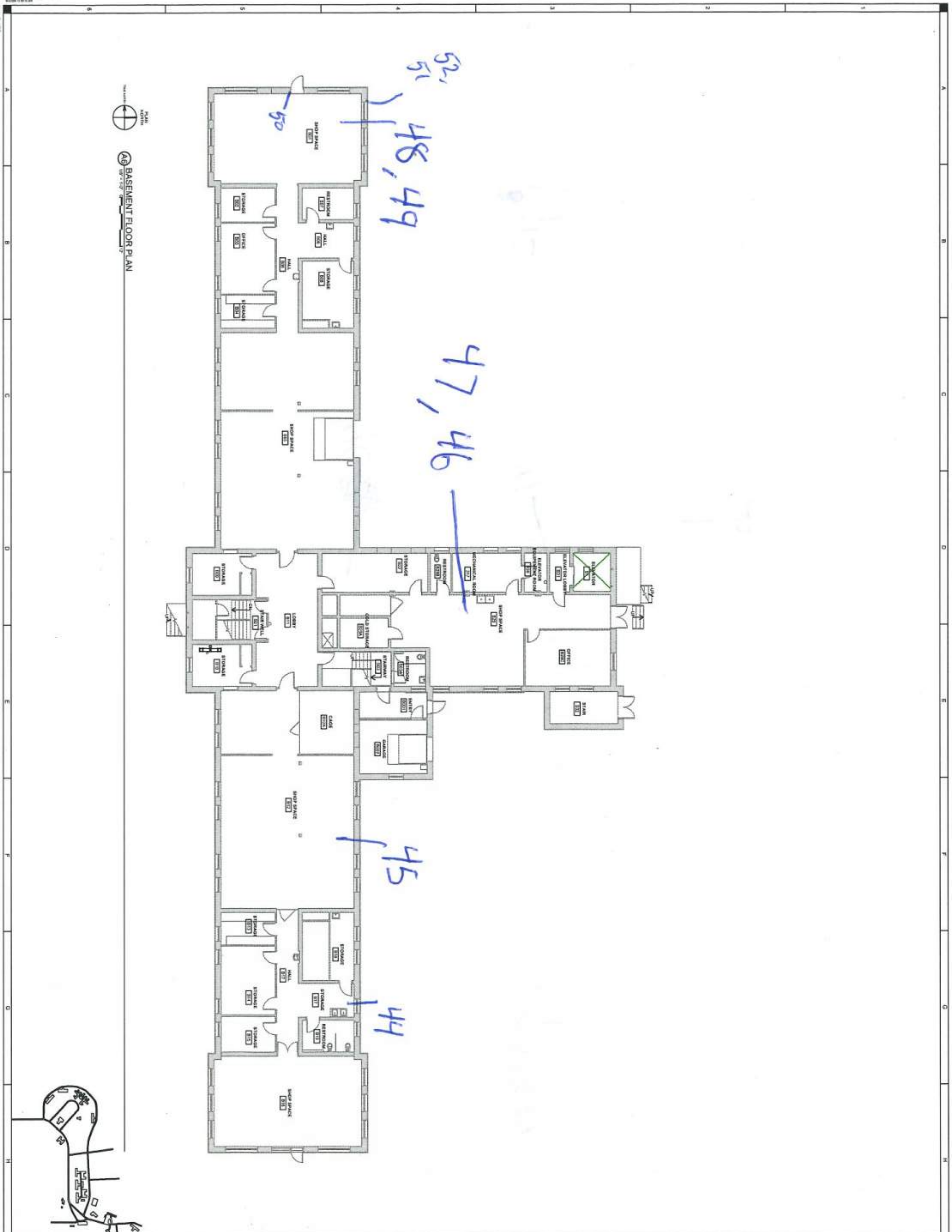
*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

1 JD

APPENDIX C

DRAWINGS WITH SAMPLE LOCATIONS



DRAWN BY	EP
APPROVED BY	Approver
ISSUED FOR	SITE VERIFICATIONS
ISSUE DATE	9/9/2024
PROJECT NUMBER	2240031040
FIELD BOOK	

A100

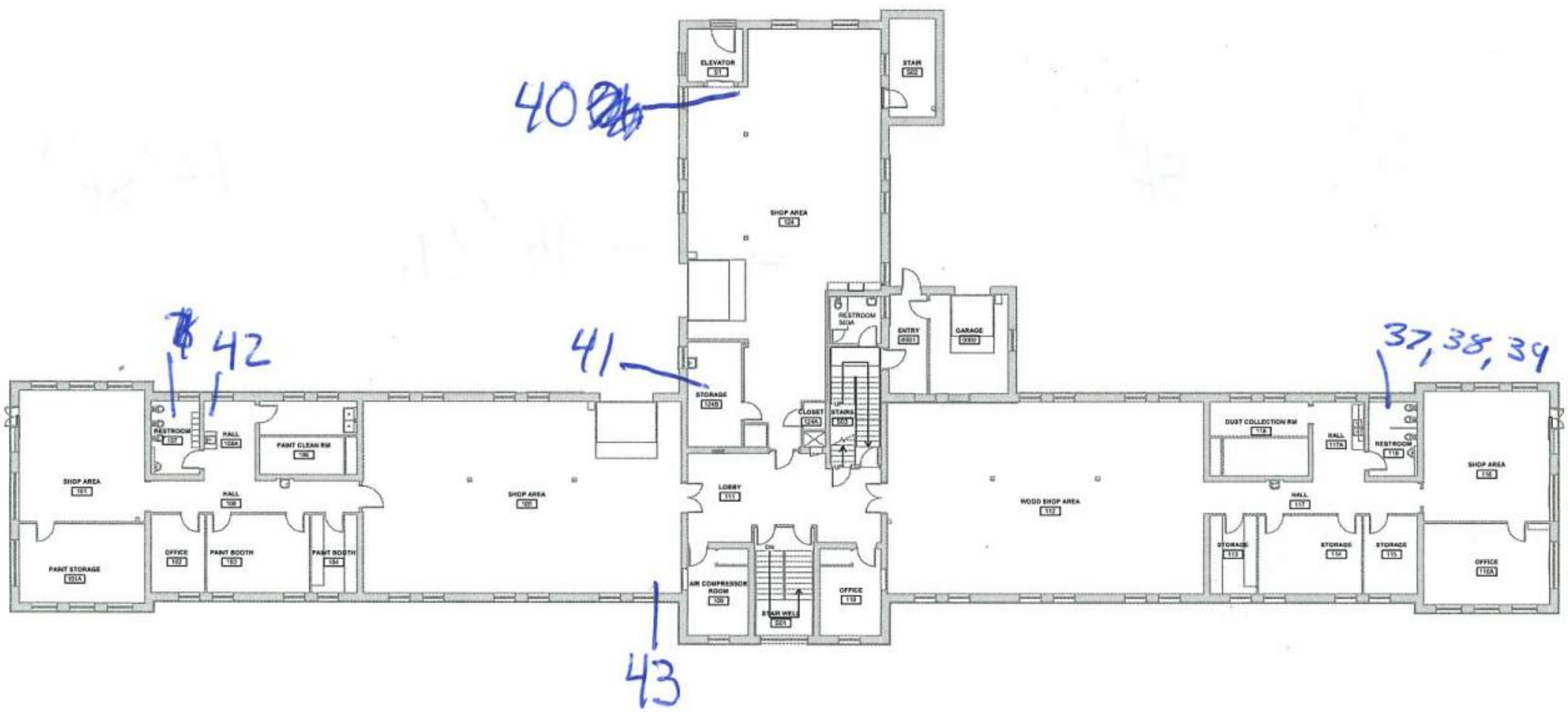
BASEMENT FLOOR PLAN

BIRCHES - FOR REVIEW

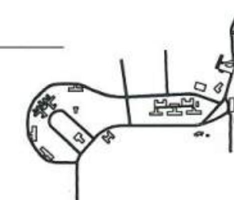
PRELIMINARY - NOT FOR CONSTRUCTION

IA DAS
310 Cedar Street, Woodward, IA 50276

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM



A6 FIRST FLOOR PLAN



PRELIMINARY - NOT FOR CONSTRUCTION

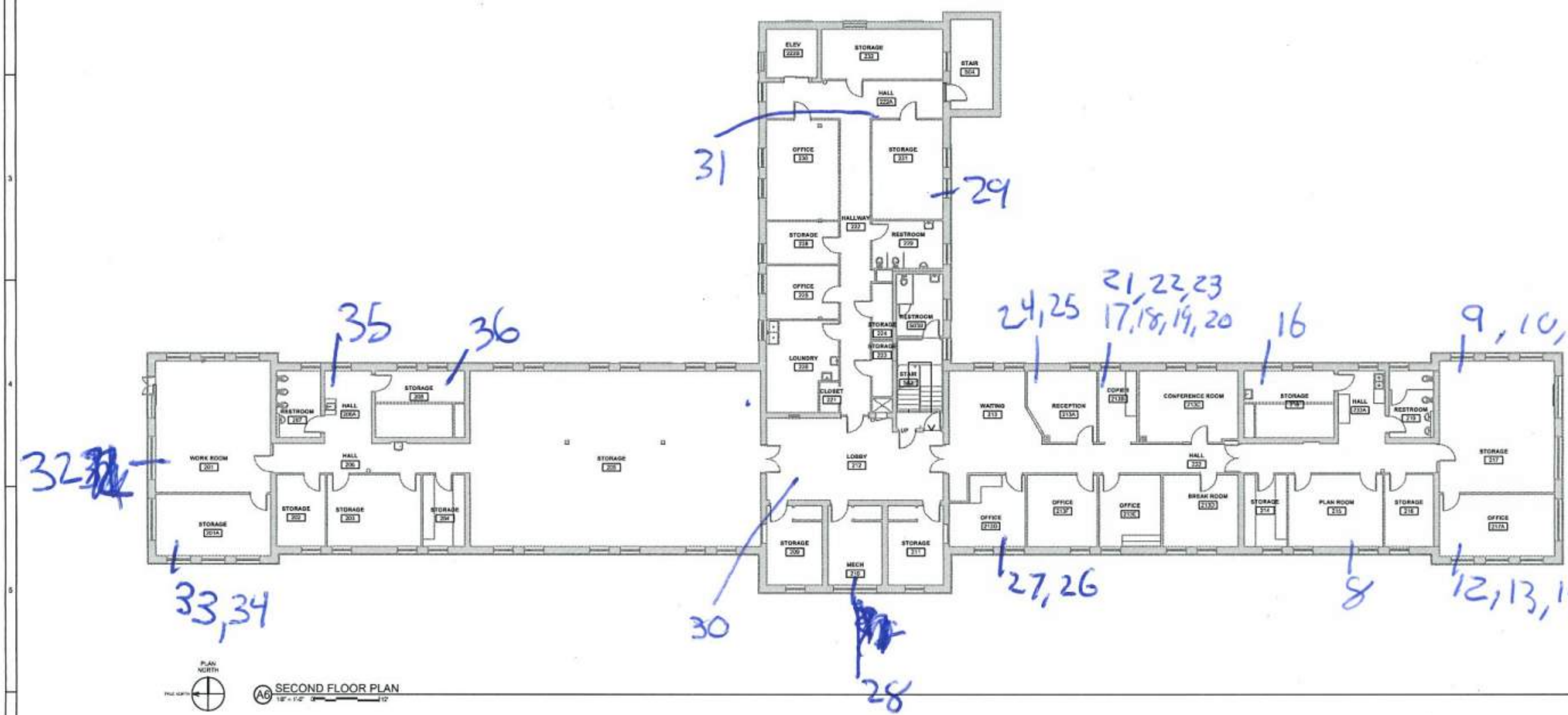
IA DAS
310 Cedar Street, Woodward, IA 50276

SHIVEHATTERY
ARCHITECTURE + ENGINEERING
4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

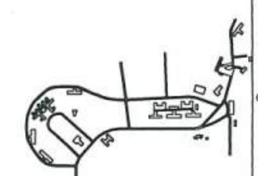
DRAWN BY	EF
APPROVED BY	Approver
ISSUED FOR	SITE VERIFICATIONS
ISSUE DATE	[illegible]
PROJECT NUMBER	[illegible]
FIELD BOOK	

FIRST FLOOR PLAN
BIRCHES - FOR REVIEW

A101



A6 SECOND FLOOR PLAN



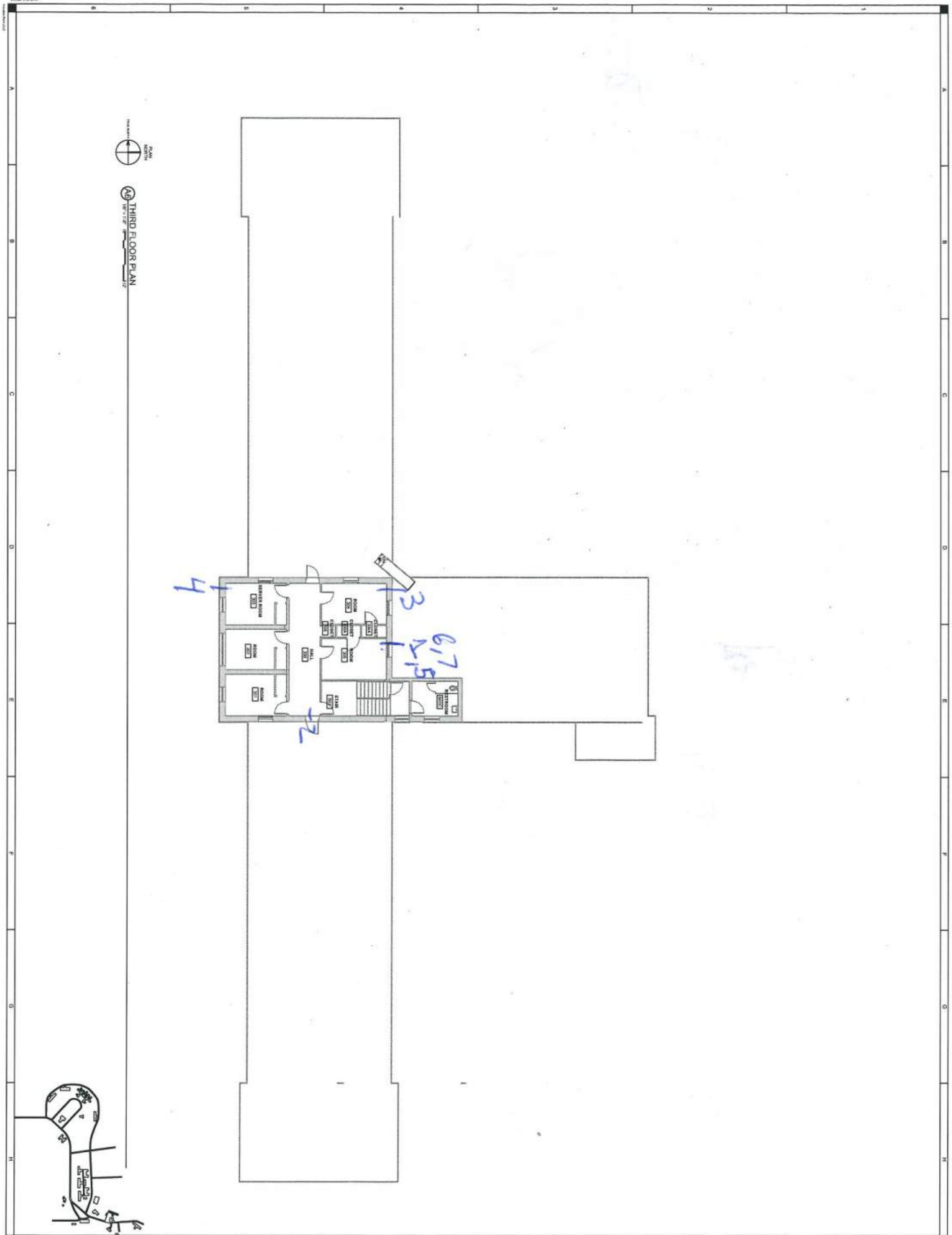
SHIVE HATTERY
ARCHITECTURE + ENGINEERING

IA DAS
310 Cedar Street, Woodward, IA 50276

PRELIMINARY
- NOT FOR
CONSTRUCTION

SECOND FLOOR PLAN
BIRCHES - FOR REVIEW

A102



A103

THIRD FLOOR PLAN

BIRCHES - FOR REVIEW

DRAWN BY	DP
APPROVED BY	Approver
ISSUED FOR	SITE VERIFICATIONS
ISSUE DATE	9/9/2024
PROJECT NUMBER	2240007040
FIELD BOOK	

PRELIMINARY - NOT FOR CONSTRUCTION

IA DAS
310 Cedar Street, Woodward, IA 50276

SHIVEHATTERY
ARCHITECTURE + ENGINEERING

4125 WESTOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

APPENDIX D

ASBESTOS AND LEAD PAINT PHOTO LOGS

View of the Birches Building.

1

View of the Asbestos Containing White Pipe Insulation. (B-6, 45% Chrysotile)

2

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

View of the Asbestos Containing White Caulk. (B-12, 6% Chrysotile)

3

View of the Asbestos Containing Window Glazing. (B-51, 5% Chrysotile)

4

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

View of the Asbestos Containing Gray Window Caulk. (B-52, 10% Chrysotile)	**5**

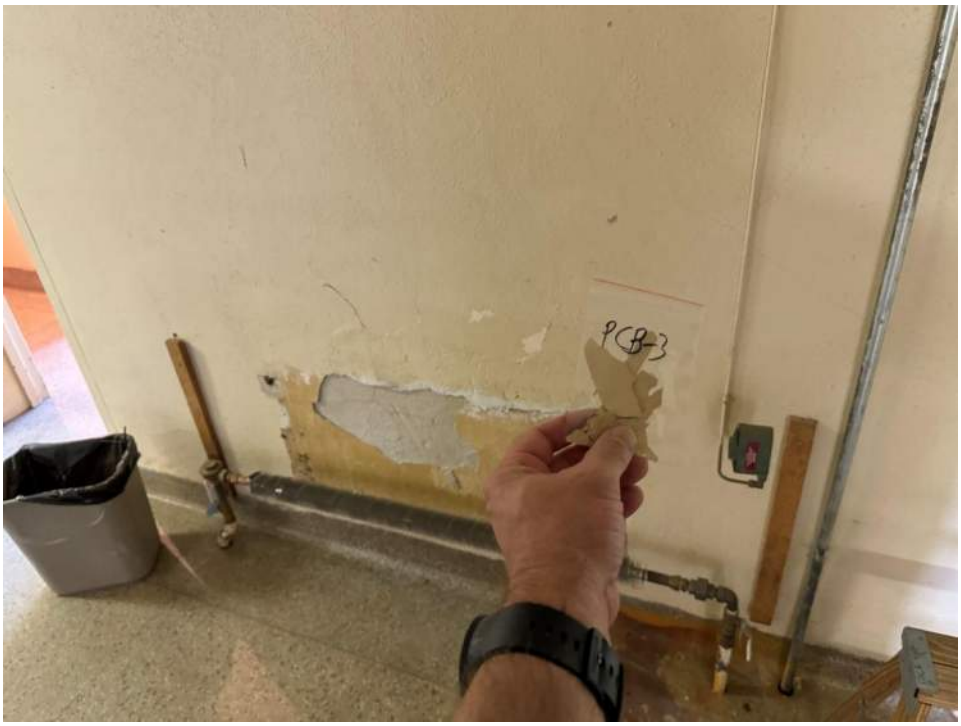
View of the Birches.	1

View of the Teal Lead Containing Paint. (PCB-1, 0.42% Pb)	2

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

View of the Yellow Lead Containing Paint. (PCB-2, 0.49% Pb)

3



View of the Yellow Lead Containing Paint. (PCB-3, 0.14% Pb)

4

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

View of the Green Lead Containing Paint. (PCB-4, 0.46% Pb)

5

View of the Blue-Green Lead Based Paint. (PCB-5, 0.64% Pb)

6

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

View of the Cream/Tan Lead Containing Paint. (PCB-6, 0.013% Pb)

7

View of the White Lead Containing Paint. (PCB-7, 0.046% Pb)

8

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

View of the White Lead Containing Paint. (PCB-8, 0.26% Pb)

9

View of the Light Blue Lead Containing Paint. (PCB-11, 0.26% Pb)

10

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

View of the Yellow Lead Containing Paint. (PCB-12, 0.29% Pb)

11

View of the Light Purple Lead Containing Paint. (PCB-13, 0.043% Pb)

12

View of the Silver Lead Containing Paint. (PCB-14, 0.026% Pb)

13

View of the White Lead-based Paint. (PCB-15, 10% Pb)

14

Photograph Log Birches 1251 334th Street Woodward, Iowa	**Atlas Technical Consultants, LLC** 4503 East 50th Street, Suite 800, Des Moines, IA 50317 (515) 981-4528 Project No. 204BS07475

APPENDIX E

INSPECTOR ACCREDITATIONS

ERIC BROWN

DOB: 05-07-1970

Issued: 02-27-2024

This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite.

License Type	Number	Expires
INSPECTOR	24-11418	02-09-2025

IOWA

Asbestos

Larry Johnson, Jr.
Labor Commissioner

PHILLIP THOMAS

DOB: 05-26-1976

Issued: 01-17-2024

This person is licensed to perform asbestos work in the State of Iowa. ID card is intended for official use only and must be present on jobsite

License Type	Number	Expires
INSPECTOR	24-11142	01-03-2025
PROJECT DESIGNER	24-11144	01-04-2025
MANAGEMENT PLANNER	24-11143	01-03-2025

DIVISION OF IOWA LABOR

Asbestos

Larry Johnson, Jr.
Labor Commissioner