

ANALYSIS OF BROWNFIELDS CLEANUP ALTERNATIVES



**Former Greenleaf Healthcare Facility
1305 North 22nd Street**

**City of Fort Dodge
Brownfield Cleanup Project
EPA Cooperative Agreement No. BF-97794001**

Prepared For:

**City of Fort Dodge
819 1st Avenue S.
Fort Dodge, Iowa 50501**

Prepared by:



**8951 Windsor Parkway
Johnston, IA 50131**

March 21, 2023

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1.0 EXECUTIVE SUMMARY

The city of Fort Dodge (City) is currently participating in the U.S. Environmental Protection Agency's (EPA) Brownfield Cleanup Program. The City identified an approximate 1.21-acre parcel (parcel #07-16-351-022) of land located in a residential area of Fort Dodge (Appendix A) at 1305 North 22nd Street as their target for this Brownfields project. Hereinafter, this 1.21-acre parcel is referred to as the "Site." Impact7G, Inc. (Impact7G) was retained by the City to complete an Analysis of Brownfields Cleanup Alternatives (ABCA). After reviewing all the alternatives, Impact7G recommends the complete abatement of all asbestos containing materials within the building so it can be properly and safely demolished in accordance with local, state, and federal regulations to ensure redevelopment of the Site. This ABCA will detail each alternative for cleanup.

2.0 INTRODUCTION

2.1 Site Location

The Site is comprised of one approximately 1.21-acres parcel located at 1305 North 22nd Street in Fort Dodge, Iowa. The structure is approximately 32,250 SF in area and is located in a residential area of Fort Dodge. The Site is currently owned by the city of Fort Dodge and consists of a two-story building with an associated basement constructed in 1935, a one-story addition constructed in 1965, and a two-story addition constructed in 1974.

2.2 Previous Site Use(s)

The Site consists of an approximate 32,250 square foot (SF) building formerly used as a nursing home facility. The original 4,152 SF two-story structure with a basement was constructed circa 1935 and was used as the administration offices and HVAC hub for the facility. In 1965 a 10,854 SF one-story addition was constructed, consisting of patient rooms. An 11,472 SF two-story addition was constructed in 1974 consisting of patient rooms and common areas. This facility has been abandoned and vacant since 2014.

2.3 Site Assessment Findings

An asbestos containing materials (ACM) Inspections was completed by Asbestos Inspections, Testing & Training in April 2016. Impact7G completed a supplemental ACM Inspection on November 1 and 2, 2021 and February 20 and 21, 2023. The purpose of the ACM Inspections is to identify and sample all suspected building materials located on the Site.

Asbestos was detected in 66 of the 265 analyzed samples from the November 2021 and February 2023 reports submitted to the City by Impact7G. ACMs include:

- Duct Seam Tape
- 9" x 9" Floor Tile(s)
- 9" x 9" Floor Tile Mastic(s)
- Wall Panel Adhesive
- Water Heater Insulation
- Linoleum Floor(s)
- Ceiling Texture(s)
- 12" x 12" Floor Tile Mastic(s)
- 12" x 12" Floor Tile(s)
- Linoleum Adhesive(s)
- Sink Insulation
- Drywall Compound (Mud)(s)
- Wall Texture(s)
- Window Glaze(s)
- Drywall Joint Compound (associated with Ceramic Adhesive)
- Fire Door
- Caulk(s)
- Transite Flue
- Conduit Tar(s)
- Tar(s)
- Tar Paper

All building materials similar in appearance, color, and/or texture to those determined to contain asbestos must be assumed to contain asbestos throughout this building.

ACMs must be removed by a certified asbestos abatement contractor within a full containment and disposed of as asbestos waste prior to conducting demolition activities that may disturb them.

The asbestos containing materials inspection containing the documented locations and estimated amounts is included in Appendix B.

3.0 PROJECT GOAL

The Site is planned to be used for additional residential development to blend in with the existing surrounding residential land use. The goal of this project is to mitigate the asbestos at the Site by abatement.

In addition to the above project goal, this project has a green and sustainable remediation goal to protect human health and the environment from contaminants. As part of the asbestos removal the air quality will be monitored. The request for bids will ask bidders to provide details of all equipment that will be used on the site for the removal of asbestos. Contractors using fewer emission emitting vehicles and equipment will be weighted into the final award decision. The project will include a waste management section into the site management plan, to ensure that additional contamination does not occur. These efforts are to reduce the demands placed on the environmental during cleanup.

4.0 APPLICABLE REGULATIONS AND CLEANUP STANDARDS

4.1 *Cleanup Oversight Responsibility*

Impact7G will oversee the cleanup in accordance with local, state, and federal regulations. Impact7G will provide on-site guidance of regulations and observations during the cleanup process. Impact7G will provide air monitoring services and project observation, which will include the collection and analysis of short-term excursion limit air samples, area air samples by each removal area, air samples at each entrance to a containment area, and HEPA exhaust air samples in order to document any potential fiber releases. These samples will be analyzed via the Phase Contrast Microscopy (PCM) method. At the completion of the asbestos removal and upon the passing of a visual inspection, final clearance air samples will be collected and analyzed using the PCM method.

All documents prepared during cleanup activities will be compiled into a final cleanup report.

4.2 *Cleanup Standards for Major Contaminants*

Asbestos is the major contaminant of concern. Prior to the demolition of the structure, an Iowa licensed asbestos abatement contractor will remove and dispose of identified ACM pursuant to National Emissions Standards Hazardous Pollutants (NESHAP) regulations.

The asbestos NESHAP regulations specify work practices for asbestos to be followed during demolitions and renovations of all structures, installations, and buildings (excluding residential buildings that have four or fewer dwelling units). The regulations require the

owner of the building or the operator to notify the appropriate state agency before any demolition, or before any renovations that could contain a certain threshold amount of asbestos or asbestos-containing material. In addition, particular manufacturing, and fabricating operations either cannot emit visible emissions into the outside air or must follow air cleaning procedures, as well as follow certain requirements when removing asbestos-containing waste.

(<https://www.epa.gov/asbestos/asbestos-laws-and-regulations#ashara>)

4.3 Laws & Regulations Applicable to the Cleanup

Laws and regulations that are applicable to this cleanup include the NESHAP standards, Federal Small Business Liability Relief and Brownfields Revitalization Act, Federal Davis-Bacon Act, and city of Fort Dodge by-laws. Federal, state, and local laws regarding the procurement of contractors to conduct the cleanup will be followed.

The Site building was constructed circa 1935 with additions in 1965 and 1974. When federal funds are used on projects that will disturb historic structures or the ground associated with these structures, the State Historic Preservation Office (SHPO) must review the project under Section 106 of the National Historic Preservation Act. This Section 106 review will be submitted and approved prior to commencement of cleanup work at the Site.

All appropriate permits (i.e., IDNR 10-Day Notification, Iowa One-Call, Disposal, etc.) will be obtained prior to commencement of work.

5.0 EVALUATION OF CLEANUP ALTERNATIVES

5.1 Cleanup Alternatives Considered

To address the widespread asbestos contamination within the structure, two different alternatives were considered:

- Alternative #1 – No Action
- Alternative #2 – Full abatement and proper disposal of ACMs

5.2 Cost Estimate of Cleanup Alternatives

To satisfy EPA requirements, the effectiveness, ability to implement, and cost of each alternative must be considered prior to selecting a recommended cleanup alternative.

5.2.1 Effectiveness

- Alternative #1 – No Action:
 - A “No Action” alternative signifies that no remediation activities would be implemented at the Site. The “No Action” alternative does not include a means for mitigating or eliminating potential exposure to asbestos containing building materials both during and following redevelopment. This would also inhibit future redevelopment initiatives as this building must be removed prior to constructing the new residential unit(s). Therefore, the potential for human exposure would continue to exist for future residents, construction workers, commercial workers, and patrons.

- Alternative #2 – Full Abatement of ACM:
 - This alternative would utilize standard techniques to remove the ACM. ACM would be removed by a state certified asbestos abatement contractor and properly disposed at a licensed and permitted facility. The Site building would be free of asbestos containing materials with this alternative.

5.2.2 Implementability

- Alternative #1 – No Action:
 - Easy to implement since no actions will be conducted.
- Alternative #2 – Full Abatement of ACM:
 - Moderately difficult to implement followed by the demolition and redevelopment of the Site into residential unit(s); however, the end product would be the most advantageous to the community at large.

5.2.3 Cost

- Alternative #1 – No Action
 - \$36,000 annually to keep the building secure.
- Alternative #2 – Full Abatement of ACM:
 - Estimated \$266,180 for ACM abatement. The cost of redeveloping the Site into residential unit(s) is not included in this estimate.

6.0 RECOMMENDED CLEANUP ALTERNATIVE

Each of the alternatives and the comparison criteria are summarized below in **Table 1**. Based on the evaluation of remedial alternatives presented above, the recommended alternative is Alternative #2, full abatement and disposal of ACM. The full abatement and disposal of ACM was selected because it eliminates exposure while allowing site redevelopment.

Table 1 – Summary of Remedial Alternatives for Asbestos		
Evaluation Criteria	Alternative #1 No Action	Alternative #2 Full Abatement
Effectiveness & Reliability	Not Effective or Reliable.	Abatement of asbestos containing materials, removes the exposure pathways and is proven to be an effective and reliable form of remediation. Long-term maintenance is not required.
Feasibility & Ease of Implementation	Not feasible but easily implementable.	Utilizes standard construction, remedial, and abatement techniques. Therefore, this alternative is technically practical and easily implementable. Historically significant building materials will not be able to be reused.

Risk Reduction & Green and Sustainable Remediation	No reduction in risks to human health and the environment. No reduction in contaminant mobility or toxicity. No green and sustainable remediation benefits.	Risk to human health by exposure to ACM are permanently eliminated by abatement/removal.
Costs	\$36,000 annually	\$266,180
Time to Reach Permanent Solution	Will not be achieved.	12 to 18 months.

7.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Signatures of the environmental professionals responsible for this report:



Leon Johnson Environmental Specialist II, Report Preparer



Jon Reis, Senior Project Manager, Quality Control and Assurance

APPENDIX A
Site Vicinity Map

APPENDIX A – SITE VICINITY MAP



North



Site Vicinity Map

City of Fort Dodge – Former Greenleaf Healthcare Facility
1305 N 22nd Street
Fort Dodge, Iowa 50501



APPENDIX B

Asbestos Containing Materials Inspection Report

ASBESTOS CONTAINING MATERIALS INSPECTION



**Former Nursing Home
1305 N. 22nd Street
Fort Dodge, IA 50501**

Prepared for:

**City of Fort Dodge
819 1st Avenue South
Fort Dodge, IA 50501**

Prepared by:



**8951 Windsor Parkway
Johnston, Iowa 50131**

**November 12, 2021
(Amended March 20, 2023)**



ASBESTOS CONTAINING MATERIALS INSPECTION

**Former Nursing Home
1305 N. 22nd Street
Fort Dodge, IA 50501**

Inspected and Prepared by:

A handwritten signature in blue ink, appearing to read "B. Davison", written over a horizontal line.

Bradley Davison
Environmental Specialist II
Iowa Certified Asbestos Inspector: 21-64141

Inspected by:

A handwritten signature in black ink, appearing to read "Dakota Wenzel", written over a horizontal line.

Dakota Wenzel
Environmental Specialist I
Iowa Certified Asbestos Inspector: 21-66871

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Spencer Baldwin
Environmental Specialist I
Iowa Certified Asbestos Inspector: 21-60131

A handwritten signature in black ink, appearing to read "Tyler Silverthorn", written over a horizontal line.

Tyler Silverthorn
Project Manager
Iowa Certified Asbestos Inspector: 23-93701

Reviewed and Approved by:

A handwritten signature in black ink, appearing to read "Eric Lindeen", written over a horizontal line.

Eric Lindeen
Project Manager
Iowa Certified Asbestos Inspector: 21-59501

A handwritten signature in black ink, appearing to read "Jon Reis", written over a horizontal line.

Jon Reis
Senior Project Manager
Iowa Certified Asbestos Inspector: 23-96321

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1.0 EXECUTIVE SUMMARY

Impact7G, Inc. (Impact7G), completed an Asbestos Containing Materials (ACM) Inspection on November 1, and 2, 2021 and February 20, and 21, 2023 of the former nursing home facility located at 1305 N. 22nd Street, Fort Dodge, IA 50501 (Property). The purpose of this ACM Inspection is to document the presence of asbestos containing materials and assist the City of Fort Dodge (Client) in facilitating demolition activities of the facility.

Asbestos was detected in sixty-six (66) of the two hundred and sixty-five (265) samples collected from various building components within the Property's interior and exterior. See Table 1 for additional information. ACMs include:

- Duct Seam Tape
- 9" x 9" Floor Tile(s)
- 9" x 9" Floor Tile Mastic(s)
- Wall Panel Adhesive
- Water Heater Insulation
- Linoleum Floor(s)
- Ceiling Texture(s)
- 12" x 12" Floor Tile Mastic(s)
- 12" x 12" Floor Tile(s)
- Linoleum Adhesive(s)
- Sink Insulation
- Drywall Compound (Mud)(s)
- Mirror Adhesive/Mastic
- Wall Texture(s)
- Window Glaze(s)
- Drywall Joint Compound (associated with Ceramic Adhesive)
- Fire Door
- Caulk(s)
- Transite Flue
- Conduit Tar(s)
- Tar(s)
- Tar Paper

All building materials similar in appearance, color, and/or texture to those determined to contain asbestos must be assumed to contain asbestos throughout this building.

Based on these results, the Property requires further action prior to any renovation or demolition activities.

2.0 INTRODUCTION

A. Property Information

Location:

Former Nursing Home
1305 N. 22nd Street
Fort Dodge, IA 50501

Contact Person:

Vickie Reeck
City of Fort Dodge
819 1st Avenue South
Fort Dodge, IA 50501

B. Personnel

Manager: Jon Reis	State of Iowa License	23-96321
Manager: Eric Lindeen	State of Iowa License	21-59501
Inspector: Dakota Wenzel	State of Iowa License	21-66871
Inspector: Spencer Baldwin	State of Iowa License	21-60131
Inspector: Brad Davison	State of Iowa License	21-64141
Inspector: Tyler Silverthorn	State of Iowa License	23-93701

C. Sampling Plan

According to the Client, the scope of this ACM Inspection includes the facility.

This ACM Inspection is in accordance with OSHA Regulation 1926.1101. All samples collected in the field were sent to EMSL, an NVLAP certified laboratory for analysis. The samples were analyzed via the polarized light microscopy (PLM) method for asbestos content. If requested by Client, samples were further analyzed via the transmission electron microscopy (TEM) method or PLM 400 Point Count analysis method.

D. Regulation Review

The U.S. EPA qualifies asbestos containing materials (ACM) as materials with an asbestos content greater than 1%. According to Iowa OSHA, ACM is any material found to contain asbestos, regardless of its concentration, and shall be regulated as hazardous waste. 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 nonfriable asbestos-containing material (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 nonfriable ACM” is defined as any material, excluding Category I nonfriable 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.

3.0 PROPERTY DESCRIPTION

The Property consists of an approximate 32,250 square foot (SF) building formerly used as a nursing home. The original 4,152 SF two story structure with a basement was constructed in 1935 and was used as the administration offices and HVAC hub for the facility. In 1965 a 10,854 SF addition was constructed and consists of patient rooms and is referred to as building 2. A 11,472 SF addition was constructed in 1974 consisting of patient rooms and common areas and is referred to as building 3 and 4. This facility was abandoned and in poor condition at the time of this inspection.

4.0 INSPECTION LIMITATIONS

An Inspection limitation, for the purpose of this report, is any action or task that is limited from the original scope work. The overall reason for any limitation is the protection of Impact7G personnel. Examples of limitations can range from a lack of accessibility to an area of the Property, unsafe work areas, collecting additional samples, etc.

No limitations were encountered at the time of the inspection.

5.0 INSPECTION ACTIVITIES

Iowa certified asbestos inspectors from Impact7G collected 175 samples on November 1 and 2, 2021 and 90 additional samples on February 20 and 21, 2023. The samples were collected from various accessible building components located throughout the Facility. Upon completion of bulk sampling activities, samples were sent to EMSL, an NVLAP certified laboratory for analysis.

Materials that are “suspected” to contain asbestos are divided into the following three categories:

1. **Surfacing materials** are materials that are sprayed or troweled on for acoustical, decorative, or fireproofing purposes. Examples are textured ceilings or drywall, exterior stucco and structural steel fireproofing;
2. **Thermal System Insulation (TSI)** is insulation used to inhibit heat transfer from pipes, boilers, tanks, ducts, and various other components of hot and cold-water systems and HVAC systems. Examples are hard cementitious “mud” type insulation on pipes, boilers and flues; and,
3. **Miscellaneous** materials are mostly non-friable products and materials such as floor tile, drywall, ceiling tile and roofing felt.

The following tables show samples positively identified by the laboratory to be asbestos containing materials (ACM) and samples that were analyzed as non-ACM. The complete analytical results can be found in Appendix B.

Table 1 – Asbestos Containing Materials Sample List

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content	Est. Quantity
1305-01 ABC	Duct Seam Tape	TSI	Y	White	All	SW Admin Building - On Duct Throughout Walls & Basement	60% Chrysotile	150 LF
1305-02	9" x 9" Floor Tile	Misc	N	Brown	B	SW Admin Building - Storage & Cab Room	6% Chrysotile	340 SF
1305-03	9" x 9" Floor Tile Mastic	Misc	N	Black	B	SW Admin Building - Storage & Cab Room	6% Chrysotile	Included in Above
1305-04-Floor Tile	9" x 9" Floor Tile	Misc	N	Tan	B	SW Admin Building - Storage & Cab Room	6% Chrysotile	Included in Above
1305-04-Floor Tile	9" x 9" Floor Tile	Misc	N	Red	B	SW Admin Building - Storage & Cab Room	4% Chrysotile	Included in Above
1305-05	9" x 9" Floor Tile Mastic	Misc	N	Black	B	SW Admin Building - Storage & Cab Room	<1% Chrysotile	Included in Above
1305-09	Wall Panel Adhesive	Misc	N	Black	B	SW Admin Building -South Storage Room	<1% Chrysotile	430 SF
1305-14	Insulation	TSI	Y	White	B	SW Admin Building - Boiler Room - Weil McClain Water Heater	60% Chrysotile	40 SF
1305-19	Linoleum Floor	Misc	N	Tan Square	2	SW Admin Building - Throughout 2nd Floor - Rooms	30% Chrysotile	900 SF
1305-38	Linoleum Floor	Misc	N	Tan Squares	1	SW Admin Building - Throughout Room	60% Chrysotile	1,300 SF
1305-40	9" x 9" Floor Tile	Misc	N	Tan	1	SW Admin Building - Room 27 Under Linoleum	2% Chrysotile	Included in Above
1305-46	9" x 9" Floor Tile	Misc	N	Tan W/Brown Streaks	1	Building 2 - Hallway & Patient Rooms	2% Chrysotile	2,750 SF
1305-48 ABC	Ceiling Texture	Surf	Y	White	1	Building 2 - Hallway & Patient Rooms	30% Chrysotile	2,750 SF
1305-50-Mastic	12" x 12" Floor Tile Mastic	Misc	N	Black	1	Building 2 - Restrooms	<1% Chrysotile	100 SF

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Est. Quantity** – SF=Square foot, LF=Linear foot, EA=Each

Table 1 – Asbestos Containing Materials Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content	Est. Quantity
1305-50-Debris	12" x 12" Floor Tile Mastic	Misc	N	Black	1	Building 2 - Restrooms	2% Chrysotile	Included in Above
1305-54-Linoleum	Linoleum Floor - Rounded Squares	Misc	N	Tan/Brown	1	Building 3 - Patient Rooms	26% Chrysotile	3,100 SF
1305-55	12" x 12" Floor Tile - Streaks	Misc	N	Tan & Brown	2	Building 3 & 4 Throughout Hallways & Patient Rooms	2% Chrysotile	9,500 SF
1305-56	12" x12" Floor Tile Mastic	Misc	N	Black	2	Building 4 - 2 nd Floor Throughout Hallways & Patient Rooms	2% Chrysotile	Included in Above
1305-58	Linoleum Adhesive	Misc	N	Brown	2	Building 4 - Patient Room, Restrooms	2% Chrysotile	50 SF
1305-61	Sink Insulation	Misc	N	Gray	1 & 2	Building 3 & 4	3% Chrysotile	8 EA
1305-63	Linoleum Adhesive	Misc	N	Black	1 & 2	Building 4 - Self Care/Shower Rooms	2% Chrysotile	450 SF
1305-66	Drywall - Compound	Surf	N	White	1 & 2	Building 4 Walls & Ceiling	<1% Chrysotile	35,900 SF
1305-67	Drywall - Tape	Misc	N	White	1 & 2	Building 4 Walls & Ceilings	*Layer Not Present	Included in Above
1305-68	Mirror Adhesive	Misc	N	Black	1 & 2	Building 4 - Bathroom Door Mirrors	10% Chrysotile	19 EA
1305-71 ABC-Texture	Wall Texture	Surf	Y	White	1 & 2	Building 4	<1% Chrysotile	Same as 1305-66
1305-72	Window Glaze	Misc	N	Gray	1 & 2	Building 4 - Patient Rooms	7% Chrysotile	38 EA
1305-75-Joint Compound	Ceramic Adhesive Joint Compound	Misc	N	Brown	1 & 2	Building 4 - Self Care/Shower Rooms	<1% Chrysotile	110 SF
1305-76	Fire Door	Misc	N	White	1	Building 4 - Emergency Generator Room	2% Chrysotile 10% Amosite	12 EA
1305-77	Caulk	Misc	N	White	1	Building 4 - Emergency Generator Room	<1% Chrysotile	15 LF
1305-83	Caulk	Misc	N	Black	R	Admin Building - Membrane Seams	<1% Chrysotile	200 LF

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Est. Quantity** – SF=Square foot, LF=Linear foot, EA=Each

Table 1 – Asbestos Containing Materials Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content	Est. Quantity
1305-88	Transite Flue	Misc	Y	Light Gray	R	Building 2 - Roof to Interior	16% Chrysotile 6% Crocidolite	20 LF
1305-90	Conduit Tar	Misc	N	Black /Gray	R	Throughout Entire Structure	3% Chrysotile	560 LF
1305-108	Tar	Misc	N	Gray	R	Building 4 - Large Ac Units & Round Vents	2% Chrysotile	60 LF
1305-111	Conduit Tar	Misc	N	Gray	R	Building 4 - Small Ac Units	3% Chrysotile	15 LF
1305-122	Window Glaze	Misc	N	White	Ext	Admin Building - Windows	<1% Chrysotile	40 EA
1305-128	Tar Paper	Misc	N	Black	Ext	Admin Building - West Entrance Overhang Layer 4	16% Chrysotile	50 SF
1305-131 ABC	Ceiling Texture	Surf	Y	White	1	Building 2 - Hallway & Patient Rooms	2% Chrysotile	Same as 1305-48
1305-134	12" x 12" Floor Tile	Misc	N	Tan w/Lines	1	Building 3 - Storage by North Entrance	2% Chrysotile	90 SF
1305-136	Tar	Misc	N	Black	R	Building 3 & 4 Roof Unions	6% Chrysotile	50 SF
1305-137	Caulk	Misc	N	Beige	Ext	Building 3 - Door to Exterior	<1% Chrysotile	15 LF
1305-150	Flashing Caulk	Misc	N	Black	R	Building 2 Roof to Admin Wall	2% Chrysotile	50 LF
1305-151	Flashing Tar	Misc	N	Black	R	Building 2 Roof to Admin Wall	3% Chrysotile	50 SF
1305-184 ABC	Wall Texture	Surf	Y	Tan	1	Building 3 - Throughout	<1% Chrysotile	11,210 SF
1305-187 AC	Drywall Mud	Surf	N	Tan	1	Building 3 - Throughout	<1% Chrysotile	Included in 1305-187
1305-188 ABC	Drywall Mud	Surf	N	Tan	2	Building 4 - 2 nd Floor	<1% Chrysotile	Included in 1305-66
1305-191 ABC	Drywall Mud	Surf	N	White	1	Building 4 - 1 st Floor	<1% Chrysotile	Included in 1305-66

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Est. Quantity** – SF=Square foot, LF=Linear foot, EA=Each

Table 1 – Asbestos Containing Materials Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content	Est. Quantity
1305-192 ABC	Wall Texture	Surf	Y	White	1	Building 4 - 1 st Floor	<1% Chrysotile	Same as 1305-66
1305-194	12" x 12" Floor Tile	Misc	N	Beige	1	Building 4 - Throughout	3% Chrysotile	Included in 1305-55
1305-195	12" x12" Floor Tile Mastic	Misc	N	Black	1	Building 4 - Throughout	2% Chrysotile	Included in 1305-55
1305-196	Mirror Mastic	Misc	N	Black	1	Building 3 - Closet/Bathroom Doors	10% Chrysotile	13 EA

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Est. Quantity** – SF=Square foot, LF=Linear foot, EA=Each

Thirty-nine (39) bulk material samples were analyzed greater than 1%. Twenty-seven (7) of the remaining building material samples was/were detected with a concentration of <1. ACMs include duct seam tape, 9" x 9" floor tile(s), 9" x 9" floor tile mastic(s), wall panel adhesive, water heater insulation, linoleum floor(s), ceiling texture(s), 12" x 12" floor tile mastic(s), 12" x 12" floor tile(s), linoleum adhesive(s), sink insulation, drywall compound/mud(s), mirror adhesive/mastic, wall texture(s), window glaze(s), drywall joint compound associated with ceramic adhesive, fire door, caulk(s), transite flue, conduit tar(s), tar(s), and tar paper. If during demolition or renovation activities additional areas of identified ACM are discovered, they should be abated accordingly. Laboratory analytical reports are provided in Appendix B.

Asbestos Containing Material (ACM) is defined as any material containing greater than one percent (>1%) asbestos. Building materials containing equal to one percent (1%) or less than one percent (<1%) asbestos by **point count analysis** are not classified as Regulated Asbestos Containing Material (RACM) by the EPA. Although an asbestos abatement contractor is not required to remove materials containing 1% or less asbestos, these materials must be removed wet and promptly contained and disposed of in leak-tight containers. Materials containing 1% or less asbestos are not required to be disposed of at an approved landfill as asbestos waste material. Employers of those engaging in the disturbance of 1% or less asbestos are required to provide their workers with Asbestos Awareness training of at least two hours prior to disturbance of said materials. Further, those removing materials containing 1% or less asbestos must maintain documentation proving that breathing zone exposures do not exceed either OSHA's permissible exposure limit or short-term excursion limit.

It is important to note that these are estimated quantities; therefore, the abatement contractors and the client representative should discern between the estimated quantity above and future exploration of the property at the pre-bid walk-through to determine the final quantity during abatement procedures.

Table 2 – Non-Asbestos Containing Material Sample List

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-06	Carpet Adhesive	Misc	N	Yellow	B	SW Admin Building - South Storage Room	ND
1305-07	2' x 4' Ceiling Tile - Pins & Grooves	Misc	Y	White	B	SW Admin Building - South Storage Room	ND
1305-08	1' x 1' Ceiling Tile - Pins	Misc	Y	White	B	SW Admin Building - South Storage Room	ND
1305-10 ABC	Joint Wrap	TSI	N	Gray	All	Throughout Entire Structure	ND
1305-11 ABC	Joint Mud	TSI	N	Gray	All	Throughout Entire Structure	ND
1305-12	Pipe Wrap	TSI	N	White	All	Throughout Entire Structure	ND
1305-13	Fiberglass Pipe Insulation	TSI	N	Yellow	All	Throughout Entire Structure	ND
1305-15	12" x 12" Floor Tile	Misc	N	Tan Pebbles	B	SW Admin Building - Stair Landing	ND
1305-16	Floor Tile Adhesive	Misc	N	Clear	B	SW Admin Building - Stair Landing	ND
1305-17	1' x 1' Ceiling Tile - Deep Grooves	Misc	Y	White	2	SW Admin Building - Throughout 2nd Floor & Stairs	ND
1305-18	Ceiling Tile Puck Adhesive	Misc	N	Dark Brown	2	SW Admin Building - Throughout 2nd Floor & Stairs	ND
1305-20	Linoleum Adhesive	Misc	N	Black	2	SW Admin Building - Throughout 2nd Floor - Rooms	ND
1305-21	Carpet Adhesive	Misc	N	Yellow	2	SW Admin Building - Hallway Under Carpet 2nd Layer	ND
1305-22	Floor Leveler	Misc	N	White	2	SW Admin Building - Hallway Under Carpet 3rd Layer	ND
1305-23	Floor Felt	Misc	N	Black	2	SW Admin Building - Hallway Under Carpet 4th Layer	ND
1305-24	Floor Felt Adhesive	Misc	N	Brown	2	SW Admin Building - Hallway Under Carpet 5th Layer on Concrete	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-25	Caulk	Misc	N	White	2	SW Admin Building - Hallway Under Carpet 4th Layer	ND
1305-26	Grout	Misc	N	Tan	1 & 2	SW Admin Building - Restrooms Ceramic Tiles	ND
1305-27	Countertop	Misc	N	White	2 & 2	SW Admin Building - Restrooms	ND
1305-28	Countertop Adhesive	Misc	N	White	1 & 2	SW Admin Building - Restrooms	ND
1305-29	Cove Base	Misc	N	Black	All	Throughout Entire Structure	ND
1305-30	Cove Base Adhesive	Misc	N	Brown	All	Throughout Entire Structure	ND
1305-31 ABCD	Skim Coat	Surf	N	White	All	SW Admin Building - Walls & Ceilings	ND
1305-32	Plaster	Surf	N	Gray	All	SW Admin Building - Walls & Ceilings	ND
1305-32 BC	Plaster	Surf	N	Gray	All	SW Admin Building - Walls & Ceilings	ND
1305-33	Drywall	Misc	N	White	All	SW Admin Building - Throughout Walls	ND
1305-34	Drywall Compound	Surf	N	White	All	SW Admin Building - Throughout Walls	ND
1305-35	Drywall Tape	Misc	N	White	All	SW Admin Building - Throughout Walls	ND
1305-36	Ceiling Insulation	Misc	N	White	2	SW Admin Building - Ceiling	ND
1305-37	Ceiling Insulation	Misc	N	Brown	2	SW Admin Building - Ceiling	ND
1305-39	Linoleum Adhesive	Misc	N	Brown	1	SW Admin Building - Throughout Room	ND
1305-41	9" x 9" Floor Tile Mastic	Misc	N	Black	1	SW Admin Building - Room 27 Under Linoleum	ND
1305-42	Wall Panel Adhesive	Misc	N	Yellow	1	SW Admin Building - Hallway	ND
1305-43	Caulk	Misc	N	White	1	SW Admin Building - Ceiling Tile Wall Unions	ND
1305-44	12" x 12" Floor Tile	Misc	N	Purple	1	Building 2 - Waiting Area	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-45	12" x 12" Floor Tile Mastic	Misc	N	Black	1	Building 2 - Waiting Area	ND
1305-47	9" x 9" Floor Tile Mastic	Misc	N	Black	1	Building 2 - Hallway & Patient Rooms	ND
1305-49	12" x 12" Floor Tile	Misc	N	Brown	1	Building 2 - Restrooms	ND
1305-51	1' x 1' Ceiling Tile - Squares	Misc	Y	White	1	Building 3 - Throughout	ND
1305-52	Ceiling Tile Puck Adhesive	Misc	N	Brown	1	Building 3 - Throughout	ND
1305-53	Drywall	Misc	N	White	1	Building 3 - Throughout Above 1' x 1'	ND
1305-54 Mastic	Linoleum Floor - Rounded Squares	Misc	N	Tan/Brown	1	Building 3 - Patient Rooms	ND
1305-57	Linoleum Floor - Pebbles	Misc	N	Brown & Tan	2	Building 4 - Patient Room, Restrooms	ND
1305-59 ABC	Ceiling Texture	Surf	N	White	1 & 2	Building 4 - Patient Rooms	ND
1305-60	Wall Insulation	Misc	N	Pink	All	Throughout Entire Structure	ND
1305-62	Linoleum Floor	Misc	N	Green	1 & 2	Building 4 - Self Care Rooms	ND
1305-64	Linoleum Adhesive	Misc	N	Brown	1& 2	Building 4 - Self Care Rooms	ND
1305-65	Drywall	Misc	N	White	1& 2	Building 3 & 4 Walls	ND
1305-69 ABC	Duct Seam Tape	TSI	N	White	1& 2	Building 3 & 4	ND
1305-70 ABC	Ceiling Texture	Surf	N	White	1& 2	Building 3 & 4	ND
1305-71 ABC-Drywall	Wall Texture	Surf	N	White	1& 2	Building 3 & 4	ND
1305-73	2" Ceramic Tiles	Misc	N	White	1 & 2	Building 4 - Shower Rooms	ND
1305-74	Ceramic Grout	Misc	N	Gray	1 & 2	Building 4 - Shower Rooms	ND
1305-75-Adhesive	Ceramic Adhesive	Misc	N	Brown	1 & 2	Building 4 - Self Care/Shower Rooms	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-78	Membrane	Misc	N	Black	R	Admin Building - Top Layer	ND
1305-79	Styrofoam	Misc	Y	White	R	Admin Building - 2nd Layer	ND
1305-80	Tar	Misc	N	Black	R	Admin Building - 3rd Layer - Bottom on Wood	ND
1305-81	Parapet Tar	Misc	N	Black	R	Admin Building - On Brick	ND
1305-82	Caulk	Misc	N	Light Gray	R	Admin Building - Parapet Cap Metal Strip	ND
1305-84	Membrane	Misc	N	Black	R	Building 2 - Top Layer	ND
1305-85	Styrofoam	Misc	Y	White	R	Building 2 - 2nd Layer	ND
1305-86	Tar	Misc	N	Black	R	Building 2 - 3rd Layer on Concrete	ND
1305-87 ABC	Stucco	Surf	N	Gray	Ext	Admin Building - Exterior Walls	ND
1305-89	Tar	Misc	N	Gray	R	Building 2 - On Transite Flue	ND
1305-91	Flashing	Misc	N	Black	R	Building 2 - Parapets & Stick Ups	ND
1305-92	Flashing Adhesive	Misc	N	Yellow	R	Building 2 - Parapets & Stick Ups	ND
1305-93	Parapet Tar	Misc	N	Black	R	Building 2 - Parapets & Stick Ups	ND
1305-94	Tar	Misc	N	Gray/Black	R	Building 2,3,4 - Conduit Inlet Boxes	ND
1305-95	Membrane	Misc	N	Black	R	Building 2 - Top Layer	ND
1305-96	Fiberboard	Misc	N	Brown	R	Building 2 - Layer 2	ND
1305-97	Styrofoam	Misc	Y	White	R	Building 2 - Layer 3	ND
1305-98	Asphalt	Misc	N	Black	R	Building 2 - Layer 4	ND
1305-99	Fiber Board	Misc	N	Brown	R	Building 2 - Layer 5	ND
1305-100	Tar	Misc	N	Black	R	Building 2 - Layer 6	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-101	Fiberboard	Misc	N	Brown	R	Building 2 - Layer 7	ND
1305-102	Tar	Misc	N	Black	R	Building 2 - Layer 8 Bottom Layer on Concrete	ND
1305-103	Membrane	Misc	N	Black	R	Building 4 - Top Layer	ND
1305-104	Styrofoam	Misc	Y	White	R	Building 4 - Layer 2	ND
1305-105	Tar	Misc	N	Black	R	Building 4 - Layer 3 Bottom on Concrete	ND
1305-106	Flashing	Misc	N	Black	R	Building 4 - Elevator Shaft	ND
1305-107	Flashing Tar	Misc	N	Black	R	Building 4 - Elevator Shaft	ND
1305-109	Parapet Tar	Misc	N	Black	R	Building 4 - Small AC Units	ND
1305-110	Protrusion Tar	Misc	N	Black	R	Building 4 - Protrusions	ND
1305-112	Caulk	Misc	N	Light Gray	R	Building 3 - Randomly on Seams	ND
1305-113	Expansion Joint Compound	Misc	N	Gray	Ext	Building 3 & 4 - Unions	ND
1305-114	Window Glaze	Misc	N	White	Ext	Building 4 - Main Entrance	ND
1305-115	Caulk	Misc	N	White	Ext	Building 4 - Main Entrance	ND
1305-116	Window Glaze	Misc	N	White	Ext	Building 4 - Patient Rooms	ND
1305-117	Caulk	Misc	N	White	Ext	Building 4 - Patient Room Frames	ND
1305-118	Caulk	Misc	N	White	Ext	Building 3 - Emergency Generator Room Vent	ND
1305-119 ABC	Stucco	Surf	N	Gray	Ext	Building 2 & 3 Exterior Walls	ND
1305-120	Caulk	Misc	N	Gray	Ext	Building 3 - Window Frames	ND
1305-121	Window Glaze	Misc	N	White	Ext	Building 2 - Windows	ND
1305-123	Panel	Misc	N	Red	Ext	Building 2 - Northwest Entrance	ND
1305-124	Caulk	Misc	N	White	Ext	Building 2 - Northwest Entrance Door Frames	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-125	Membrane	Misc	N	Black	Ext	Admin Building - West Entrance Overhang Top	ND
1305-126	Membrane	Misc	N	Black	Ext	Admin Building - West Entrance Overhang Layer 2	ND
1305-127	Tar	Misc	N	Black	Ext	Admin Building - West Entrance Overhang Layer 3	ND
1305-129	Tar	Misc	N	Black	Ext	Admin Building - West Entrance Overhang Parameter	ND
1305-130	Linoleum Floor	Misc	N	Tan W/Blue Specks	1	Building 3 - Hallways	ND
1305-132	1' x 1' Ceiling Tile - Grooves	Misc	Y	White	1	Building 3 - Sun Room	ND
1305-133	Ceiling Tile Puck Adhesive	Misc	N	Brown	1	Building 3 - Sun Room	ND
1305-135	12" x 12" Floor Tile	Misc	N	Brown Squares	1	Building 3 - Storage by North Entrance	ND
1305-136	Caulk	Misc	N	Tan	Ext	Building 3 Door to Exterior Room	ND
1305-138 ABC	Skim Coat	Surf	N	Gray	Ext	Building 3 Lower Wall	ND
1305-139 ABC	Stucco	Surf	N	Gray	Ext	Building 2	ND
1305-141 ABC	Skim Coat	Surf	N	Gray	Ext	Building 2 - Admin Building Trim	ND
1305-142	Caulk	Misc	N	White	Ext	Admin Building West Entry Door	ND
1305-143	Wall Caulk	Misc	N	White	Ext	Building 4 - 2 nd Floor Wall	ND
1305-144	Flashing Caulk	Misc	N	Beige	R	Building 3 Roof to Building 4 Wall	ND
1305-145	Flashing Caulk	Misc	N	Black	R	Building 3 Roof to Building 4 Wall	ND
1305-146	Caulk	Misc	N	White	R	Building 3 Exhaust Fan	ND
1305-147	Caulk	Misc	N	Black	R	Building 3 Exhaust Fan	ND
1305-148	Caulk	Misc	N	Tan	R	Building 3 Vent	ND

*No sample 1305-140 was collected

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-149	Flashing Caulk	Misc	N	Gray	R	Building 2 Roof to Admin Wall	ND
1305-152	Flashing Adhesive	Misc	N	Yellow	R	Building 2 Roof to Admin Wall	ND
1305-153	Flooring	Misc	N	Tan	2	Admin Hallway-Lower Layer	ND
1305-154	Tar Paper	Misc	N	Black	2	Admin Hallway	ND
1305-155	Cove Base	Misc	N	Brown	1	Admin Room 27	ND
1305-156	Cove Base	Misc	N	Red	1	Admin Dietitians Office	ND
1305-157	Fire Caulk	Misc	N	Red	B	Admin Laundry Room	ND
1305-158 ABC	Plaster	Surf	N	Gray	1	Building 2 -Throughout	ND
1305-159 ABC	Skim Coat	Surf	N	White	1	Building 2 -Throughout	ND
1305-160	Linoleum	Misc	N	Tan	1	Building 2 - Patient Bathroom	ND
1305-161	Ceiling Tile	Misc	Y	Gray/White	1	Building 2 Pin/Gouge - Throughout	ND
1305-162	2' x 2' Ceiling Tile	Misc	Y	Gray/White	1	Building 2 Pin/Gouge - Throughout	ND
1305-163	Ceramic Tile Mastic	Misc	N	Yellow	1	Building 2 - Bathrooms	ND
1305-164	Cove Base	Misc	N	Red	1	Building 2 - Hallway	ND
1305-165	Cove Base	Misc	N	Tan	1	Building 2 - Hallway	ND
1305-166	Cove Base Mastic	Misc	N	Black	1	Building 2 - Patient Room	ND
1305-167	Cove Base Mastic	Misc	N	Brown	1	Building 2 - Throughout	ND
1305-168	Cove Base	Misc	N	Beige	1	Building 2 - Throughout	ND
1305-169	12" x 12" Floor Tile	Misc	N	Gray	1	Building 3 - Throughout	ND
1305-170	Floor Tile Mastic	Misc	N	Yellow	1	Building 3 - Throughout	ND
1305-171	Cove Base	Misc	N	Brown	1	Building 3 - Throughout	ND
1305-172	Linoleum Mastic	Misc	N	Black	1	Building 3 - Hallway	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

Table 2 – Non-Asbestos Containing Material Sample List (Continued)

Sample #	Material Substance	Material Type (Surf/TSI/Misc)	Friable (Y or N)	Color	Floor	Location	Asbestos Content
1305-173	Diamond Cabinet Linoleum	Misc	N	Black/Beige	1	Building 3 - Drug Storage Room	ND
1305-174	Angled Brick Cabinet Linoleum	Misc	N	Tan	1	Building 3 - Drug Storage Room	ND
1305-175	Cove Base	Misc	N	Gray	1	Building 3 - Throughout	ND
1305-176	Cove Base Mastic	Misc	N	White	1	Building 3 - Throughout	ND
1305-177	12" x 12" Floor Tile	Misc	N	Red	1	Building 3 - Sun Room	ND
1305-178	12" x 12" Floor Tile	Misc	N	Gray	1	Building 3 - Sun Room	ND
1305-179	2' x 4' Pin/Hole Ceiling Tile	Misc	Y	Gray/White	1	Building 3 - Throughout	ND
1305-180	2' x 4' Pin/Gouge Ceiling Tile	Misc	Y	Gray/White	1	Building 3 - Throughout	ND
1305-181	2' x 2' Pin/Gouge Ceiling Tile	Misc	Y	Gray/White	1	Building 3 - Throughout	ND
1305-182 ABC	Plaster	Surf	N	Gray	1	Building 3 - Throughout	ND
1305-183 ABC	Skim Coat	Surf	N	Gray	1	Building 3 - Throughout	ND
1305-185	Drywall	Misc	N	White	1	Building 3 - Throughout	ND
1305-186	Drywall Tape	Misc	N	White	1	Building 3 - Throughout	ND
1305-187 B	Drywall Mud	Surf	N	Tan	1	Building 3 - Throughout	ND
1305-189	Drywall	Misc	N	White	1	Building 4 - 1 st Floor	ND
1305-190 ABC	Drywall Tape	Misc	N	White	1	Building 4 - 1 st Floor	ND
1305-193	2' x 4' Pin/Gouge Ceiling Tile	Misc	Y	Gray/White	1	Building 4 - Throughout	ND
1305-197	Vent Caulk	Misc	N	Gray	R	Admin Vent Fan	ND
1305-198	Vent Caulk	Misc	N	Black	R	Admin Vent Fan	ND

Material Type – Surf=Surfacing, TSI=Thermal System Insulation, Misc=Miscellaneous / **Asbestos Content** – ND=None Detected

6.0 CONCLUSIONS / RECOMMENDATIONS

The following conclusions and recommendations are summarized as follows:

- Asbestos was detected in sixty-six (66) of the bulk material samples collected from the former nursing home facility located at 1305 N. 22nd Street, Fort Dodge, IA 50501. ACMs include duct seam tape, 9" x 9" floor tile(s), 9" x 9" floor tile mastic(s), wall panel adhesive, water heater insulation, linoleum floor(s), ceiling texture(s), 12" x 12" floor tile mastic(s), 12" x 12" floor tile(s), linoleum adhesive(s), sink insulation, drywall compound/mud(s), mirror adhesive/mastic, wall texture(s), window glaze(s), drywall joint compound associated with ceramic adhesive, fire door, caulk(s), transite flue, conduit tar(s), tar(s), and tar paper. Based on the results of the data collected during the assessment, the building requires further action prior to demolition.

Impact7G recommends the abatement of all ACM containing components located within the inspection area if those building materials are to be disturbed during any future renovation/demolition activities. All abatement work shall be completed in accordance with local, state, and federal regulations. A visual inspection is recommended upon completion of abatement work to document that all ACMs within the scope of abatement have been removed.

7.0 CONDITIONS & LIMITATIONS

The Iowa Department of Natural Resources' (IDNR) Air Quality Bureau and Occupational Safety and Health Bureau (OSHA) of the Iowa Division of Labor Services require notification of any renovation/demolition activities in non-residential projects if the combined regulated ACM meets or exceeds any of the following thresholds: 160 square feet of surfacing ACM, 260 linear feet of TSI, or 35 cubic feet of ACM debris.

Impact7G has performed the tasks contained within this report in a thorough and professional manner consistent with commonly accepted standard industry practices. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the property. Impact7G cannot guarantee, and does not warrant, that this report has identified all adverse environmental factors and/or conditions affecting the subject property. This report is not a bidding document or project specification as it does not contain the necessary components. Impact7G cannot warrant the work of any third party that may have aided in the completion of this report. This report has been prepared on behalf of and exclusively for use by the City of Fort Dodge for specific application to their project as discussed. Contractors, consultants or other third parties reviewing this report must draw their own conclusions regarding data contained within the report, further investigation or required remediation.

APPENDIX A
Qualifications

JONATHAN REIS

DOB: 02-13-1984

Issued: 03-01-2023



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	23-9632	02-01-2024
PROJECT DESIGNER	22-9015	02-11-2023
SUPERVISOR	22-9016	02-10-2023



Asbestos

**Larry Johnson, Jr.
Labor Commissioner**

TYLER SILVERTHORN

DOB: 02-08-1988

Issued: 01-24-2023



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	23-9370	01-18-2024
SUPERVISOR	20-4324	01-09-2021



Asbestos

Rod A. Roberts

Rod A. Roberts
Labor Commissioner

Certificate of Completion

BRADLEY DAVISON

DOB: 01-30-1987

Issued: 06-14-2021




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.

Impact7G, Inc.

certifies that

Bradley Davison

License Type	Number	Expires
MANAGER PLANNER	21-6388	01-18-2022
INSPECTOR	21-6414	05-14-2022
SUPERVISOR	21-6415	05-13-2022

 *Rod A. Roberts*
Rod A. Roberts
Labor Commissioner

has successfully completed and passed the associated examination for the

Asbestos Inspector Annual Review

course accredited by the State of Missouri and conducted in accordance with the requirements of 40 CFR 763. The person receiving this certificate has completed the required training for asbestos certification under TSCA Title II.

Course Date: May 14, 2021
Examination Date: May 14, 2021
Expiration Date: May 14, 2022
Course Location: 9550 Hickman Road, Suite 105, Clive, Iowa
Certificate Number: 051421-INR-04




Director of Training
9550 Hickman Road, Suite 105
Clive, IA 50325
515-473-6256

Certificate of Completion

DAKOTA WENZEL

DOB: 10-07-1993

Issued: 04-01-2020




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.


Impact7G, Inc.

certifies that

Dakota Wenzel

License Type	Number	Expires
SUPERVISOR	20-4327	03-13-2021

 Asbestos


Rod A. [unclear]
Labor Commissioner

has successfully completed and passed the associated examination for the

Asbestos Initial Contractor / Supervisor

course accredited by the State of Missouri and conducted in accordance with the requirements of 40 CFR 763. The person receiving this certificate has completed the required training for asbestos certification under TSCA Title II.



Course Date: March 09-13, 2020
Exam Date: March 11 and 13, 2020
Expiration Date: March 13, 2021
Course Location: 9550 Hickman Road, Suite 105, Clive, Iowa
Certificate Number: IAVIII7G_21760



Director of Training

9550 Hickman Road, Suite 105
Clive, IA 50325
515-473-6256

[Print](#)



Individual Asbestos License

Individual Asbestos License

License Number:	21-6413	Expiration Date:	05/25/2022
Issue Date:	06/14/2021		
License Type:	Contractor/Supervisor		
Previous License Number:	20-4437		
Last Name:	LINDEEN	First Name:	ERIC
		MI:	M
Address:	8620 CRESCENT CHASE		
	APT 9C		
	JOHNSTON IA 50131		
	USA		
Email Address:			
Telephone:			

APPENDIX B

Laboratory Reports / Chain of Custody Documentation



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162126233

Customer ID: IMPA25

Customer PO:

Project ID:

Attention: Eric Lindeen
Impact7G
9550 Hickman Road
Suite 105
Clive, IA 50325

Phone: (515) 473-6256

Fax: (515) 528-8005

Received Date: 11/04/2021 9:30 AM

Analysis Date: 11/05/2021

Collected Date: 11/01/2021

Project: City of Fort Dodge - 1305 N 22nd St, Fort Dodge, IA 50501 - Full ACM Inspection - BD_DW_SB - 11/1-2/2021

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-01A 162126233-0001	DUCT SEAM TAPE, WHITE, ALL, SW ADMIN BUILDING - ON DUCT THROUGHOUT WALLS & BASEMENT	Gray Fibrous Homogeneous		40.0% Non-fibrous (Other)	60% Chrysotile
1305-01B 162126233-0002	DUCT SEAM TAPE, WHITE, ALL, SW ADMIN BUILDING - ON DUCT THROUGHOUT WALLS & BASEMENT	Gray Fibrous Homogeneous		40.0% Non-fibrous (Other)	60% Chrysotile
1305-01C 162126233-0003	DUCT SEAM TAPE, WHITE, ALL, SW ADMIN BUILDING - ON DUCT THROUGHOUT WALLS & BASEMENT	Gray Fibrous Homogeneous		40.0% Non-fibrous (Other)	60% Chrysotile
1305-02 162126233-0004	9"x9" FLOOR TILE, BROWN, B, SW ADMIN BUILDING - STORAGE & CAB ROOM	Red Non-Fibrous Homogeneous		95.0% Non-fibrous (Other)	5% Chrysotile
1305-03 162126233-0005	9"x9" FLOOR TILE MASTIC, BLACK, B, SW ADMIN BUILDING - STORAGE & CAB ROOM	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
1305-04-Floor Tile 162126233-0006	9"x9" FLOOR TILE, TAN, B, SW ADMIN BUILDING - STORAGE & CAB ROOM	Tan Non-Fibrous Homogeneous		95.0% Non-fibrous (Other)	5% Chrysotile
1305-04-Floor Tile 162126233-0006A	9"x9" FLOOR TILE, TAN, B, SW ADMIN BUILDING - STORAGE & CAB ROOM	Red Non-Fibrous Homogeneous		96.0% Non-fibrous (Other)	4% Chrysotile
1305-05 162126233-0007	9"x9" FLOOR TILE MASTIC, BLACK, B, SW ADMIN BUILDING - STORAGE & CAB ROOM	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile

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Initial report from: 11/05/2021 16:28:27



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EMSL Order: 162126233
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Eric Lindeen Impact7G 9550 Hickman Road Suite 105 Clive, IA 50325	Phone: (515) 473-6256 Fax: (515) 528-8005 Received Date: 11/04/2021 9:30 AM Analysis Date: 11/05/2021 Collected Date: 11/01/2021
Project: City of Fort Dodge - 1305 N 22nd St, Fort Dodge, IA 50501 - Full ACM Inspection - BD_DW_SB - 11/1-2/2021	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-06 162126233-0008	CARPET ADHESIVE, YELLOW, B, SW ADMIN BUILDING - SOUTH STORAGE ROOM	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-07 162126233-0009	2'x4' CEILING TILE - PINS & GROOVES, WHITE, B, SW ADMIN BUILDING - SOUTH STORAGE ROOM	Brown/White Fibrous Homogeneous	60% Cellulose 30% MinWool	10.0% Non-fibrous (Other)	None Detected
1305-08 162126233-0010	1'x1' CEILING TILE - PINS, WHITE, B, SW ADMIN BUILDING - SOUTH STORAGE ROOM	Brown Fibrous Homogeneous	60% Cellulose 30% MinWool	10.0% Non-fibrous (Other)	None Detected
1305-09 162126233-0011	WALL PANEL ADHESIVE, BLACK, B, SW ADMIN BUILDING - SOUTH STORAGE ROOM	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
1305-10A 162126233-0012	JOINT WRAP, GRAY, ALL, THROUGHOUT ENTIRE STRUCTURE	Gray Fibrous Homogeneous	40% Cellulose	60.0% Non-fibrous (Other)	None Detected
1305-10B 162126233-0013	JOINT WRAP, GRAY, ALL, THROUGHOUT ENTIRE STRUCTURE	Gray Fibrous Homogeneous	40% Cellulose	60.0% Non-fibrous (Other)	None Detected
1305-10C 162126233-0014	JOINT WRAP, GRAY, ALL, THROUGHOUT ENTIRE STRUCTURE	Gray Fibrous Homogeneous	40% Cellulose	60.0% Non-fibrous (Other)	None Detected
1305-11A 162126233-0015	JOINT MUD, GRAY, ALL, THROUGHOUT ENTIRE STRUCTURE	Gray Fibrous Homogeneous	50% MinWool 25% Glass	25.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-11B 162126233-0016	JOINT MUD, GRAY, ALL, THROUGHOUT ENTIRE STRUCTURE	Gray Fibrous Homogeneous	50% MinWool 25% Glass	25.0% Non-fibrous (Other)	None Detected
1305-11C 162126233-0017	JOINT MUD, GRAY, ALL, THROUGHOUT ENTIRE STRUCTURE	Gray Fibrous Homogeneous	50% MinWool 25% Glass	25.0% Non-fibrous (Other)	None Detected
1305-12 162126233-0018	PIPE WRAP, WHITE, ALL, THROUGHOUT ENTIRE STRUCTURE	Brown Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
1305-13 162126233-0019	FIBERGLASS PIPE INSULATION, YELLOW, ALL, THROUGHOUT ENTIRE STRUCTURE	Yellow Fibrous Homogeneous	95% Glass	5.0% Non-fibrous (Other)	None Detected
1305-14 162126233-0020	INSULATION, WHITE, B, SW ADMIN BUILDING - BOILER ROOM - WEIL MCCLAIN WATER HEATER	Gray Fibrous Homogeneous	45% Cellulose	5.0% Non-fibrous (Other)	50% Chrysotile
1305-15 162126233-0021	12"x12" FLOOR TILE, TAN PEBBLES, B, SW ADMIN BUILDING - STAIR LANDING	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-16 162126233-0022	FLOOR TILE ADHESIVE, CLEAR, B, SW ADMIN BUILDING - STAIR LANDING	Clear Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-17 162126233-0023	1'x1' CEILING TILE - DEEP GROOVES, WHITE, 2, SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR & STAIRS	Beige Fibrous Homogeneous	20% Cellulose 60% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-18 162126233-0024	CEILING TILE PUCK ADHESIVE, DARK BROWN, 2, SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR & STAIRS	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-19 162126233-0025	LINOLEUM FLOOR, TAN SQUARE, 2, SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR - ROOMS	Tan Fibrous Homogeneous	20% Cellulose	50.0% Non-fibrous (Other)	30% Chrysotile
1305-20 162126233-0026	LINOLEUM ADHESIVE, BLACK, 2, SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR - ROOMS	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-21 162126233-0027	CARPET ADHESIVE, YELLOW, 2, SW ADMIN BUILDING - HALLWAY UNDER CARPET 2ND LAYER	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-22 162126233-0028	FLOOR LEVELER, WHITE, 2, SW ADMIN BUILDING - HALLWAY UNDER CARPET 3RD LAYER	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-23 162126233-0029	FLOOR FELT, BLACK, 2, SW ADMIN BUILDING - HALLWAY UNDER CARPET 4TH LAYER	Black Fibrous Homogeneous	60% Cellulose	40.0% Non-fibrous (Other)	None Detected
1305-24 162126233-0030	FLOOR FELT, BROWN, 2, SW ADMIN BUILDING - HALLWAY UNDER CARPET 5TH LAYER ON CONCRETE	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-25 162126233-0031	CAULK, WHITE, 2, SW ADMIN BUILDING - HALLWAY UNDER CARPET 4TH LAYER	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-26 162126233-0032	GROUT, TAN, 1 & 2, SW ADMIN BUILDING - RESTROOMS CERAMIC TILES	White Non-Fibrous Homogeneous		25% Quartz 75.0% Non-fibrous (Other)	None Detected
1305-27 162126233-0033	COUNTERTOP, WHITE, 1 & 2, SW ADMIN BUILDING - RESTROOMS	Brown/White Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
1305-28 162126233-0034	COUNTERTOP ADHESIVE, WHITE, 2 & 2, SW ADMIN BUILDING - RESTROOMS	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-29 162126233-0035	COVE BASE, BLACK, ALL, THROUGHOUT ENTIRE STRUCTURE	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-30 162126233-0036	COVE BASE ADHESIVE, BROWN, ALL, THROUGHOUT ENTIRE STRUCTURE	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-31A 162126233-0037	SKIM COAT, WHITE, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-31B 162126233-0038	SKIM COAT, WHITE, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-31C 162126233-0039	SKIM COAT, WHITE, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-31D 162126233-0040	SKIM COAT, WHITE, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-32-Plaster 162126233-0041	PLASTER, GRAY, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-32-Plaster 162126233-0041A	PLASTER, GRAY, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-32-Plaster 162126233-0041B	PLASTER, GRAY, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-32-Plaster 162126233-0041C	PLASTER, GRAY, ALL, SW ADMIN BUILDING - WALLS & CEILINGS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-33 162126233-0042	DRYWALL, WHITE, ALL, SW ADMIN BUILDING - THROUGHOUT WALLS	Brown/White Fibrous Heterogeneous	25% Cellulose	65% Gypsum 10.0% Non-fibrous (Other)	None Detected
1305-34 162126233-0043	DRYWALL COMPOUND, WHITE, ALL, SW ADMIN BUILDING - THROUGHOUT WALLS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-35 162126233-0044	DRYWALL TAPE, WHITE, ALL, SW ADMIN BUILDING - THROUGHOUT WALLS	Brown Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
1305-36 162126233-0045	CEILING INSULATION, WHITE, 2, SW ADMIN BUILDING - CEILING	White Fibrous Homogeneous	95% Glass	5.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-37 162126233-0046	CEILING INSULATION, BROWN, 2, SW ADMIN BUILDING - CEILING	Brown Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	None Detected
1305-38 162126233-0047	LINOLEUM FLOOR, TAN SQUARES, 1, SW ADMIN BUILDING - THROUGHOUT ROOM	Tan Fibrous Homogeneous		50.0% Non-fibrous (Other)	50% Chrysotile
1305-39 162126233-0048	LINOLEUM ADHESIVE, BROWN, 1, SW ADMIN BUILDING - THROUGHOUT ROOM	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-40 162126233-0049	9"x9" FLOOR TILE, TAN, 1, SW ADMIN BUILDING - ROOM 27 UNDER LINOLEUM	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
1305-41 162126233-0050	9" FLOOR TILE MASTIC, BLACK, 1, SW ADMIN BUILDING - ROOM 27 UNDER LINOLEUM	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-42 162126233-0051	WALL PANEL ADHESIVE, YELLOW, 1, SW ADMIN BUILDING - HALLWAY	White/Yellow Non-Fibrous Homogeneous	5% Glass	95.0% Non-fibrous (Other)	None Detected
1305-43 162126233-0052	CAULK, WHITE, 1, SW ADMIN BUILDING - CEILING TILE WALL UNIONS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-44 162126233-0053	12"x12" FLOOR TILE, PURPLE, 1, BUILDING 2 - WAITING AREA	Purple Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-45 162126233-0054	12" FLOOR TILE MASTIC, BLACK, 1, BUILDING 2 - WAITING AREA	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Eric Lindeen Impact7G 9550 Hickman Road Suite 105 Clive, IA 50325	Phone: (515) 473-6256 Fax: (515) 528-8005 Received Date: 11/04/2021 9:30 AM Analysis Date: 11/05/2021 Collected Date: 11/01/2021
Project: City of Fort Dodge - 1305 N 22nd St, Fort Dodge, IA 50501 - Full ACM Inspection - BD_DW_SB - 11/1-2/2021	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-46 162126233-0055	9"x9" FLOOR TILE, TAN W/BROWN STREAKS, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Tan Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
1305-47 162126233-0056	9" FLOOR TILE MASTIC, BLACK, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-48A 162126233-0057	CEILING TEXTURE, WHITE, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Brown/White Fibrous Homogeneous		70.0% Non-fibrous (Other)	30% Chrysotile
1305-48B 162126233-0058	CEILING TEXTURE, WHITE, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Brown/White Fibrous Homogeneous		70.0% Non-fibrous (Other)	30% Chrysotile
1305-48C 162126233-0059	CEILING TEXTURE, WHITE, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Brown/White Fibrous Homogeneous		70.0% Non-fibrous (Other)	30% Chrysotile
1305-49 162126233-0060	12"x12" FLOOR TILE, BROWN, 1, BUILDING 2 - RESTROOMS	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-50-Mastic 162126233-0061	12" FLOOR TILE MASTIC, BLACK, 1, BUILDING 2 - RESTROOMS	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
Result includes a small amount of inseparable attached material					
1305-50-Debris 162126233-0061A	12" FLOOR TILE MASTIC, BLACK, 1, BUILDING 2 - RESTROOMS	Brown Non-Fibrous Homogeneous	5% Glass	15% Mica 78.0% Non-fibrous (Other)	2% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-51 162126233-0062	1'x1' CEILING TILE - SQUARES, WHITE, 1, BUILDING 3 - THROUGHOUT	White Fibrous Homogeneous	95% MinWool	5.0% Non-fibrous (Other)	None Detected
1305-52 162126233-0063	CEILING TILE PUCK ADHESIVE, BROWN, 1, BUILDING 3 - THROUGHOUT	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-53 162126233-0064	DRYWALL, WHITE, 1, BUILDING 3 - THROUGHOUT ABOVE 1'x1'	Brown/White Fibrous Heterogeneous	20% Cellulose	75% Gypsum 5.0% Non-fibrous (Other)	None Detected
1305-54-Linoleum 162126233-0065	LINOLEUM FLOOR - ROUNDED SQUARES, TAN/BROWN, 1, BUILDING 3 - PATIENT ROOMS	Tan Fibrous Heterogeneous	5% Cellulose	70.0% Non-fibrous (Other)	25% Chrysotile
1305-54-Mastic 162126233-0065A	LINOLEUM FLOOR - ROUNDED SQUARES, TAN/BROWN, 1, BUILDING 3 - PATIENT ROOMS	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-55 162126233-0066	12"x12" FLOOR TILE - PEBBLES, TAN & BROWN, 2, BUILDING 4 - 2ND FLOOR THROUGHOUT HALLWAYS & PATIENT ROOMS	Tan Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
1305-56 162126233-0067	12" FLOOR TILE MASTIC, BLACK, 2, BUILDING 4 - 2ND FLOOR THROUGHOUT HALLWAYS & PATIENT ROOMS	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-57 162126233-0068	LINOLEUM FLOOR - PEBBLES, BROWN & TAN, 2, BUILDING 4 - PATIENT ROOM, RESTROOMS	Brown/Tan Fibrous Heterogeneous	25% Cellulose 5% Synthetic 2% Glass	68.0% Non-fibrous (Other)	None Detected
1305-58 162126233-0069	LINOLEUM ADHESIVE, BROWN, 2, BUILDING 4 - PATIENT ROOM, RESTROOMS	Black/Yellow Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
1305-59A-Texture 162126233-0070	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 4 - PATIENT ROOMS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-59A-Tape 162126233-0070A	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 4 - PATIENT ROOMS	White Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
1305-59B-Texture 162126233-0071	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 4 - PATIENT ROOMS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-59B-Tape 162126233-0071A	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 4 - PATIENT ROOMS	White Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
1305-59C-Texture 162126233-0072	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 4 - PATIENT ROOMS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-59C-Tape 162126233-0072A	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 4 - PATIENT ROOMS	White Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-60 162126233-0073	WALL INSULATION, PINK, ALL, THROUGHOUT ENTIRE STRUCTURE	Pink Fibrous Homogeneous	98% Glass	2.0% Non-fibrous (Other)	None Detected
1305-61 162126233-0074	SINK INSULATION, GRAY, 1 & 2, BUILDING 3 & 4	Purple Non-Fibrous Homogeneous		97.0% Non-fibrous (Other)	3% Chrysotile
1305-62 162126233-0075	LINOLEUM FLOOR, GREEN, 1 & 2, BUILDING 4 - SELF CARE ROOMS	Green Non-Fibrous Homogeneous	5% Glass	95.0% Non-fibrous (Other)	None Detected
1305-63 162126233-0076	LINOLEUM ADHESIVE, BLACK, 1 & 2, BUILDING 4 - SELF CARE ROOMS	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
1305-64 162126233-0077	LINOLEUM ADHESIVE, BROWN, 1 & 2, BUILDING 4 - SELF CARE ROOMS	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-65 162126233-0078	DRYWALL, WHITE, 1 & 2, BUILDING 3 & 4 WALLS	Brown/White Fibrous Heterogeneous	50% Cellulose <1% Glass	45% Gypsum 5.0% Non-fibrous (Other)	None Detected
1305-66 162126233-0079	DRYWALL COMPOUND, WHITE, 1 & 2, BUILDING 3 & 4 WALLS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
1305-67 162126233-0080	DRYWALL TAPE, WHITE, 1 & 2, BUILDING 3 & 4 WALLS				Layer Not Present
1305-68 162126233-0081	MIRROR ADHESIVE, BLACK, 1 & 2, BUILDING 4 - CLOSET DOOR MIRRORS	Black Non-Fibrous Homogeneous		90.0% Non-fibrous (Other)	10% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-69A 162126233-0082	DUCT SEAM TAPE, WHITE, 1 & 2, BUILDING 3 & 4	Gray/White Fibrous Homogeneous	40% Cellulose	60.0% Non-fibrous (Other)	None Detected
1305-69B 162126233-0083	DUCT SEAM TAPE, WHITE, 1 & 2, BUILDING 3 & 4	Gray/White Fibrous Homogeneous	40% Cellulose	60.0% Non-fibrous (Other)	None Detected
1305-69C 162126233-0084	DUCT SEAM TAPE, WHITE, 1 & 2, BUILDING 3 & 4	Gray/White Fibrous Homogeneous	40% Cellulose	60.0% Non-fibrous (Other)	None Detected
1305-70A 162126233-0085	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 3 & 5	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-70B 162126233-0086	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 3 & 5	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-70C 162126233-0087	CEILING TEXTURE, WHITE, 1 & 2, BUILDING 3 & 5	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-71A-Texture 162126233-0088	WALL TEXTURE, WHITE, 1 & 2, BUILDING 3 & 6	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
1305-71A-Drywall 162126233-0088A	WALL TEXTURE, WHITE, 1 & 2, BUILDING 3 & 6	Brown/White Fibrous Heterogeneous	55% Cellulose <1% Glass	40% Gypsum 5.0% Non-fibrous (Other)	None Detected
1305-71B-Texture 162126233-0089	WALL TEXTURE, WHITE, 1 & 2, BUILDING 3 & 6	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile

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			% Fibrous	% Non-Fibrous	% Type
1305-71B-Mastic 162126233-0089A	WALL TEXTURE, WHITE, 1 & 2, BUILDING 3 & 6	Clear Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-71C-Texture 162126233-0090	WALL TEXTURE, WHITE, 1 & 2, BUILDING 3 & 6	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
1305-71C-Drywall 162126233-0090A	WALL TEXTURE, WHITE, 1 & 2, BUILDING 3 & 6	Brown/White Fibrous Heterogeneous	75% Cellulose <1% Glass	20% Gypsum 5.0% Non-fibrous (Other)	None Detected
1305-72 162126233-0091	WINDOW GLAZE, GRAY, 1 & 2, BUILDING 4 - PATIENT ROOMS	Gray Non-Fibrous Homogeneous		93.0% Non-fibrous (Other)	7% Chrysotile
1305-73 162126233-0092	2" CERAMIC TILES, WHITE, 1 & 2, BUILDING 4 - SHOWER ROOMS	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-74-Grout 162126233-0093	CERAMIC GROUT, GRAY, 1 & 2, BUILDING 4 - SHOWER ROOMS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-74-Thinset 162126233-0093A	CERAMIC GROUT, GRAY, 1 & 2, BUILDING 4 - SHOWER ROOMS	Gray Non-Fibrous Homogeneous		15% Quartz 85.0% Non-fibrous (Other)	None Detected
1305-75-Adhesive 162126233-0094	CERAMIC ADHESIVE, BROWN, 1 & 2, BUILDING 4 - SHOWER ROOMS	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-75-Joint Compound 162126233-0094A	CERAMIC ADHESIVE, BROWN, 1 & 2, BUILDING 4 - SHOWER ROOMS	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile

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1305-75-Drywall 162126233-0094B	CERAMIC ADHESIVE, BROWN, 1 & 2, BUILDING 4 - SHOWER ROOMS	Brown/White Fibrous Heterogeneous	80% Cellulose <1% Glass	15% Gypsum 5.0% Non-fibrous (Other)	None Detected
1305-76 162126233-0095	FIRE DOOR, WHITE, 1, BUILDING 4 - EMERGENCY GENERATOR ROOM	White Fibrous Homogeneous		88.0% Non-fibrous (Other)	10% Amosite 2% Chrysotile
1305-77 162126233-0096	CAULK, WHITE, 1, BUILDING 4 - EMERGENCY GENERATOR ROOM	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
Sample does not match description on COC					
1305-78 162126233-0097	MEMBRANE, BLACK, R, ADMIN BUILDING - TOP LAYER	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-79 162126233-0098	STYROFOAM, WHITE, R, ADMIN BUILDING - 2ND LAYER	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-80 162126233-0099	TAR, BLACK, R, ADMIN BUILDING - 3RD LAYER - BOTTOM ON WOOD	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-81 162126233-0100	PARAPET TAR, R, ADMIN BUILDING - ON BRICK	Black Fibrous Heterogeneous	15% Cellulose	85.0% Non-fibrous (Other)	None Detected
1305-82 162126233-0101	CAULK, LIGHT GRAY, R, ADMIN BUILDING - PARAPET CAP METAL STRIP	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-83 162126233-0102	CAULK, BLACK, R, ADMIN BUILDING - MEMBRANE SEAMS	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile

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EMSL Order: 162126233
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Eric Lindeen Impact7G 9550 Hickman Road Suite 105 Clive, IA 50325	Phone: (515) 473-6256 Fax: (515) 528-8005 Received Date: 11/04/2021 9:30 AM Analysis Date: 11/05/2021 Collected Date: 11/01/2021
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-84 162126233-0103	MEMBRANE, BLACK, R, BUILDING 2 - TOP LAYER	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-85 162126233-0104	STYROFOAM, WHITE, R, BUILDING 2 - 2ND LAYER	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-86 162126233-0105	TAR, BLACK, R, BUILDING 2 - 3RD LAYER ON CONCRETE	Black Fibrous Heterogeneous	20% Cellulose	80.0% Non-fibrous (Other)	None Detected
1305-87A 162126233-0106	STUCCO, GRAY, EXT, ADMIN BUILDING - EXTERIOR WALLS	Gray Non-Fibrous Homogeneous		15% Quartz 85.0% Non-fibrous (Other)	None Detected
1305-87B 162126233-0107	STUCCO, GRAY, EXT, ADMIN BUILDING - EXTERIOR WALLS	Gray Non-Fibrous Homogeneous		15% Quartz 85.0% Non-fibrous (Other)	None Detected
1305-87C 162126233-0108	STUCCO, GRAY, EXT, ADMIN BUILDING - EXTERIOR WALLS	Gray Non-Fibrous Homogeneous		15% Quartz 85.0% Non-fibrous (Other)	None Detected
1305-88 162126233-0109	TRANSITE FLUE, LIGHT GRAY, R, BUILDING 2 - ROOF TO INTERIOR	Gray Fibrous Homogeneous		80.0% Non-fibrous (Other)	15% Chrysotile 5% Crocidolite
1305-89 162126233-0110	TAR, GRAY, R, BUILDING 2 - ON TRANSITE FLUE	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-90 162126233-0111	CONDUIT TAR, BLACK/GRAY, R, THROUGHOUT ENTIRE STRUCTURE	Gray/Black Fibrous Homogeneous		97.0% Non-fibrous (Other)	3% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-91 162126233-0112	FLASHING, BLACK, R, BUILDING 2 - PARAPETS AND STICK UPS	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-92 162126233-0113	FLASHING ADHESIVE, YELLOW, R, BUILDING 2 - PARAPETS AND STICK UPS	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-93 162126233-0114	PARAPET TAR, BLACK, R, BUILDING 2 - PARAPETS AND STICK UPS	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-94 162126233-0115	TAR, GRAY/BLACK, R, BUILDING 2, 3, 4 - CONDUIT INLET BOXES	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-95 162126233-0116	MEMBRANE, BLACK, R, BUILDING 2 - TOP LAYER	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-96 162126233-0117	FIBERBOARD, BROWN, R, BUILDING 2 - LAYER 2	Brown/Black Fibrous Homogeneous	85% Cellulose	15.0% Non-fibrous (Other)	None Detected
1305-97 162126233-0118	STYROFOAM, WHITE, R, BUILDING 2 - LAYER 3	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-98 162126233-0119	ASPHALT, BLACK, R, BUILDING 2 - LAYER 4	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-99 162126233-0120	FIBERBOARD, BROWN, R, BUILDING 2 - LAYER 5	Brown Fibrous Homogeneous	90% Cellulose	10.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-100 162126233-0121	TAR, BLACK, R, BUILDING 2 - LAYER 6	Brown/Black Non-Fibrous Homogeneous	15% Cellulose	10% Perlite 75.0% Non-fibrous (Other)	None Detected
1305-101 162126233-0122	FIBERBOARD, BROWN, R, BUILDING 2 - LAYER 7	Brown Fibrous Homogeneous	90% Cellulose	10.0% Non-fibrous (Other)	None Detected
1305-102 162126233-0123	TAR, BLACK, R, BUILDING 2 - LAYER 8 BOTTOM LAYER ON CONCRETE	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-103 162126233-0124	MEMBRANE, BLACK, R, BUILDING 4 - TOP LAYER	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-104 162126233-0125	STYROFOAM, WHITE, R, BUILDING 4 - LAYER 2	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-105 162126233-0126	TAR, BLACK, R, BUILDING 4 - LAYER 3 BOTTOM ON CONCRETE	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-106 162126233-0127	FLASHING, BLACK, R, BUILDING 4 - ELEVATOR SHAFT	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-107 162126233-0128	FLASHING TAR, BLACK, R, BUILDING 4 - ELEVATOR SHAFT	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-108 162126233-0129	TAR, GRAY, R, BUILDING 4 - LARGE AC UNITS & ROUND VENTS	Gray Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-109 162126233-0130	PARAPET TAR, BLACK, R, BUILDING 4 - SMALL AC UNITS	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-110 162126233-0131	PROTRUSION TAR, BLACK, R, BUILDING 4 - PROTRUSIONS	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-111 162126233-0132	CONDUIT TAR, GRAY, R, BUILDING 4 - SMALL AC UNITS	Gray/Black Non-Fibrous Homogeneous		97.0% Non-fibrous (Other)	3% Chrysotile
1305-112 162126233-0133	CAULK, LIGHT GRAY, R, BUILDING 3 - RANDOMLY ON SEAMS	Gray/Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-113 162126233-0134	EXPANSION JOINT COMPOUND, GRAY, EXT, BUILDING 3 & 4 - UNIONS	Gray/Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-114 162126233-0135	WINDOW GLAZE, WHITE, EXT, BUILDING 4 - MAIN ENTRANCE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-115 162126233-0136	CAULK, WHITE, EXT, BUILDING 4 - MAIN ENTRANCE	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-116 162126233-0137	WINDOW GLAZE, WHITE, EXT, BUILDING 4 - PATIENT ROOMS	Tan/Black/Clear Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-117 162126233-0138	CAULK, WHITE, EXT, BUILDING 4 - PATIENT ROOM FRAMES	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-118 162126233-0139	CAULK, WHITE, EXT, BUILDING 3 - EMERGENCY GENERATOR ROOM VENT	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-119A 162126233-0140	STUCCO, GRAY, EXT, BUILDING 2 & 3 EXTERIOR WALLS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-119B 162126233-0141	STUCCO, GRAY, EXT, BUILDING 2 & 3 EXTERIOR WALLS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-119C 162126233-0142	STUCCO, GRAY, EXT, BUILDING 2 & 3 EXTERIOR WALLS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
1305-120 162126233-0143	CAULK, GRAY, EXT, BUILDING 3 - WINDOW FRAMES	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-121 162126233-0144	WINDOW GLAZE, WHITE, EXT, BUILDING 2 - WINDOWS	Gray/Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-122 162126233-0145	WINDOW GLAZE, WHITE, EXT, ADMIN BUILDING - WINDOWS	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
1305-123 162126233-0146	PANEL, RED, EXT, BUILDING 2 NORTHWEST ENTRANCE	Brown Fibrous Homogeneous	95% Cellulose	5.0% Non-fibrous (Other)	None Detected
1305-124 162126233-0147	CAULK, WHITE, EXT, BUILDING 2 - NORTHWEST ENTRANCE DOOR FRAMES	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-125 162126233-0148	MEMBRANE, BLACK, EXT, ADMIN BUILDING - WEST ENTRANCE OVERHANG TOP	Black Fibrous Homogeneous	15% Synthetic	85.0% Non-fibrous (Other)	None Detected
1305-126 162126233-0149	MEMBRANE, BLACK, EXT, ADMIN BUILDING - WEST ENTRANCE OVERHANG LAYER 2	Black Fibrous Homogeneous	40% Glass	60.0% Non-fibrous (Other)	None Detected
1305-127 162126233-0150	TAR, BLACK, EXT, ADMIN BUILDING - WEST ENTRANCE OVERHANG LAYER 3	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-128 162126233-0151	TAR PAPER, BLACK, EXT, ADMIN BUILDING - WEST ENTRANCE OVERHANG LAYER 4	Black Fibrous Homogeneous	60% Cellulose	25.0% Non-fibrous (Other)	15% Chrysotile
1305-129 162126233-0152	TAR, BLACK, EXT, ADMIN BUILDING - WEST ENTRANCE OVERHANG PERIMETER	Black Fibrous Homogeneous	15% Cellulose	85.0% Non-fibrous (Other)	None Detected
1305-130 162126233-0153	LINOLEUM FLOOR, TAN W/BUE SPECKS, 1, BUILDING 3 - HALLWAYS	Beige Non-Fibrous Homogeneous	5% Glass	95.0% Non-fibrous (Other)	None Detected
1305-131A 162126233-0154	CEILING TEXTURE, WHITE, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Tan Non-Fibrous Homogeneous		5% Mica 93.0% Non-fibrous (Other)	2% Chrysotile
1305-131B 162126233-0155	CEILING TEXTURE, WHITE, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Tan Non-Fibrous Homogeneous		5% Mica 93.0% Non-fibrous (Other)	2% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1305-131C 162126233-0156	CEILING TEXTURE, WHITE, 1, BUILDING 2 - HALLWAY & PATIENT ROOMS	Tan Non-Fibrous Homogeneous		5% Mica 93.0% Non-fibrous (Other)	2% Chrysotile
1305-132 162126233-0157	1'x1' CEILING TILE - GROOVES, WHITE, 1, BUILDING 3 - SUN ROOM	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
1305-133 162126233-0158	CEILING TILE PUCK ADHESIVE, BROWN, 1, BUILDING 3 - SUN ROOM	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-134 162126233-0159	12"x12" FLOOR TILE, TAN W/LINES, 1, BUILDING 3 - STORAGE BY NORTH ENTRANCE	Tan Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
1305-135 162126233-0160	12"x12" FLOOR TILE, BROWN SQUARES, 1, BUILDING 3 - STORAGE BY NORTH ENTRANCE	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
1305-136 162126233-0161	TAR, BLACK, R, BUILDING 3 & 4 ROOF UNIONS	Black Non-Fibrous Homogeneous		95.0% Non-fibrous (Other)	5% Chrysotile

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from: 11/05/2021 16:28:27



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250
Tel/Fax: (317) 803-2997 / (317) 803-3047
<http://www.EMSL.com> / indianapolislaboratory@emsl.com

EMSL Order: 162126233
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Eric Lindeen
Impact7G
9550 Hickman Road
Suite 105
Clive, IA 50325
Project: City of Fort Dodge - 1305 N 22nd St, Fort Dodge, IA 50501 - Full ACM Inspection - BD_DW_SB - 11/1-2/2021


Phone: (515) 473-6256
Fax: (515) 528-8005
Received Date: 11/04/2021 9:30 AM
Analysis Date: 11/05/2021
Collected Date: 11/01/2021


The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

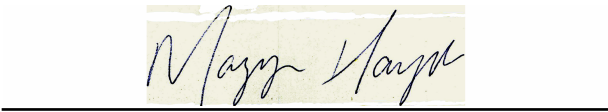
Report Comments:

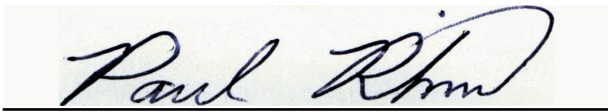
Sample Receipt Date: 11/04/2021 Sample Receipt Time: 9:30 AM
Analysis Completed Date: 11/05/2021 Analysis Completed Time: 3:46 PM

Analyst(s):



Alexa Penna Waterman PLM (63)


Lauren Welch PLM (18)


Maggie Hayden PLM (30)


Paul Rihm PLM (64)

Samples Reviewed and approved by:


Asbestos Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262

Initial report from: 11/05/2021 16:28:27



Asbestos Chain of Custody EMSL Order Number
(Lab Use Only)

6340 Castleplace Dr.
Indianapolis, IN 46250
Phone: (317)803-2997
Fax: (317)803-3047

EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS • TRAINING

162126233

Company: **IMPACT7G** **EMSL – Bill to: Same**
 Street: **9550 Hickman Rd Suite 105** *Third Party Billing requires written authorization from third party*
 City: **Clive** State: **IA** Zip Code: **50325** Country: **USA**
 Report To: **Eric Lindeen** Phone: **515-685-2299** Fax: **515-685-2236**
 Email Address: **elindeen@impact7g.com** Please Provide results: **EMAIL**
 Project Name: **City of Fort Dodge-1305 N 22nd St, Fort Dodge, IA 50501-Full ACM Inspection - BD_DW_SB - 11/1-2/2021**

US State Samples Taken: **IA**

Turnaround Time (TAT) Options

3-Hour 6-Hour 24-Hour 32-Hour 48 -Hour 72-Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 hr TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytic Price Guide

PLM – BULK (reporting limit) TEM – Air 4-4.5hr TAT (AHERA only)
 PLM EPA 600/R-93/116 (<1%) AHERA 40 CFR, Part 763

Sampler Names: **Brad Davison** Sampler Signature: *Brad Davison*

Check for Positive Stop – Clearly Identify Homogeneous Group Filter Pore Size (Air Samples): .8 µm 15 µm

Sample ID	Sample Material/Description	Color	Floor	Location	Sample Date
1305-01 ABC	DUCT SEAM TAPE	WHITE	ALL	SW ADMIN BUILDING - ON DUCT THROUGHOUT WALLS& BASEMENT	11/1-2/2021
1305-02	9" x 9" FLOOR TILE	BROWN	B	SW ADMIN BUILDING - STORAGE & CAB ROOM	11/1-2/2021
1305-03	9" FLOOR TILE MASTIC	BLACK	B	SW ADMIN BUILDING - STORAGE & CAB ROOM	11/1-2/2021
1305-04	9" x 9" FLOOR TILE	TAN	B	SW ADMIN BUILDING - STORAGE & CAB ROOM	11/1-2/2021
1305-05	9" FLOOR TILE MASTIC	BLACK	B	SW ADMIN BUILDING - STORAGE & CAB ROOM	11/1-2/2021
1305-06	CARPET ADHESIVE	YELLOW	B	SW ADMIN BUILDING -SOUTH STORAGE ROOM	11/1-2/2021
1305-07	2' X 4' CEILING TILE - PINS & GROOVES	WHITE	B	SW ADMIN BUILDING -SOUTH STORAGE ROOM	11/1-2/2021
1305-08	1' X 1' CEILING TILE -PINS	WHITE	B	SW ADMIN BUILDING -SOUTH STORAGE ROOM	11/1-2/2021
1305-09	WALL PANEL ADHESIVE	BLACK	B	SW ADMIN BUILDING -SOUTH STORAGE ROOM	11/1-2/2021
1305-10 ABC	JOINT WRAP	GRAY	ALL	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-11 ABC	JOINT MUD	GRAY	ALL	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-12	PIPE WRAP	WHITE	ALL	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-13	FIBERGLASS PIPE INSULATION	YELLOW	ALL	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-14	INSULATION	WHITE	B	SW ADMIN BUILDING - BOILER ROOM - WEIL MCCLAIN WATER HEATER	11/1-2/2021
1305-15	12" X 12" FLOOR TILE	TAN PEBBLES	B	SW ADMIN BUILDING - STAIR LANDING	11/1-2/2021
1305-16	FLOOR TILE ADHESIVE	CLEAR	B	SW ADMIN BUILDING - STAIR LANDING	11/1-2/2021
1305-17	1' X 1' CEILING TILE - DEEP GROOVES	WHITE	2	SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR & STAIRS	11/1-2/2021
1305-18	CEILING TILE PUCK ADHESIVE	DARK BROWN	2	SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR & STAIRS	11/1-2/2021
1305-19	LINOLEUM FLOOR	TAN SQUARE	2	SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR - ROOMS	11/1-2/2021
1305-20	LINOLEUM ADHESIVE	BLACK	2	SW ADMIN BUILDING - THROUGHOUT 2ND FLOOR - ROOMS	11/1-2/2021
1305-21	CARPET ADHESIVE	YELLOW	2	SW ADMIN BUILDING - HALLWAY UNDER CARPET 2ND LAYER	11/1-2/2021
1305-22	FLOOR LEVELER	WHITE	2	SW ADMIN BUILDING - HALLWAY UNDER CARPET 3RD LAYER	11/1-2/2021
1305-23	FLOOR FELT	BLACK	2	SW ADMIN BUILDING - HALLWAY UNDER CARPET 4TH LAYER	11/1-2/2021
1305-24	FLOOR FELT ADHESIVE	BROWN	2	SW ADMIN BUILDING - HALLWAY UNDER CARPET 5TH LAYER ON CONCRETE	11/1-2/2021

1305-25	CAULK	WHITE	2	SW ADMIN BUILDING - HALLWAY UNDER CARPET 4TH LAYER	11/1-2/2021
1305-26	GROUT	TAN	1 & 2	SW ADMIN BUILDING - RESTROOMS CERAMIC TILES	11/1-2/2021
1305-27	COUNTERTOP	WHITE	2 & 2	SW ADMIN BUILDING - RESTROOMS	11/1-2/2021
1305-28	COUNTERTOP ADHESIVE	WHITE	1 & 2	SW ADMIN BUILDING - RESTROOMS	11/1-2/2021
1305-29	COVE BASE	BLACK	ALL	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-30	COVE BASE ADHESIVE	BROWN	ALL	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-31 ABCD	SKIM COAT	WHITE	ALL	SW ADMIN BUILDING - WALLS & CEILINGS	11/1-2/2021
1305-32	PLASTER	GRAY	ALL	SW ADMIN BUILDING - WALLS & CEILINGS	11/1-2/2021
1305-33	DRYWALL	WHITE	ALL	SW ADMIN BUILDING - THROUGHOUT WALLS	11/1-2/2021
1305-34	DRYWALL COMPOUND	WHITE	ALL	SW ADMIN BUILDING - THROUGHOUT WALLS	11/1-2/2021
1305-35	DRYWALL TAPE	WHITE	ALL	SW ADMIN BUILDING - THROUGHOUT WALLS	11/1-2/2021
1305-36	CEILING INSULATION	WHITE	2	SW ADMIN BUILDING - CEILING	11/1-2/2021
1305-37	CEILING INSULATION	BROWN	2	SW ADMIN BUILDING - CEILING	11/1-2/2021
1305-38	LINOLEUM FLOOR	TAN SQUARES	1	SW ADMIN BUILDING - THROUGHOUT ROOM	11/1-2/2021
1305-39	LINOLEUM ADHESIVE	BROWN	1	SW ADMIN BUILDING - THROUGHOUT ROOM	11/1-2/2021
1305-40	9" X 9" FLOOR TILE	TAN	1	SW ADMIN BUILDING - ROOM 27 UNDER LINOLEUM	11/1-2/2021
1305-41	9" FLOOR TILE MASTIC	BLACK	1	SW ADMIN BUILDING - ROOM 27 UNDER LINOLEUM	11/1-2/2021
1305-42	WALL PANEL ADHESIVE	YELLOW	1	SW ADMIN BUILDING - HALLWAY	11/1-2/2021
1305-43	CAULK	WHITE	1	SW ADMIN BUILDING - CEILING TILE WALL UNIONS	11/1-2/2021
1305-44	12" X 12" FLOOR TILE	PURPLE	1	BUILDING 2 - WAITING AREA	11/1-2/2021
1305-45	12" FLOOR TILE MASTIC	BLACK	1	BUILDING 2 - WAITING AREA	11/1-2/2021
1305-46	9" X 9" FLOOR TILE	TAN W/BROWN STREAKS	1	BUILDING 2 - HALLWAY & PATIENT ROOMS	11/1-2/2021
1305-47	9" FLOOR TILE MASTIC	BLACK	1	BUILDING 2 - HALLWAY & PATIENT ROOMS	11/1-2/2021
1305-48 ABC	CEILING TEXTURE	WHITE	1	BUILDING 2 - HALLWAY & PATIENT ROOMS	11/1-2/2021
1305-49	12" X 12" FLOOR TILE	BROWN	1	BUILDING 2 - RESTROOMS	11/1-2/2021
1305-50	12" FLOOR TILE MASTIC	BLACK	1	BUILDING 2 - RESTROOMS	11/1-2/2021
1305-51	1' X 1' CEILING TILE - SQUARES	WHITE	1	BUILDING 3 - THROUGHOUT	11/1-2/2021
1305-52	CEILING TILE PUCK ADHESIVE	BROWN	1	BUILDING 3 - THROUGHOUT	11/1-2/2021
1305-53	DRYWALL	WHITE	1	BUILDING 3 - THROUGHOUT ABOVE 1' X 1'	11/1-2/2021
1305-54	LINOLEUM FLOOR - ROUNDED SQUARES	TAN/BROWN	1	BUILDING 3 - PATIENT ROOMS	11/1-2/2021
1305-55	12" X 12" FLOOR TILE - PEBBLES	TAN & BROWN	2	BUILDING 4 - 2ND FLOOR THROUGHOUT HALLWAYS & PATIENT ROOMS	11/1-2/2021
1305-56	12" FLOOR TILE MASTIC	BLACK	2	BUILDING 4 - 2ND FLOOR THROUGHOUT HALLWAYS & PATIENT ROOMS	11/1-2/2021
1305-57	LINOLEUM FLOOR - PEBBLES	BROWN & TAN	2	BUILDING 4 - PATIENT ROOM, RESTROOMS	11/1-2/2021
1305-58	LINOLEUM ADHESIVE	BROWN	2	BUILDING 4 - PATIENT ROOM, RESTROOMS	11/1-2/2021
1305-59 ABC	CEILING TEXTURE	WHITE	1 & 2	BUILDING 4 - PATIENT ROOMS	11/1-2/2021
1305-60	WALL INSULATION	PINK	ALL	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-61	SINK INSULATION	GRAY	1 & 2	BUILDING 3 & 4	11/1-2/2021
1305-62	LINOLEUM FLOOR	GREEN	1 & 2	BUILDING 4 - SELF CARE ROOMS	11/1-2/2021
1305-63	LINOLEUM ADHESIVE	BLACK	1 & 2	BUILDING 4 - SELF CARE ROOMS	11/1-2/2021
1305-64	LINOLEUM ADHESIVE	BROWN	1 & 2	BUILDING 4 - SELF CARE ROOMS	11/1-2/2021
1305-65	DRYWALL	WHITE	1 & 2	BUILDING 3 & 4 WALLS	11/1-2/2021

1305-66	DRYWALL - COMPOUND	WHITE	1& 2	BUILDING 3 & 4 WALLS	11/1-2/2021
1305-67	DRYWALL - TAPE	WHITE	1& 2	BUILDING 3 & 4 WALLS	11/1-2/2021
1305-68	MIRROR ADHESIVE	BLACK	1& 2	BUILDING 4 - CLOSET DOOR MIRRORS	11/1-2/2021
1305-69 ABC	DUCT SEAM TAPE	WHITE	1& 2	BUILDING 3 & 4	11/1-2/2021
1305-70 ABC	CEILING TEXTURE	WHITE	1& 2	BUILDING 3 & 5	11/1-2/2021
1305-71 ABC	WALL TEXTURE	WHITE	1& 2	BUILDING 3 & 6	11/1-2/2021
1305-72	WINDOW GLAZE	GRAY	1& 2	BUILDING 4 - PATIENT ROOMS	11/1-2/2021
1305-73	2" CERAMIC TILES	WHITE	1& 2	BUILDING 4 - SHOWER ROOMS	11/1-2/2021
1305-74	CERAMIC GROUT	GRAY	1& 2	BUILDING 4 - SHOWER ROOMS	11/1-2/2021
1305-75	CERAMIC ADHESIVE	BROWN	1& 2	BUILDING 4 - SHOWER ROOMS	11/1-2/2021
1305-76	FIRE DOOR	WHITE	1	BUILDING 4 - EMERGENCY GENERATOR ROOM	11/1-2/2021
1305-77	CAULK	WHITE	1	BUILDING 4 - EMERGENCY GENERATOR ROOM	11/1-2/2021
1305-78	MEMBRANE	BLACK	R	ADMIN BUILDING - TOP LAYER	11/1-2/2021
1305-79	STYROFOAM	WHITE	R	ADMIN BUILDING - 2ND LAYER	11/1-2/2021
1305-80	TAR	BLACK	R	ADMIN BUILDING - 3RD LAYER - BOTTOM ON WOOD	11/1-2/2021
1305-81	PARAPET TAR		R	ADMIN BUILDING - ON BROCK	11/1-2/2021
1305-82	CAULK	LIGHT GRAY	R	ADMIN BUILDING - PARAPET CAP METAL STRIP	11/1-2/2021
1305-83	CAULK	BLACK	R	ADMIN BUILDING - MEMBRANE SEAMS	11/1-2/2021
1305-84	MEMBRANE	BLACK	R	BUILDING 2 - TOP LAYER	11/1-2/2021
1305-85	STYROFOAM	WHITE	R	BUILDING 2 - 2ND LAYER	11/1-2/2021
1305-86	TAR	BLACK	R	BUILDING 2 - 3RD LAYER ON CONCRETE	11/1-2/2021
1305-87 ABC	STUCCO	GRAY	EXT	ADMIN BUILDING - EXTERIOR WALLS	11/1-2/2021
1305-88	TRANSITE FLUE	LIGHT GRAY	R	BUILDING 2 - ROOF TO INTERIOR	11/1-2/2021
1305-89	TAR	GRAY	R	BUILDING 2 - ON TRANSITE FLUE	11/1-2/2021
1305-90	CONDUIT TAR	BLACK/GRAY	R	THROUGHOUT ENTIRE STRUCTURE	11/1-2/2021
1305-91	FLASHING	BLACK	R	BUILDING 2 - PARAPETS & STICK UPS	11/1-2/2021
1305-92	FLASHING ADHESIVE	YELLOW	R	BUILDING 2 - PARAPETS & STICK UPS	11/1-2/2021
1305-93	PARAPET TAR	BLACK	R	BUILDING 2 - PARAPETS & STICK UPS	11/1-2/2021
1305-94	TAR	GRAY/BLACK	R	BUILDING 2,3,4 - CONDUIT INLET BOXES	11/1-2/2021
1305-95	MEMBRANE	BLACK	R	BUILDING 2 - TOP LAYER	11/1-2/2021
1305-96	FIBERBOARD	BROWN	R	BUILDING 2 - LAYER 2	11/1-2/2021
1305-97	STYROFOAM	WHITE	R	BUILDING 2 - LAYER 3	11/1-2/2021
1305-98	ASPHALT	BLACK	R	BUILDING 2 - LAYER 4	11/1-2/2021
1305-99	FIBER BOARD	BROWN	R	BUILDING 2 - LAYER 5	11/1-2/2021
1305-100	TAR	BLACK	R	BUILDING 2 - LAYER 6	11/1-2/2021
1305-101	FIBERBOARD	BROWN	R	BUILDING 2 - LAYER 7	11/1-2/2021
1305-102	TAR	BLACK	R	BUILDING 2 - LAYER 8 BOTTOM LAYER ON CONCRETE	11/1-2/2021
1305-103	MEMBRANE	BLACK	R	BUILDING 4 - TOP LAYER	11/1-2/2021
1305-104	STYROFOAM	WHITE	R	BUILDING 4 - LAYER 2	11/1-2/2021
1305-105	TAR	BLACK	R	BUILDING 4 - LAYER 3 BOTTOM ON CONCRETE	11/1-2/2021
1305-106	FLASHING	BLACK	R	BUILDING 4 - ELEVATOR SHAFT	11/1-2/2021
1305-107	FLASHING TAR	BLACK	R	BUILDING 4 - ELEVATOR SHAFT	11/1-2/2021
1305-108	TAR	GRAY	R	BUILDING 4 - LARGE AC UNITS & ROUND VENTS	11/1-2/2021

1305-109	PARAPET TAR	BLACK	R	BUILDING 4 - SMALL AC UNITS	11/1-2/2021
1305-110	PROTRUSION TAR	BLACK	R	BUILDING 4 - PROTRUSIONS	11/1-2/2021
1305-111	CONDUIT TAR	GRAY	R	BUILDING 4 - SMALL AC UNITS	11/1-2/2021
1305-112	CAULK	LIGHT GRAY	R	BUILDING 3 - RANDOMLY ON SEAMS	11/1-2/2021
1305-113	EXPANSION JOINT COMPOUND	GRAY	EXT	BUILDING 3 & 4 - UNIONS	11/1-2/2021
1305-114	WINDOW GLAZE	WHITE	EXT	BUILDING 4 - MAIN ENTRANCE	11/1-2/2021
1305-115	CAULK	WHITE	EXT	BUILDING 4 - MAIN ENTRANCE	11/1-2/2021
1305-116	WINDOW GLAZE	WHITE	EXT	BUILDING 4 - PATIENT ROOMS	11/1-2/2021
1305-117	CAULK	WHITE	EXT	BUILDING 4 - PATIENT ROOM FRAMES	11/1-2/2021
1305-118	CAULK	WHITE	EXT	BUILDING 3 - EMERGENCY GENERATOR ROOM VENT	11/1-2/2021
1305-119 ABC	STUCCO	GRAY	EXT	BUILDING 2 & 3 EXTERIOR WALLS	11/1-2/2021
1305-120	CAULK	GRAY	EXT	BUILDING 3 - WINDOW FRAMES	11/1-2/2021
1305-121	WINDOW GLAZE	WHITE	EXT	BUILDING 2 - WINDOWS	11/1-2/2021
1305-122	WINDOW GLAZE	WHITE	EXT	ADMIN BUILDING - WINDOWS	11/1-2/2021
1305-123	PANEL	RED	EXT	BUILDING 2 - NORTH WEST ENTRANCE	11/1-2/2021
1305-124	CAULK	WHITE	EXT	BUILDING 2 - NORTH WEST ENTRANCE DOOR FRAMES	11/1-2/2021
1305-125	MEMBRANE	BLACK	EXT	ADMIN BUILDING - WEST ENTRANCE OVERHANG TOP	11/1-2/2021
1305-126	MEMBRANE	BLACK	EXT	ADMIN BUILDING - WEST ENTRANCE OVERHANG LAYER 2	11/1-2/2021
1305-127	TAR	BLACK	EXT	ADMIN BUILDING - WEST ENTRANCE OVERHANG LAYER 3	11/1-2/2021
1305-128	TAR PAPER	BLACK	EXT	ADMIN BUILDING - WEST ENTRANCE OVERHANG LAYER 4	11/1-2/2021
1305-129	TAR	BLACK	EXT	ADMIN BUILDING - WEST ENTRANCE OVERHANG PARAMETER	11/1-2/2021
1305-130	LINOLEUM FLOOR	TAN W/BLUE SPECKS	1	BUILDING 3 - HALLWAYS	11/1-2/2021
1305-131 ABC	CEILING TEXTURE	WHITE	1	BUILDING 2 - HALLWAY & PATIENT ROOMS	11/1-2/2021
1305-132	1' X 1' CEILING TILE - GROOVES	WHITE	1	BUILDING 3 - SUN ROOM	11/1-2/2021
1305-133	CEILING TILE PUCK ADHESIVE	BROWN	1	BUILDING 3 - SUN ROOM	11/1-2/2021
1305-134	12" X 12" FLOOR TILE	TAN W/LINES	1	BUILDING 3 - STORAGE BY NORTH ENTRANCE	11/1-2/2021
1305-135	12" X 12" FLOOR TILE	BROWN SQUARES	1	BUILDING 3 - STORAGE BY NORTH ENTRANCE	11/1-2/2021
1305-136	TAR	BLACK	R	BUILDING 3 & 4 ROOF UNIONS	11/1-2/2021

Relinquished (Client):	Impact7G	Date:	11/3/2021	Time:	1700
Received (Lab):	<i>DBingham Burn</i>	Date:	<i>11-4-21</i>	Time:	<i>9:30AM</i>
Comments/Special Instructions:	Test All Layers Please <i>FX</i>				



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162304227
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn Impact7G 8951 Windsor Parkway Johnston, IA 50131	Phone: (515) 468-1105 Fax: (515) 528-8005 Received Date: 02/27/2023 9:01 AM Analysis Date: 02/28/2023 Collected Date:
Project: FD-BROWNFIELD CLEANUP-1305 N 22ND STREET CONFIRMATION	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
32B 162304227-0001	PLASTER, GREY, 1&2, ADMIN BUILDING ROOM 27, 1ST FLOOR HALLWAY WALL/CEILINGS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
32C 162304227-0002	PLASTER, GREY, 1&2, ADMIN BUILDING ROOM 27, 1ST FLOOR HALLWAY WALL/CEILINGS	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
136 162304227-0003	CAULK, BEIGE, EXT., BUILDING 3 BLOCKED OVER DOORWAY WEST SIDE	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
137 162304227-0004	CAULK, BEIGE, EXT., BUILDING 3 DOOR TO EXTERIOR ROOM	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
138A 162304227-0005	SKIM COAT, GREY, EXT., BUILDING 3 LOWER WALL	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
138B 162304227-0006	SKIM COAT, GREY, EXT., BUILDING 3 LOWER WALL	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
138C 162304227-0007	SKIM COAT, GREY, EXT., BUILDING 3 LOWER WALL	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
139A 162304227-0008	STUCCO, GREY, EXT., BUILDING 2	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
139B 162304227-0009	STUCCO, GREY, EXT., BUILDING 2	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected

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EMSL Order: 162304227
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn Impact7G 8951 Windsor Parkway Johnston, IA 50131	Phone: (515) 468-1105 Fax: (515) 528-8005 Received Date: 02/27/2023 9:01 AM Analysis Date: 02/28/2023 Collected Date:
Project: FD-BROWNFIELD CLEANUP-1305 N 22ND STREET CONFIRMATION	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
139C 162304227-0010	STUCCO, GREY, EXT., BUILDING 2	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
141A 162304227-0011	SKIM COAT, BEIGE, EXT., ADMIN BUILDING TRIM	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
141B 162304227-0012	SKIM COAT, BEIGE, EXT., ADMIN BUILDING TRIM	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
141C 162304227-0013	SKIM COAT, BEIGE, EXT., ADMIN BUILDING TRIM	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
142 162304227-0014	CAULK, WHITE, EXT., ADMIN WEST ENTRY DOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
143 162304227-0015	WALL CAULK, WHITE, EXT., BUILDING 4 2ND FLOOR WALL	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
144 162304227-0016	FLASHING CAULK, BEIGE, R, BUILDING 3 ROOF TO BUILDING 4 WALL	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
145 162304227-0017	FLASHING CAULK, BLACK, R, BUILDING 3 ROOF TO BUILDING 4 WALL	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
146 162304227-0018	CAULK, WHITE, R, BUILDING 3 EXHAUST FAN	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
147 162304227-0019	CAULK, BLACK, R, BUILDING 3 EXHAUST FAN	Black Non-Fibrous Homogeneous	5% Cellulose	95.0% Non-fibrous (Other)	None Detected
148 162304227-0020	CAULK, BEIGE, R, BUILDING 3 VENT	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
149 162304227-0021	FLASHING CAULK, GREY,R, BUILDING 2 ROOF TO ADMIN WALL	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
150 162304227-0022	FLASHING CAULK, BLACK, R, BUILDING 2 ROOF TO ADMIN WALL	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
151 162304227-0023	FLASHING TAR, BLACK, R, BUILDING 2 ROOF ADMIN WALL	Black Non-Fibrous Homogeneous		97.0% Non-fibrous (Other)	3% Chrysotile
152 162304227-0024	FLASHING ADHESIVE, YELLOW, R, BUILDING 2 ROOF TO ADMIN WALL	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
153 162304227-0025	FLOORING (LOWER LAYER), BROWN, 2, ADMIN HALLWAY	Tan Fibrous Heterogeneous	30% Cellulose	70.0% Non-fibrous (Other)	None Detected
154 162304227-0026	TAR PAPER, BLACK, 2, ADMIN HALLWAY	Black Non-Fibrous Homogeneous	40% Cellulose	60.0% Non-fibrous (Other)	None Detected
155 162304227-0027	COVE BASE, BROWN, 1, ADMIN ROOM 27	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
156 162304227-0028	COVE BASE, MAROON, 1, ADMIN DIETICIANS OFFICE	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
157 162304227-0029	FIRE CAULK, RED, B, ADMIN LAUNDRY ROOM	Red Non-Fibrous Homogeneous	2% Glass	98.0% Non-fibrous (Other)	None Detected
158A 162304227-0030	PLASTER, BEIGE, 1, BUILDING 2 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
158B 162304227-0031	PLASTER, BEIGE, 1, BUILDING 2 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
158C 162304227-0032	PLASTER, BEIGE, 1, BUILDING 2 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
159A 162304227-0033	SKIM COAT, WHITE, 1, BUILDING 2 THROUGHOUT	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
159B 162304227-0034	SKIM COAT, WHITE, 1, BUILDING 2 THROUGHOUT	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
159C 162304227-0035	SKIM COAT, WHITE, 1, BUILDING 2 THROUGHOUT	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
160 162304227-0036	LINOLEUM, TAN BROWN PEBBLE, 1, BUILDING 2 PATIENT BATHROOM	Tan Fibrous Heterogeneous	20% Cellulose	80.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
161 162304227-0037	2'x2' CEILING TILE, HOLE/GOUGE, GREY, 1, BUILDING 2 THROUGHOUT	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
162 162304227-0038	2'x2' CEILING TILE, PIN/GOUGE, GREY, 1, BUILDING 2 THROUGHOUT	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
163 162304227-0039	CERAMIC TILE MASTIC, YELLOW, 1, BUILDING 2 BATHROOMS	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
164 162304227-0040	COVE BASE, MARRON, 1, BUILDING 2 HALLWAY	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
165 162304227-0041	COVE BASE, BEIGE, 1, BUILDING 2 HALLWAY	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
166 162304227-0042	COVE BASE MASTIC, BLACK, 1, BUILDING 2 PATIENT ROOM	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
167 162304227-0043	COVE BASE MASTIC, BROWN, 1, BUILDING 2 THROUGHOUT	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
168 162304227-0044	COVE BASE, BEIGE, 1, BUILDING 2PATIENT ROOM	Beige Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
169 162304227-0045	12"x12" FLOOR TILE, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
170 162304227-0046	FLOOR TILE MASTIC, YELLOW, 1, BUILDING 3 THROUGHOUT	Yellow Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
171 162304227-0047	COVE BASE, BROWN, 1, BUILDING 3 THROUGHOUT	Brown Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
172 162304227-0048	LINOLEUM MASTIC, BLACK, 1, BUILDING 3 HALLWAY	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
173 162304227-0049	DIAMOND CABINET LINOLEUM, BEIGE, 1, BUILDING 3 DRUG STORAGE ROOMS	Black/Beige Fibrous Heterogeneous	20% Cellulose	80.0% Non-fibrous (Other)	None Detected
174 162304227-0050	ANGLED BRICK CABINET LINOLEUM, BEIGE, 1, BUILDING 3 DRUG STORAGE ROOMS	Tan Fibrous Heterogeneous	20% Cellulose 5% Glass	75.0% Non-fibrous (Other)	None Detected
175 162304227-0051	COVE BASE, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
176 162304227-0052	COVE BASE MASTIC, WHITE, 1, BUILDING 3 THROUGHOUT	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
177 162304227-0053	12"x12" FLOOR TILE, RED, 1, BUILDING 3 SUN ROOM	Red Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
178 162304227-0054	12"x12" FLOOR TILE, OLIVE, 1, BUILDING 3 SUN ROOM	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
179 162304227-0055	2'x4' CEILING TILE PIN/HOLE, GREY, 1, BUILDING 3 THROUGHOUT	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
180 162304227-0056	2'x4' CEILING TILE PIN/GOUGE, GREY, 1, BUILDING 3 THROUGHOUT	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
181 162304227-0057	2'x2' CEILING TILE PIN/GOUGE, GREY, 1, BUILDING 3 THROUGHOUT	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
182A 162304227-0058	PLASTER, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
182B 162304227-0059	PLASTER, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
182C 162304227-0060	PLASTER, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
183A 162304227-0061	SKIM COAT, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
183B 162304227-0062	SKIM COAT, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected
183C 162304227-0063	SKIM COAT, GREY, 1, BUILDING 3 THROUGHOUT	Gray Non-Fibrous Homogeneous		20% Quartz 80.0% Non-fibrous (Other)	None Detected

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Collected Date:

Project: FD-BROWNFIELD CLEANUP-1305 N 22ND STREET CONFIRMATION

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
184A 162304227-0064	WALL TEXTURE, WHITE, 1, BUILDING 3 THROUGHOUT	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
184B 162304227-0065	WALL TEXTURE, WHITE, 1, BUILDING 3 THROUGHOUT	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
184C 162304227-0066	WALL TEXTURE, WHITE, 1, BUILDING 3 THROUGHOUT	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
185 162304227-0067	DRYWALL, WHITE, 1, BUILDING 3 THROUGHOUT	White Non-Fibrous Homogeneous		95% Gypsum 5.0% Non-fibrous (Other)	None Detected
186 162304227-0068	DRYWALL TAPE, BEIGE, 1, BUILDING 3 THROUGHOUT	White Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
187A 162304227-0069	DRYWALL MUD, WHITE, 1, BUILDING 3 THROUGHOUT	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
187B 162304227-0070	DRYWALL MUD, WHITE, 1, BUILDING 3 THROUGHOUT	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
187C 162304227-0071	DRYWALL MUD, WHITE, 1, BUILDING 3 THROUGHOUT	Tan Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
188A 162304227-0072	DRYWALL MUD, WHITE, 2, BUILDING 4 2ND FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN NVLAP Lab Code 200188-0, AZ0939, CA 2575, CO AL-15132, TX 300262, A2LA Accredited - Certificate #2845.25

Initial report from: 03/02/2023 08:48:59



EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

<http://www.EMSL.com> / indianapolislab@emsl.com

EMSL Order: 162304227

Customer ID: IMPA25

Customer PO:

Project ID:

Attention: Tyler Silverthorn
Impact7G
8951 Windsor Parkway
Johnston, IA 50131

Phone: (515) 468-1105
Fax: (515) 528-8005
Received Date: 02/27/2023 9:01 AM
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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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
188B 162304227-0073	DRYWALL MUD, WHITE, 2, BUILDING 4 2ND FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
188C 162304227-0074	DRYWALL MUD, WHITE, 2, BUILDING 4 2ND FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
189 162304227-0075	DRYWALL, WHITE, 1, BUILDING 4 1ST FLOOR	White Non-Fibrous Homogeneous		95% Gypsum 5.0% Non-fibrous (Other)	None Detected
190A 162304227-0076	DRYWALL TAPE, BEIGE, 1, BUILDING 4 1ST FLOOR	White Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
190B 162304227-0077	DRYWALL TAPE, BEIGE, 1, BUILDING 4 1ST FLOOR	White Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
190C 162304227-0078	DRYWALL TAPE, BEIGE, 1, BUILDING 4 1ST FLOOR	White Fibrous Homogeneous	98% Cellulose	2.0% Non-fibrous (Other)	None Detected
191A 162304227-0079	DRYWALL MUD, WHITE, 1, BUILDING 4 1ST FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
191B 162304227-0080	DRYWALL MUD, WHITE, 1, BUILDING 4 1ST FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
191C 162304227-0081	DRYWALL MUD, WHITE, 1, BUILDING 4 1ST FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile

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Initial report from: 03/02/2023 08:48:59



EMSL Analytical, Inc.

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EMSL Order: 162304227
Customer ID: IMPA25
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Attention: Tyler Silverthorn
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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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
192A 162304227-0082	WALL TEXTURE, WHITE, 1, BUILDING 4 1ST FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
192B 162304227-0083	WALL TEXTURE, WHITE, 1, BUILDING 4 1ST FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
192C 162304227-0084	WALL TEXTURE, WHITE, 1, BUILDING 4 1ST FLOOR	White Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	<1% Chrysotile
193 162304227-0085	2'x4' CEILING TILE PIN/GOUGE, GREY, 1, BUILDING 4 THROUGHOUT	Gray/White Fibrous Homogeneous	60% Cellulose 20% MinWool	15% Perlite 5.0% Non-fibrous (Other)	None Detected
194 162304227-0086	12"x12" FLOOR TILE, BIEGE, 1, BUILDING 4 THROUGHOUT	Beige Non-Fibrous Homogeneous		97.0% Non-fibrous (Other)	3% Chrysotile
195 162304227-0087	FLOOR TILE MASTIC, BLACK, 1, BUILDING 4 THROUGHOUT	Black Non-Fibrous Homogeneous		98.0% Non-fibrous (Other)	2% Chrysotile
196 162304227-0088	MIRROR MASTIC, BLACK, 1, BUILDING 3 CLOSET/BATHROOM DOORS	Black Non-Fibrous Homogeneous		90.0% Non-fibrous (Other)	10% Chrysotile
197 162304227-0089	VENT CAULK, BEIGE, R, ADMIN VENT FAN	Gray Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected
198 162304227-0090	VENT CAULK, BLACK, R, ADMIN VENT	Black Non-Fibrous Homogeneous		100.0% Non-fibrous (Other)	None Detected

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EMSL Order: 162304227
Customer ID: IMPA25
Customer PO:
Project ID:

Attention: Tyler Silverthorn Impact7G 8951 Windsor Parkway Johnston, IA 50131	Phone: (515) 468-1105 Fax: (515) 528-8005 Received Date: 02/27/2023 9:01 AM Analysis Date: 02/28/2023 Collected Date:
Project: FD-BROWNFIELD CLEANUP-1305 N 22ND STREET CONFIRMATION	

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:	02/27/2023	Sample Receipt Time:	9:01 AM
Analysis Completed Date:	02/28/2023	Analysis Completed Time:	12:27 PM

Analyst(s):

Maggie Hayden PLM (90)

Samples Reviewed and approved by:

Asbestos Laboratory Manager
or other approved signatory

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Initial report from: 03/02/2023 08:48:59

Date Sent: 02/23/23

Asbestos Chain of Custody

EMSL Order Number (lab use only):

162304227



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

PHONE: (515) 473-6256

FAX:

Company: IMPACT7G		EMSL – Bill to: Same <small>Third Party Billing requires written authorization from third party.</small>	
Street: 8951 Windsor Parkway			
City: Johnston	State: IA	Zip Code: 50131	
Report To: Tyler Silverthorn		Phone: 515-473-6256	
Email Address: tsilverthorn@impact7g.com		Please Provide results:EMAIL	
Project Name: FD Brownfield Cleanup - 1305 N 22nd Street Confirmation			
US State Samples Taken: IA			

Turnaround Time (TAT) Options

3-Hour
 6-Hour
 24-Hour
 32-Hour
 48-Hour
 72-Hour
 96-Hour

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 hr TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytic Price Guide.

PLM – BULK (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	TEM – Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763
<input type="checkbox"/> Check for Positive Stop – Clearly Identify Homogeneous Group	Filter Pore Size (Air Samples): <input type="checkbox"/> 0.8 µm <input type="checkbox"/> 0.45 µm


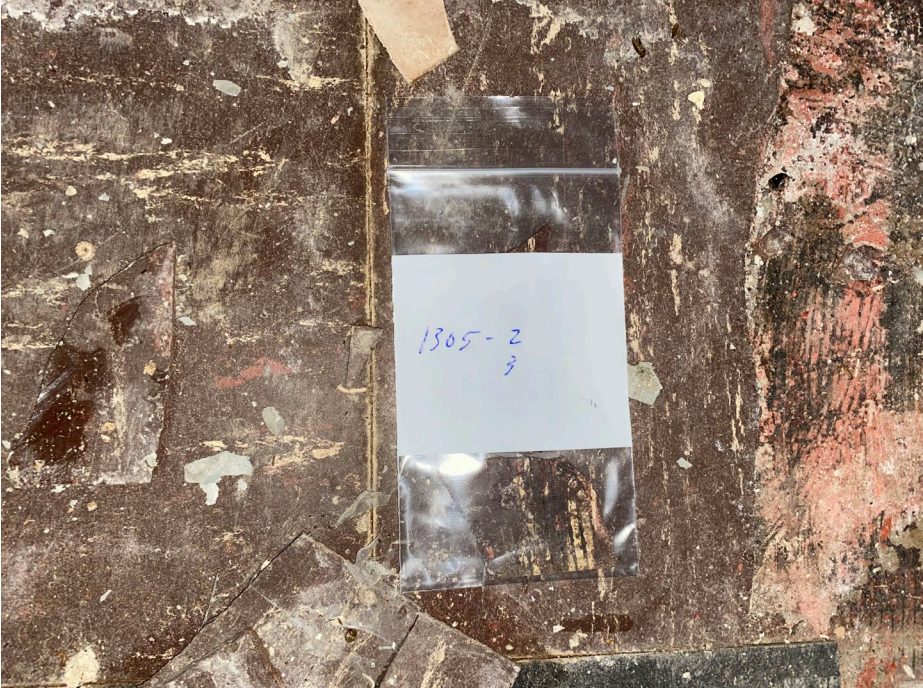
Sample #	Sample/Material Description	Color	Floor	Location	Sample Date
32bc	Plaster	Grey	1 & 2	Admin Building Room 27, 1st Floor Hallway Walls/Ceilings	2/20/2023
136	Caulk	Beige	Ext	Building 3 Blocked over Doorway West Side	2/20/2023
137	Caulk	Beige	Ext	Building 3 Door to Exterior Room	2/20/2023
138abc	Skim Coat	Grey	Ext	Building 3 Lower Wall	2/20/2023
139abc	Stucco	Grey	Ext	Building 2	2/20/2023
141abc	Skim Coat	Beige	Ext	Admin Building Trim	2/20/2023
142	Caulk	White	Ext	Admin West Entry Door	2/20/2023
143	Wall Caulk	White	Ext	Building 4 2nd Floor Wall	2/20/2023
144	Flashing Caulk	Beige	R	Building 3 Roof to Building 4 Wall	2/20/2023
145	Flashing Caulk	Black	R	Building 3 Roof to Building 4 Wall	2/20/2023
146	Caulk	White	R	Building 3 Exhaust Fan	2/20/2023
147	Caulk	Black	R	Building 3 Exhaust Fan	2/20/2023
148	Caulk	Beige	R	Building 3 Vent	2/20/2023
149	Flashing Caulk	Grey	R	Bulding 2 Roof to Admin Wall	2/20/2023
150	Flashing Caulk	Black	R	Bulding 2 Roof to Admin Wall	2/20/2023
151	Flashing Tar	Black	R	Bulding 2 Roof to Admin Wall	2/20/2023
152	Flashing Adhesive	Yellow	R	Bulding 2 Roof to Admin Wall	2/20/2023
153	Flooring (Lower Layer)	Brown	2	Admin Hallway	2/20/2023
154	Tar Paper	Black	2	Admin Hallway	2/20/2023
155	Cove Base	Brown	1	Admin Room 27	2/20/2023
156	Cove Base	Maroon	1	Admin Dieticians Office	2/20/2023
157	Fire Caulk	Red	B	Admin Laundry Room	2/20/2023
158abc	Plaster	Beige	1	Building 2 Throughout	2/20/2023
159abc	Skim Coat	White	1	Building 2 Throughout	2/20/2023
160	Linoleum	Tan Brown Pebble	1	Building 2 Patient Bathroom	2/20/2023
161	2'x2' Ceiling Tile, Hole/Gouge	Grey	1	Building 2 Throughout	2/20/2023
162	2'x2' Ceiling Tile, Pin/Gouge	Grey	1	Building 2 Throughout	2/20/2023
163	Ceramic Tile Mastic	Yellow	1	Building 2 Bathrooms	2/20/2023
164	Cove Base	Maroon	1	Building 2 Hallway	2/20/2023
165	Cove Base	Beige	1	Building 2 Hallway	2/20/2023
166	Cove Base Mastic	Black	1	Building 2 Patient Room	2/20/2023
167	Cove Base Mastic	Brown	1	Building 2 Throughout	2/20/2023
168	Cove Base	Beige	1	Building 2 Patient Room	2/20/2023
169	12"x12" Floor Tile	Grey	1	Building 3 Throughout	2/20/2023
170	Floor Tile Mastic	Yellow	1	Building 3 Throughout	2/20/2023
171	Cove Base	Brown	1	Building 3 Throughout	2/20/2023
172	Linoleum Mastic	Black	1	Building 3 Hallway	2/20/2023
173	DiamonD Cabinet Linoleum	Beige	1	Building 3 Drug Storage Rooms	2/20/2023
174	Angled Brick Cabinet Linoleum	Beige	1	Building 3 Drug Storage Rooms	2/20/2023
175	Cove Base	Grey	1	Building 3 Throughout	2/20/2023
176	Cove Base Mastic	White	1	Building 3 Throughout	2/20/2023
177	12"x12" Floor Tile	Red	1	Building 3 Sun Room	2/20/2023
178	12"x12" Floor Tile	Olive	1	Building 3 Sun Room	2/20/2023

Sample #	Sample/Material Description	Color	Floor	Location	Sample Date
179	2'x4' Ceiling Tile Pin/Hole	Grey	1	Building 3 Throughout	2/20/2023
180	2'x4' Ceiling Tile Pin/Gouge	Grey	1	Building 3 Throughout	2/20/2023
181	2'x2' Ceiling Tile Pin/Gouge	Grey	1	Building 3 Throughout	2/20/2023
182abc	Plaster	Grey	1	Building 3 Throughout	2/20/2023
183abc	Skim Coat	Grey	1	Building 3 Throughout	2/20/2023
184abc	Wall Texture	White	1	Building 3 Throughout	2/20/2023
185	Drywall	White	1	Building 3 Throughout	2/20/2023
186	Drywall Tape	Beige	1	Building 3 Throughout	2/20/2023
187abc	Drywall Mud	White	1	Building 3 Throughout	2/20/2023
188abc	Drywall Mud	White	2	Building 4 2nd Floor	2/21/2023
189	Drywall	White	1	Building 4 1st Floor	2/21/2023
190abc	Drywall Tape	Beige	1	Building 4 1st Floor	2/21/2023
191abc	Drywall Mud	White	1	Building 4 1st Floor	2/21/2023
192abc	Wall Texture	White	1	Building 4 1st Floor	2/21/2023
193	2'x4' Ceiling Tile Pin/Gouge	Grey	1	Building 4 Throughout	2/21/2023
194	12"x12" Floor Tile	Beige	1	Building 4 Throughout	2/21/2023
195	Floor Tile Mastic	Black	1	Building 4 Throughout	2/21/2023
196	Mirror Mastic	Black	1	Building 3 Closet/Bathroom Doors	2/21/2023
197	Vent Caulk	Beige	R	Admin Vent Fan	2/21/2023
198	Vent Caulk	Black	R	Admin Vent	2/21/2023
Client Sample # (s): 32c - 198					Total Samples: 90
Relinquished (Client): Tyler Silverthorn			Date: 02/23/23	Time: 1745	
Received (Lab): <i>TS</i>			Date: <i>2/27/23</i>	Time: <i>901am</i> <i>FX</i>	
Comments/Special Instructions: Only analyze materials identified. Thank you!					

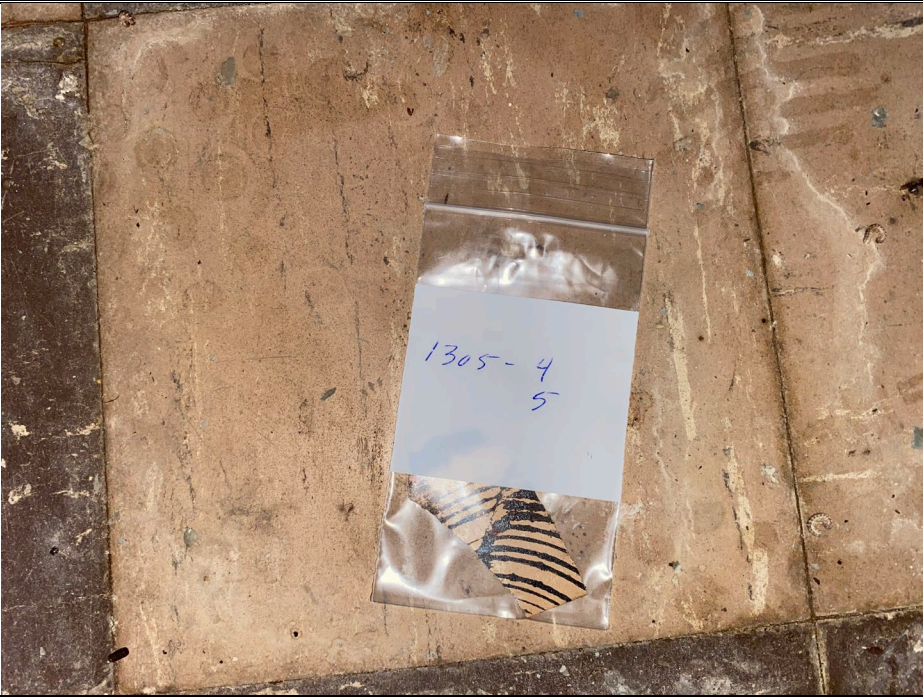
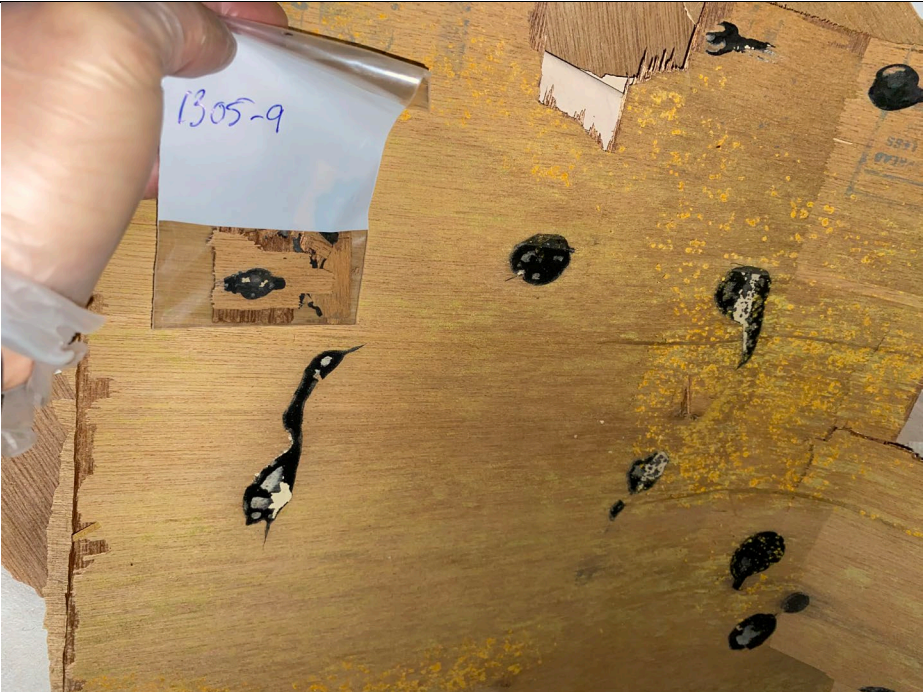
APPENDIX C

Photographs

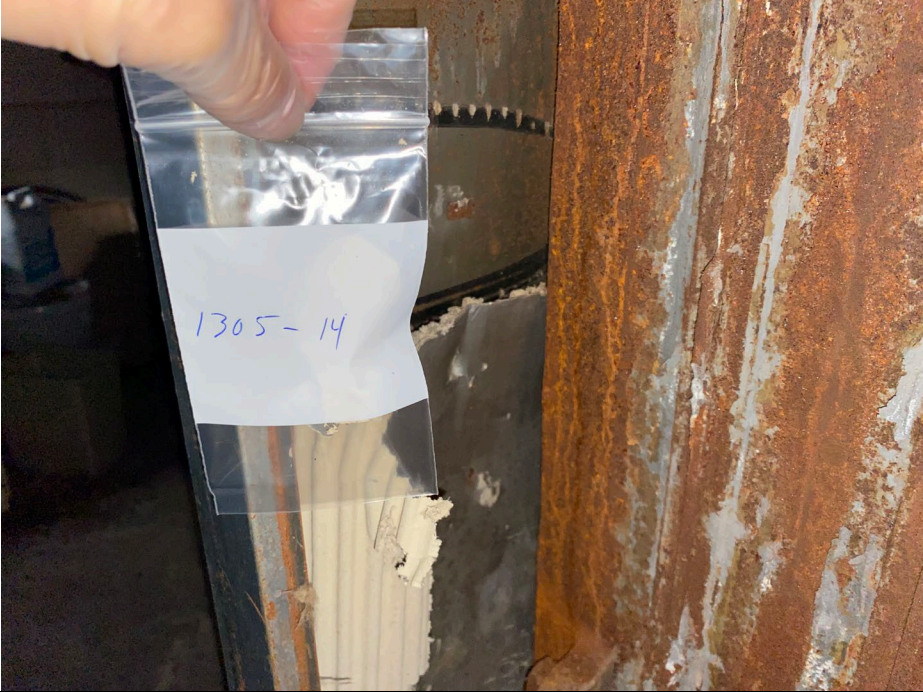

Photograph table includes photos of all asbestos-containing materials.

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #1</p> <p>Description:</p> <p>ACM White Duct Seam Tape W Admin Building – On Ducts Throughout Walls & Basement</p> <p>Sample 1305-01 ABC</p>	
<p>Photo #2</p> <p>Description:</p> <p>ACM Brown 9" x 9" Floor Tile & ACM Black 9" x 9" Floor Tile Mastic SW Admin Building - Basement Storage & Cab Room</p> <p>Sample 1305-02 1305-03</p>	

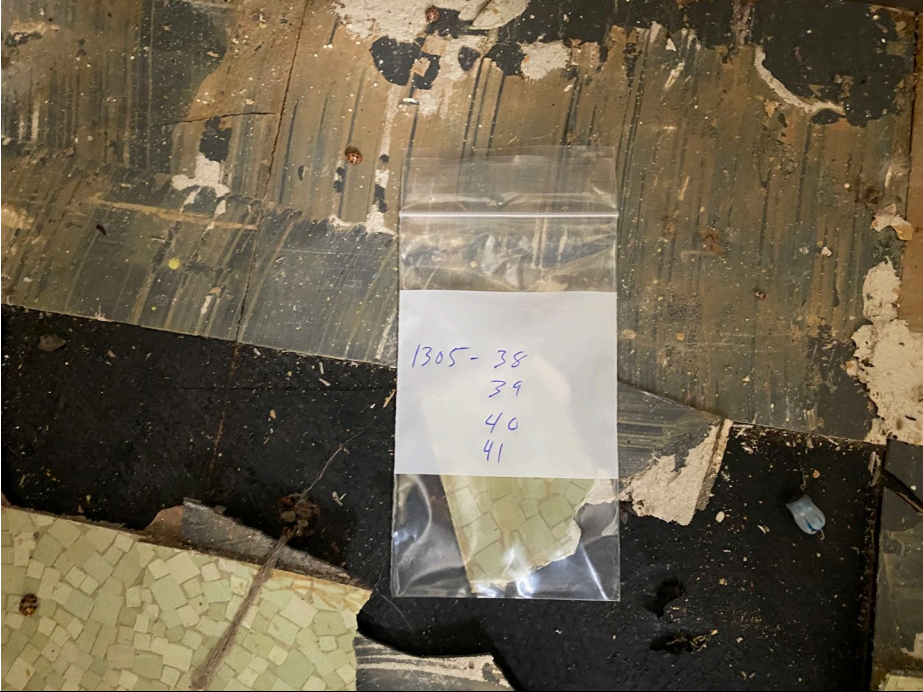
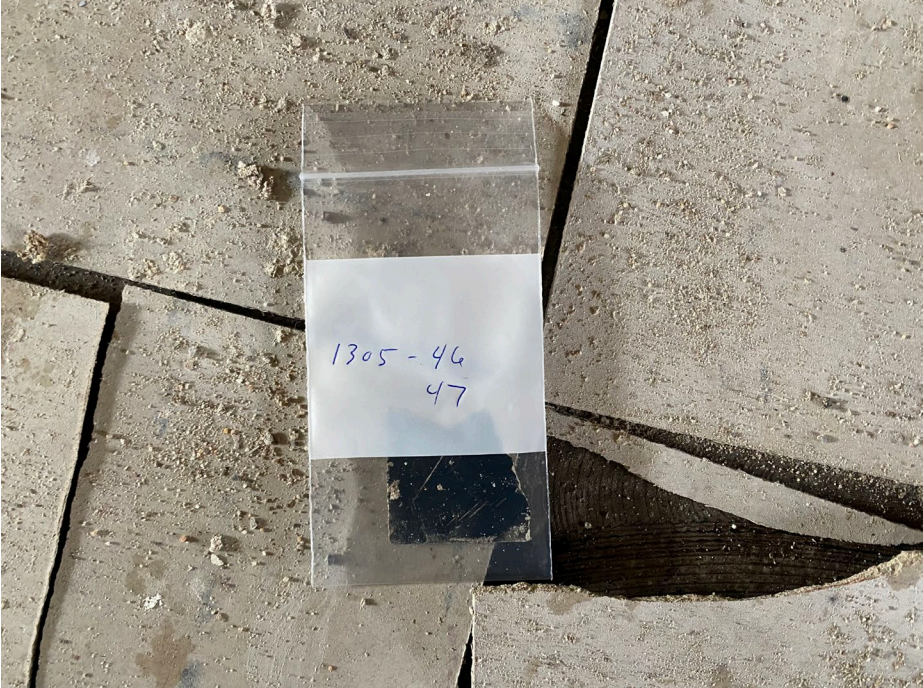
Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #3</p> <p>Description:</p> <p>ACM Tan/Red 9" x 9" Floor Tile & ACM Black 9" x 9" Floor Tile Mastic SW Admin Building - Basement Storage & Cab Room</p> <p>Sample 1305-04 - Floor Tile 1305-05</p>	
<p>Photo #4</p> <p>Description:</p> <p>ACM Black Wall Panel Adhesive SW Admin Building - Basement South Storage Room</p> <p>Sample 1305-09</p>	

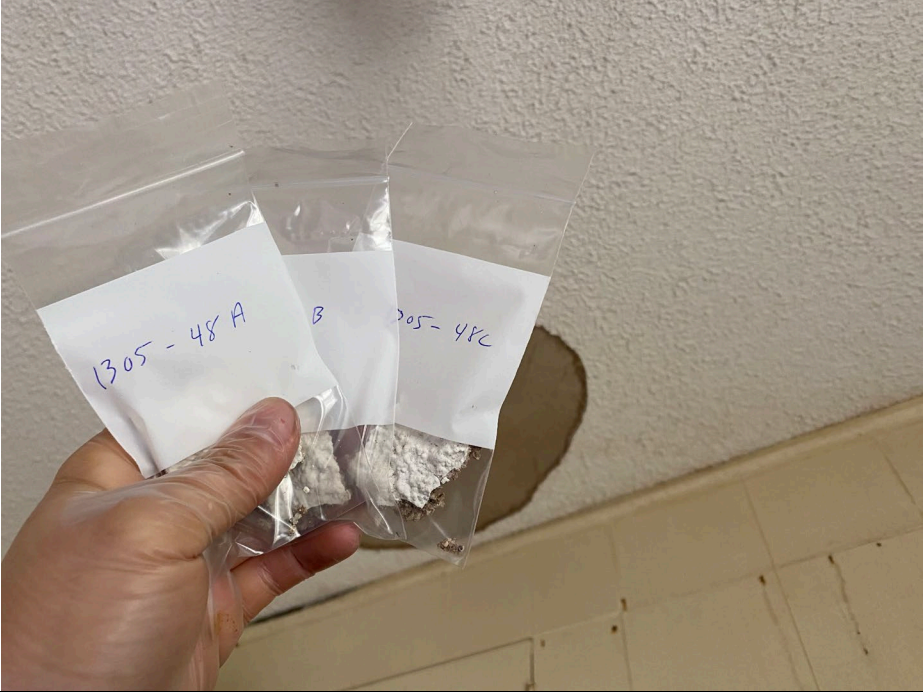

Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #5</p> <p>Description:</p> <p>ACM White Hot Water Insulation SW Admin Building Basemen – Boiler Room - Weil McClain Water Heater</p> <p>Sample 1305-14</p>	
<p>Photo #6</p> <p>Description:</p> <p>ACM Tan "Squares" Linoleum Floor SW Admin Building - Throughout 2nd Floor</p> <p>Sample 1305-19</p>	

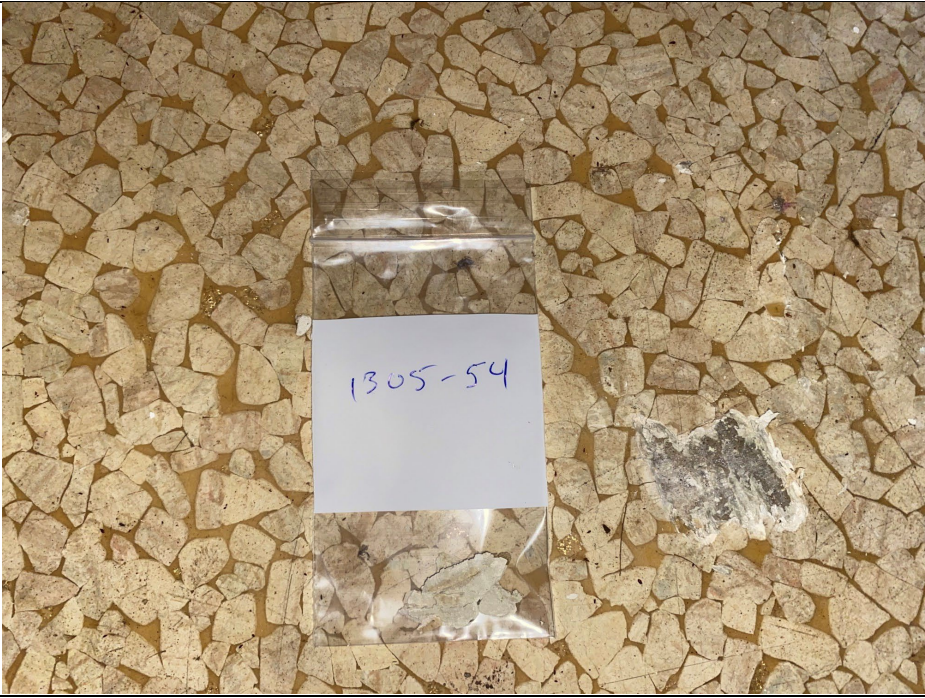

Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #7</p> <p>Description:</p> <p>ACM Tan "Squares" Linoleum Floor & ACM Tan 9" x 9" Floor Tile (Under Linoleum) SW Admin Building - Throughout Room</p> <p>Sample 1305-38 1305-40</p>	 <p>A photograph showing a close-up of a damaged floor area. A clear plastic bag containing a sample is placed on a dark, peeling surface. The bag has a white label with handwritten text: "1305-38", "39", "40", and "41". In the background, there are tan-colored linoleum tiles and a section of yellow mosaic tiles.</p>
<p>Photo #8</p> <p>Description:</p> <p>ACM Tan w/Brown Streaks 9" x 9" Floor Tile Building 2 - Hallway & Patient Rooms</p> <p>Sample 1305-46</p>	 <p>A photograph of a floor tile with a tan color and brown streaks. A clear plastic bag with a white label is placed on the tile. The label has handwritten text: "1305-46" and "47". The tile is surrounded by other similar tiles, and a dark, curved object is visible in the lower right corner.</p>

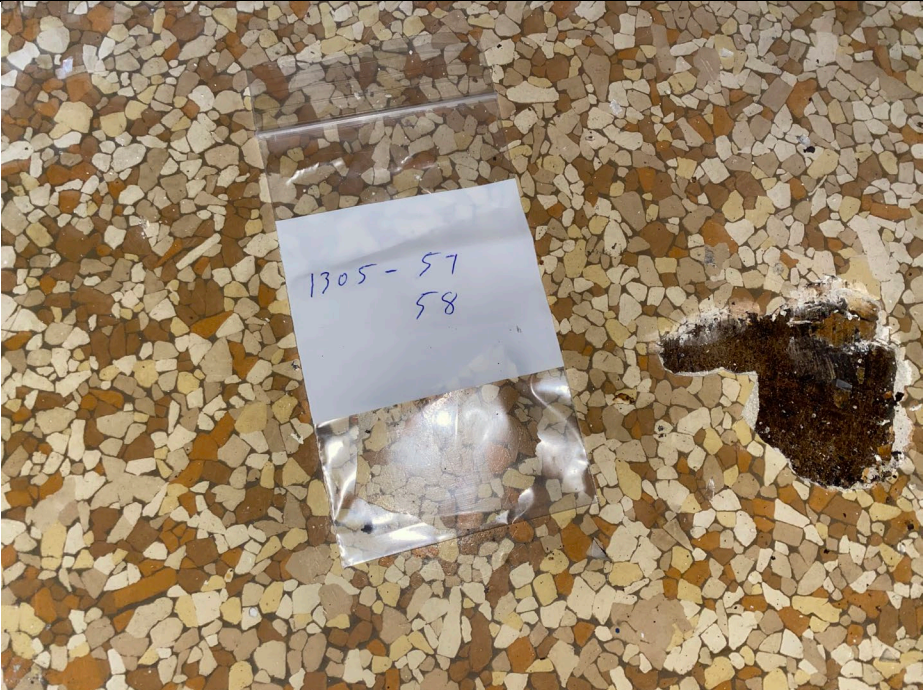
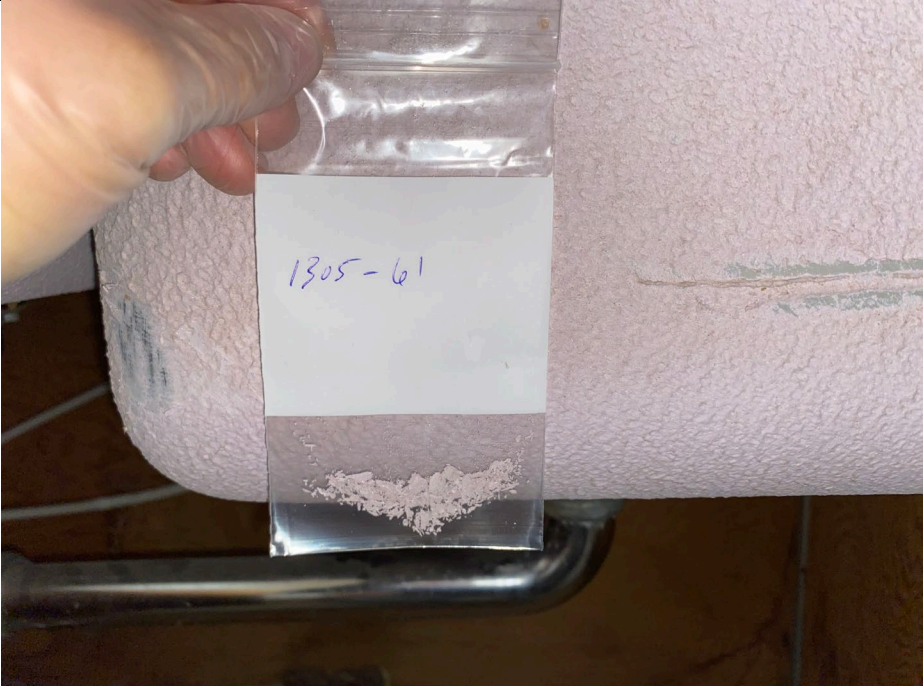
Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #9</p> <p>Description:</p> <p>ACM White Ceiling Texture Building 2 - Hallway & Patient Rooms</p> <p>Sample 1305-48 ABC</p>	
<p>Photo #10</p> <p>Description:</p> <p>ACM Black 12" x 12" Floor Tile Mastic & Floor Debris Building 2 Restrooms</p> <p>Sample 1305-50 -- Mastic/Debris</p>	

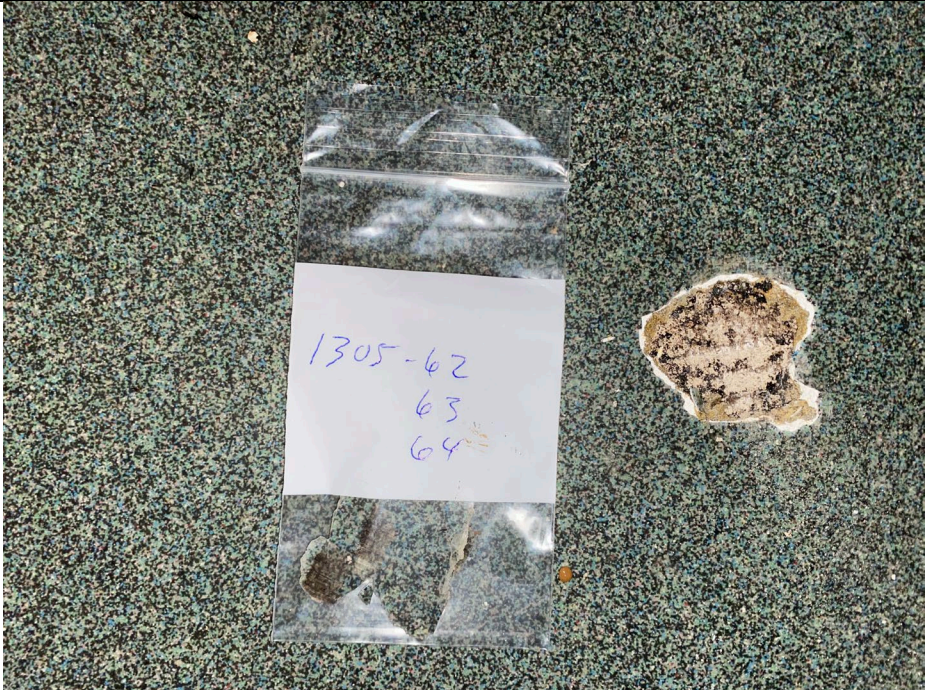
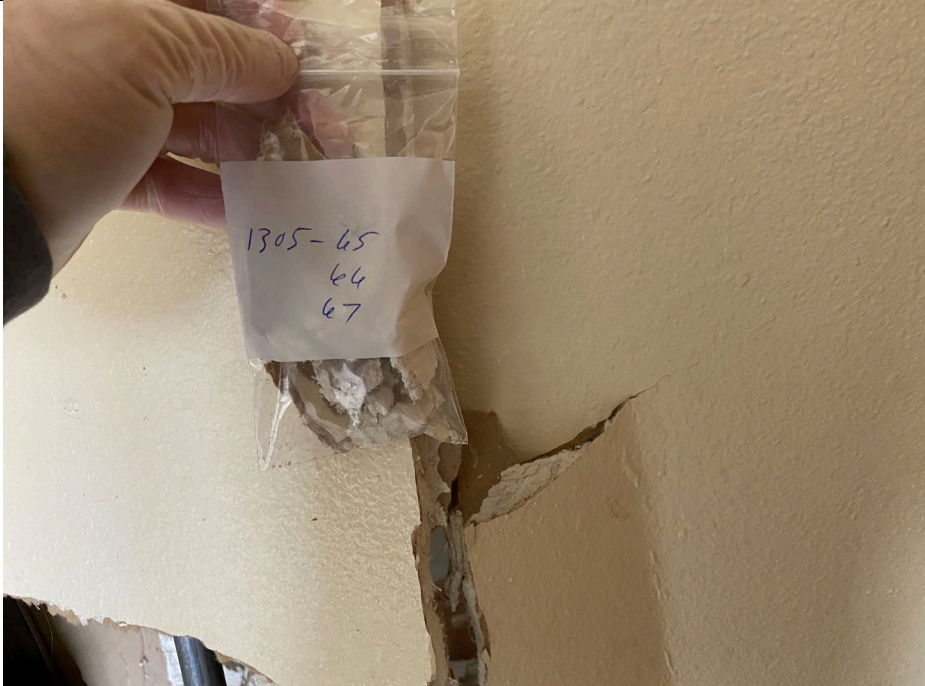
Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #11</p> <p>Description:</p> <p>ACM Tan/Brown "Rounded Squares" Linoleum Floor Building 3 - Patient Rooms</p> <p>Sample 1305-54 - Linoleum</p>	
<p>Photo #12</p> <p>Description:</p> <p>ACM Tan & Brown Streaks 12" x 12" Floor Tile & ACM Black 12" x 12" Floor Tile Mastic</p> <p>Building 4 - 2nd Floor Throughout Hallways & Patient Rooms</p> <p>Sample 1305-55 1305-56</p>	



Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #13</p> <p>Description:</p> <p>ACM Brown Linoleum Adhesive, Building 4 - Patient Room, Restrooms</p> <p>Sample 1305-58</p>	
<p>Photo #14</p> <p>Description:</p> <p>ACM Gray Sink Insulation Throughout Building 3 & 4</p> <p>Sample 1305-61</p>	

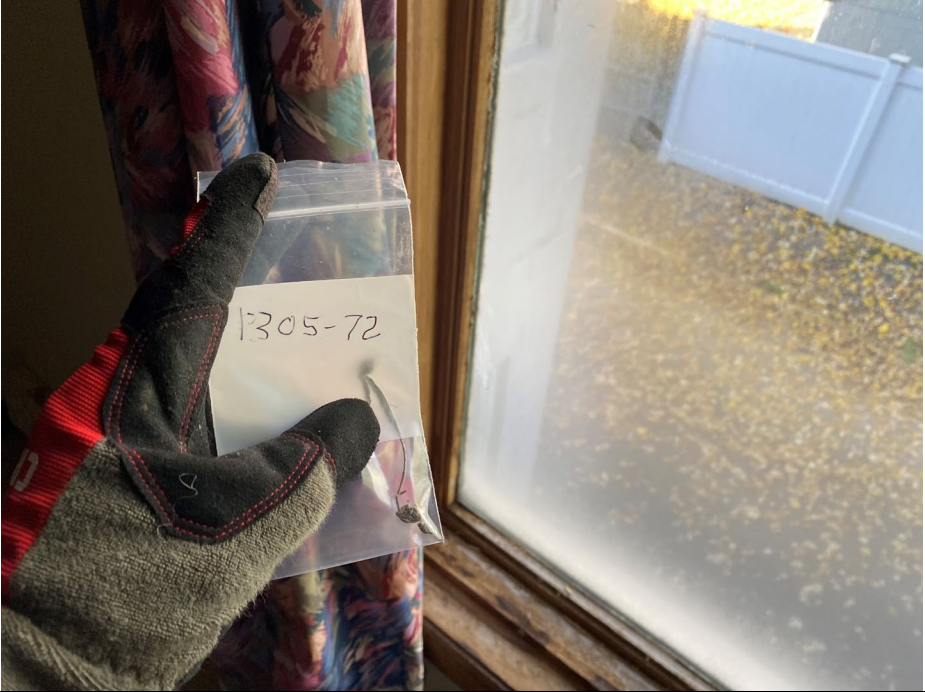

Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #15</p> <p>Description:</p> <p>ACM Black Linoleum Adhesive Building 4 – Self Care/Shower Rooms</p> <p>Sample 1305-63</p>	
<p>Photo #16</p> <p>Description:</p> <p>ACM White Drywall Tape & Compound Building 3 & 4 Walls & Ceilings</p> <p>Sample 1305-66 1305-67</p>	



Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #17</p> <p>Description:</p> <p>ACM Black Mirror Adhesive Building 4 Closet Door Mirrors</p> <p>Sample 1305-68</p>	
<p>Photo #18</p> <p>Description:</p> <p>ACM White Wall Texture Building 3 & 4 walls</p> <p>Sample 1305-71 ABC - Texture</p>	



Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #19</p> <p>Description:</p> <p>ACM White Window Glaze Building 4 - Patient Rooms</p> <p>Sample 1305-72</p>	
<p>Photo #20</p> <p>Description:</p> <p>ACM Brown Ceramic Adhesive Drywall Joint Compound Selfcare/Shower Rooms Building 4</p> <p>Sample 1305-75 - Joint Compound</p>	



Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #21</p> <p>Description:</p> <p>ACM Fire Door Building 4 – Emergency Generator Room</p> <p>Sample 1305-76</p>	
<p>Photo #22</p> <p>Description:</p> <p>ACM White Caulk Building 4 – Emergency Generator Room Door Frame</p> <p>Sample 1305-77</p>	

Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #23</p> <p>Description:</p> <p>ACM Black Caulk Admin Building Roof - Membrane Seams</p> <p>Sample 1305-83</p>	
<p>Photo #24</p> <p>Description:</p> <p>ACM Light Gray Transite Flue Building 2 - Roof to Interior</p> <p>Sample 1305-88</p>	

Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #25</p> <p>Description:</p> <p>ACM Black/Gray Conduit Tar Throughout Roof</p> <p>Sample 1305-90</p>	 A hand is holding a clear plastic bag with a white label that reads "1305-90". The bag is positioned next to a metal vent pipe that protrudes from a roof. The roof surface is covered with dark gravel. The vent pipe has a circular opening at the top. The background shows more of the roof and some shadows.
<p>Photo #26</p> <p>Description:</p> <p>ACM Gray Tar Building 4 Roof - Large AC Units & Round Vents</p> <p>Sample 1305-108</p>	 A hand is holding a clear plastic bag with a white label that reads "1305-108". The bag is positioned next to a large, white, rectangular AC unit on a roof. The roof surface is covered with dark gravel. The AC unit has a dark metal base and a pipe extending from it. The background shows more of the roof and some shadows.

Photograph table includes photos of all asbestos-containing materials (Continued).

11/1-2, 2021
Photographer:
Dakota Wenzel
& Spencer Baldwin

Asbestos Containing Materials Inspection
1305 N. 22nd Street
Fort Dodge, IA 50501

Photo #27

Description:

ACM Gray Conduit Tar,
Building 4 Roof - Small AC
Units

Sample 1305-111



Photo #28



Description:

ACM White Window Glaze
Admin Building – Windows



Sample 1305-122





Photograph table includes photos of all asbestos-containing materials (Continued).

<p>11/1-2, 2021 Photographer: Dakota Wenzel & Spencer Baldwin</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #29</p> <p>Description:</p> <p>ACM Black Tar Paper Admin Building – West Entrance Overhang Layer 4</p> <p>Sample 1305-128</p>	 A photograph showing a clear plastic sample bag with a white label that reads "1305-128". The bag is placed on a surface of dark, cracked, and crumbly material, likely black tar paper. The background shows more of this material and some dry, cracked earth.
<p>Photo #30</p> <p>Description:</p> <p>ACM White Ceiling Texture Building 2 – Hallways & Patient Rooms</p> <p>Sample 1305-131 ABC</p>	 A photograph showing a person wearing a black nitrile glove holding a clear plastic sample bag with a white label that reads "1305-131c". The person is positioned near a ceiling with a white textured surface. Several rusted metal beams are visible, crossing the ceiling. A white electrical outlet is visible on the wall below the ceiling.



Photograph table includes photos of all asbestos-containing materials (Continued).

<p>2/20-21, 2023 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #31</p> <p>Description:</p> <p>ACM Tan w/Lines 12" x 12" Floor Tile Building 3 - Storage by North Entrance</p> <p>Sample 1305-134</p>	 A photograph showing a close-up of tan-colored floor tiles. The tiles are arranged in a grid pattern and have a slightly textured surface. A white sample bag with the handwritten label "1305-134" is placed on one of the tiles. A red-handled tool is visible in the background.
<p>Photo #32</p> <p>Description:</p> <p>ACM Black Tar Building 3 & 4 Roof Union</p> <p>Sample 1305-136 (Photo mislabeled 101)</p>	 A photograph showing a roof union between two buildings. The roof is covered in black tar. A person's shadow is cast on the white wall above the roof. A white sample bag with the handwritten label "1305-101" is held in the foreground. The background shows a body of water and a boat.



Photograph table includes photos of all asbestos-containing materials (Continued).

<p>2/20-21, 2023 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #33</p> <p>Description:</p> <p>ACM Beige Caulk Building 3 – Door to Exterior</p> <p>Sample 1305-137</p>	
<p>Photo #34</p> <p>Description:</p> <p>ACM Black Flashing Caulk Building 2 Roof to Admin Wall</p> <p>Sample 1305-150</p>	



Photograph table includes photos of all asbestos-containing materials (Continued).

<p>2/20-21, 2023 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #35</p> <p>Description:</p> <p>ACM Black Flashing Tar Building 2 Roof to Admin Wall</p> <p>Sample 1305-151</p>	
<p>Photo #36</p> <p>Description:</p> <p>ACM Tan Wall Texture Building 3 – Throughout</p> <p>Sample 1305-184 ABC</p>	


Photograph table includes photos of all asbestos-containing materials (Continued).

<p>2/20-21, 2023 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #37</p> <p>Description:</p> <p>ACM Tan Drywall Mud Building 3 – Throughout</p> <p>Sample 1305-187 AC</p>	
<p>Photo #38</p> <p>Description:</p> <p>ACM Tan Drywall Mud Building 4 – 2nd Floors</p> <p>Sample 1305-188 ABC</p>	

Photograph table includes photos of all asbestos-containing materials (Continued).

<p>2/20-21, 2023 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #39</p> <p>Description:</p> <p>ACM White Drywall Mud and ACM White Wall Texture Building 4 – 1st Floors</p> <p>Sample 1305-191 ABC 1305-192 ABC</p>	
<p>Photo #40</p> <p>Description:</p> <p>ACM Beige 12" x 12" Floor Tile and ACM Black 12" x 12" Floor Tile Mastic Building 4 – Throughout</p> <p>Sample 1305-194 1305-195</p>	

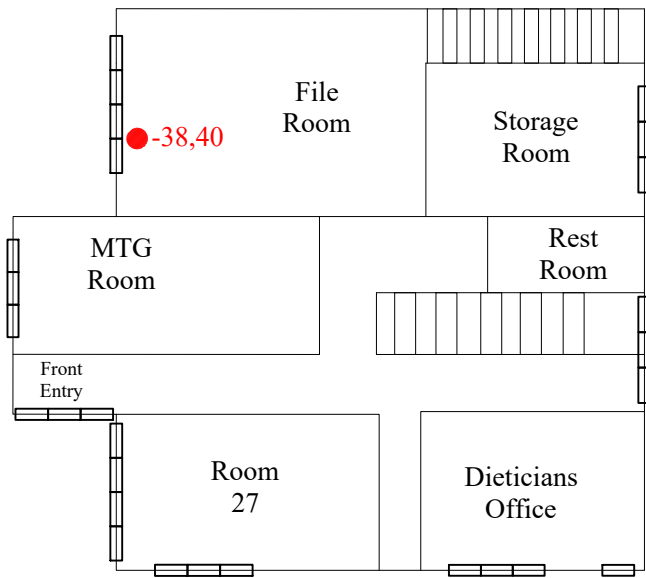
Photograph table includes photos of all asbestos-containing materials (Continued).

<p>2/20-21, 2023 Photographer: Tyler Silverthorn</p>	<p>Asbestos Containing Materials Inspection 1305 N. 22nd Street Fort Dodge, IA 50501</p>
<p>Photo #41</p> <p>Description:</p> <p>ACM Black Mirror Mastic Building 3 – Closet/Bathroom Doors</p> <p>Sample 1305-196</p>	

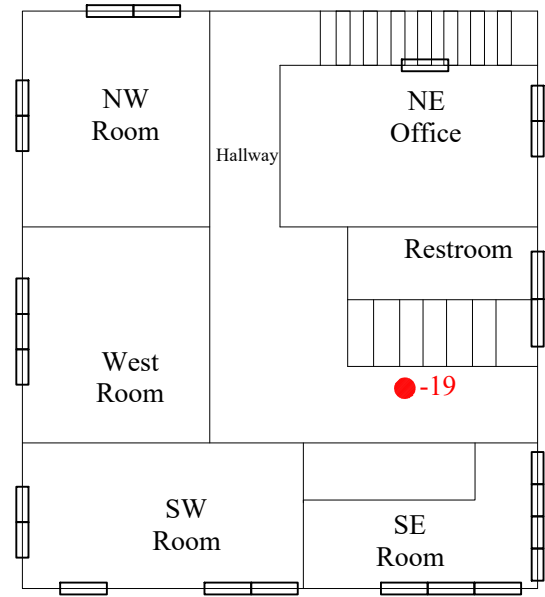
APPENDIX D

ACM Map(s)

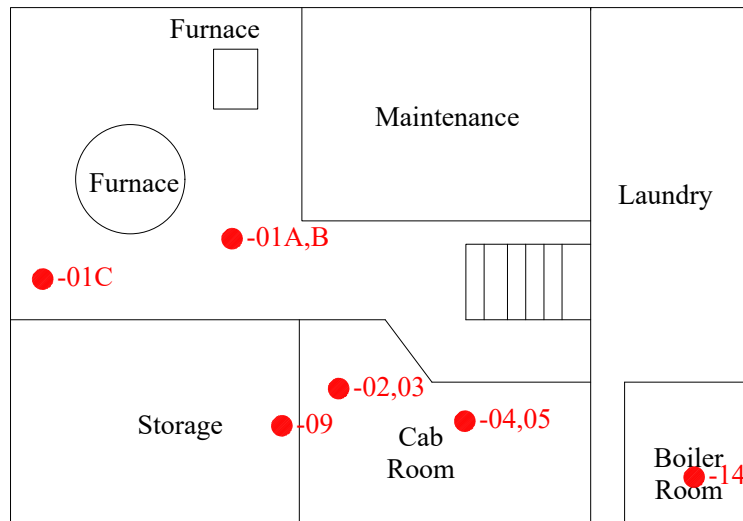
Admin
1st Story



Admin
2nd Story

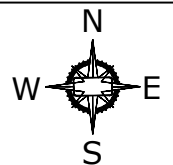


Admin
Basement



Legend

● -Positive ACM



JOB DESCRIPTION:

Brownfield Cleanup Grant-ACM Inspection
1305 N 22nd Street
Fort Dodge, Iowa

SHEET TITLE:

ACM Positive Summary Map
Admin Building

DATE:

03/16/23

DRAWN BY:

TS

CHECKED BY:

JD

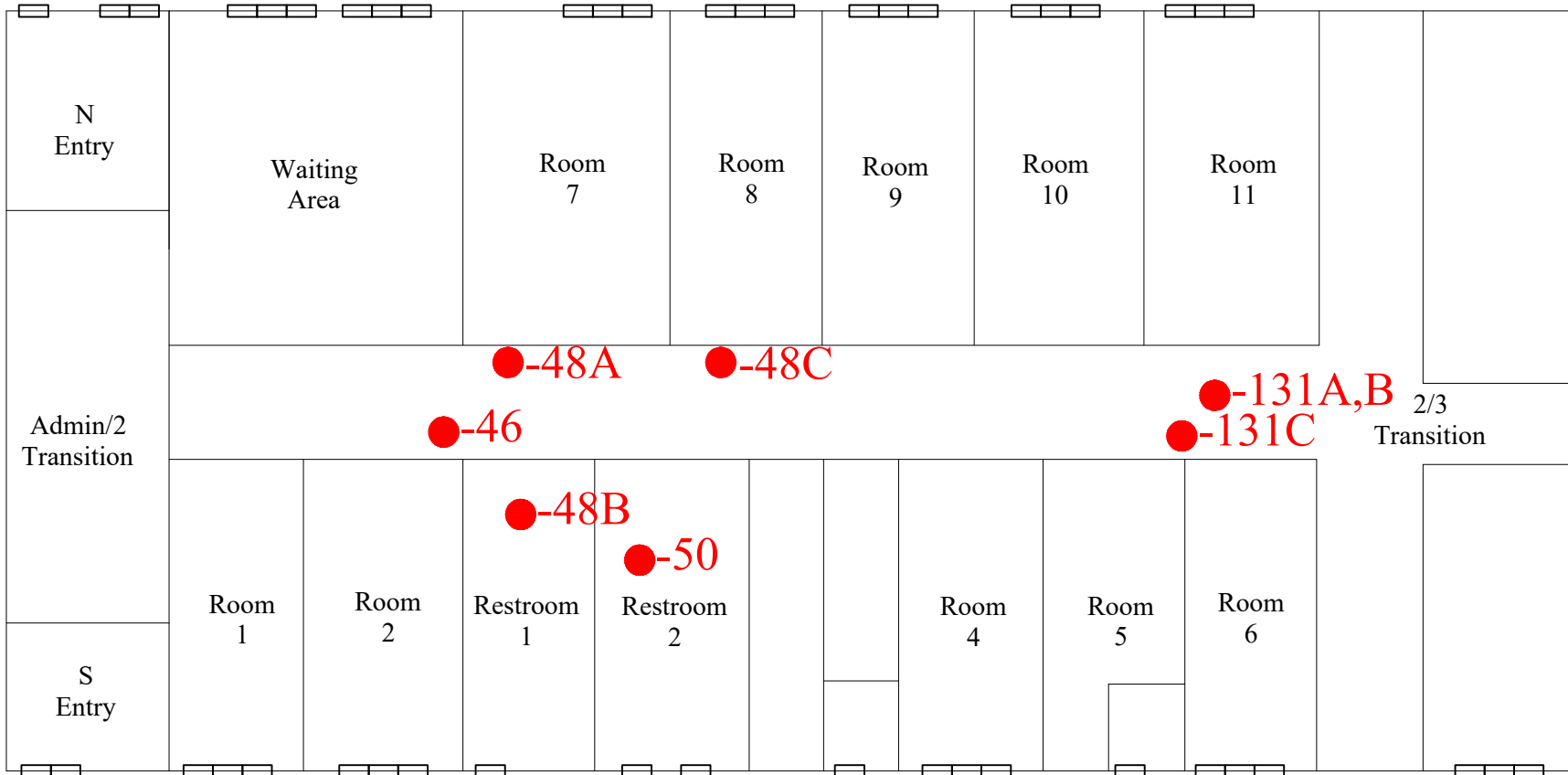
SCALE:

N/A

PROJECT NO.:

City of Fort Dodge-Brownfield Cleanup

Building 2



DATE: 03/16/23
DRAWN BY: TS
CHECKED BY: JD
SCALE: N/A
PROJECT NO.:
City of Fort Dodge-Brownfield Cleanup

Brownfield Cleanup Grant-ACM Inspection
1305 N 22nd Street
Fort Dodge, Iowa

ACM Positive Summary Map
Building 2 - 1st Story

JOB DESCRIPTION

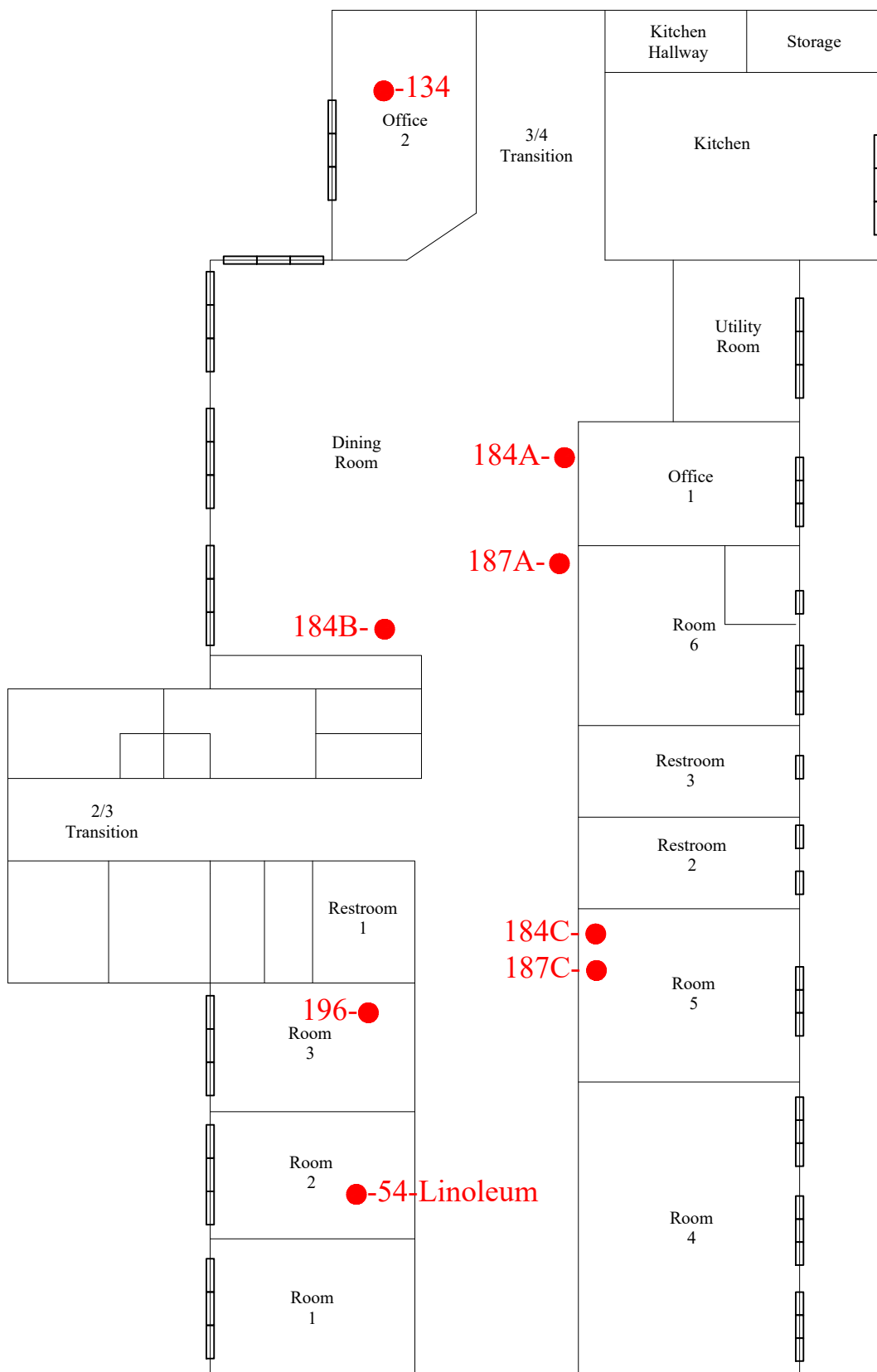
SHEET TITLE



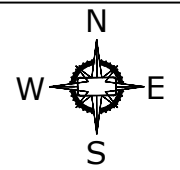
Legend

● -Positive ACM

Building 3



Legend
● -Positive ACM

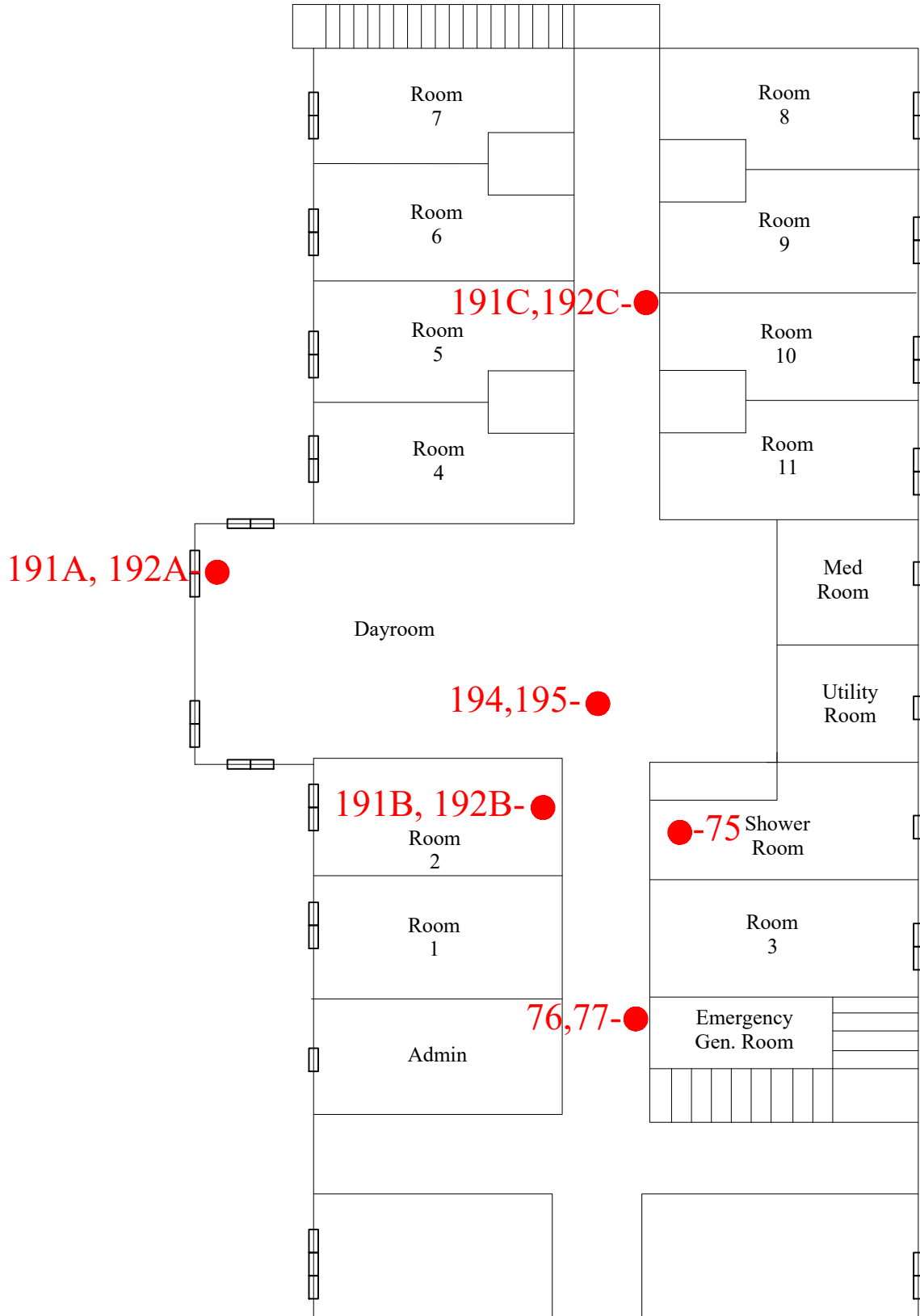


JOB DESCRIPTION:
 Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

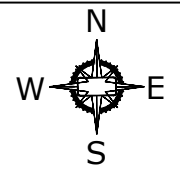
SHEET TITLE:
 ACM Positive Summary Map
 Building 3 - 1st Story

DATE: 03/16/23
DRAWN BY: TS
CHECKED BY: JD
SCALE: N/A
PROJECT NO.: City of Fort Dodge-Brownfield Cleanup

Building 4 1st Story



Legend
● -Positive ACM

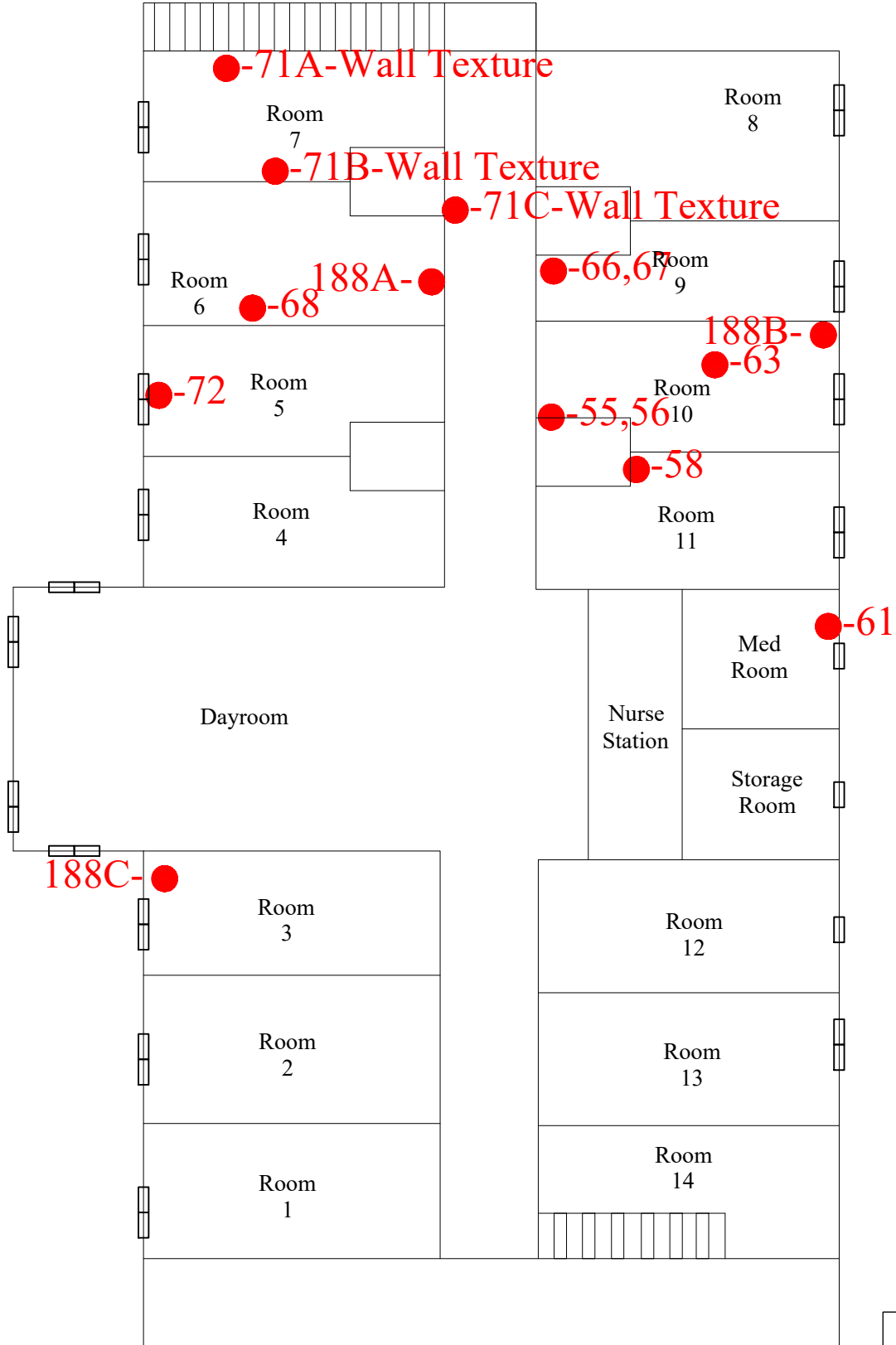


JOB DESCRIPTION:
 Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

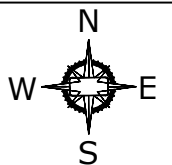
SHEET TITLE:
 ACM Positive Summary Map
 Building 4 - 1st Story

DATE: 03/16/23
DRAWN BY: TS
CHECKED BY: JD
SCALE: N/A
PROJECT NO.: City of Fort Dodge-Brownfield Cleanup

Building 4 2nd Story



Legend
● -Positive ACM




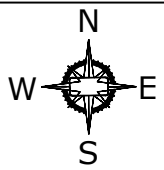
JOB DESCRIPTION: Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

SHEET TITLE: ACM Positive Summary Map
 Building 4 - 2nd Story

DATE: 03/16/23
 DRAWN BY: TS
 CHECKED BY: JD
 SCALE: N/A
 PROJECT NO: City of Fort Dodge-Brownfield Cleanup



Legend
 -Positive ACM



JOB DESCRIPTION:
 Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

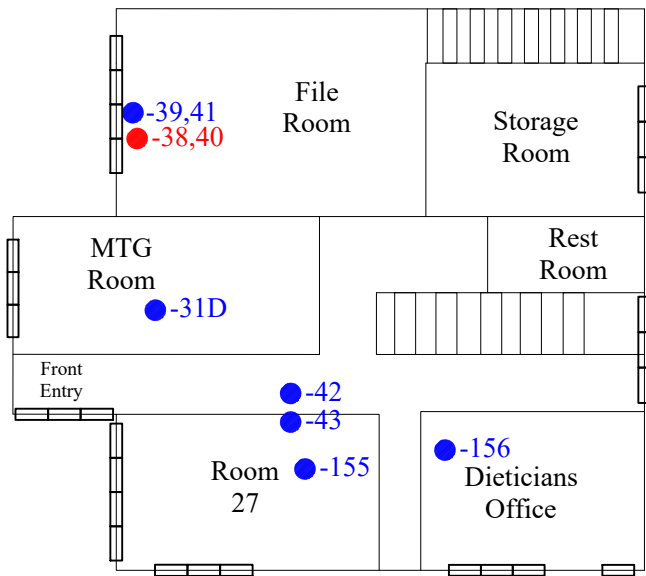
SHEET TITLE:
 ACM Positive Summary Map
 Exterior and Roof

DATE: 03/16/23
 DRAWN BY: TS
 CHECKED BY: JD
 SCALE: N/A
 PROJECT NO:
 City of Fort Dodge-Brownfield Cleanup

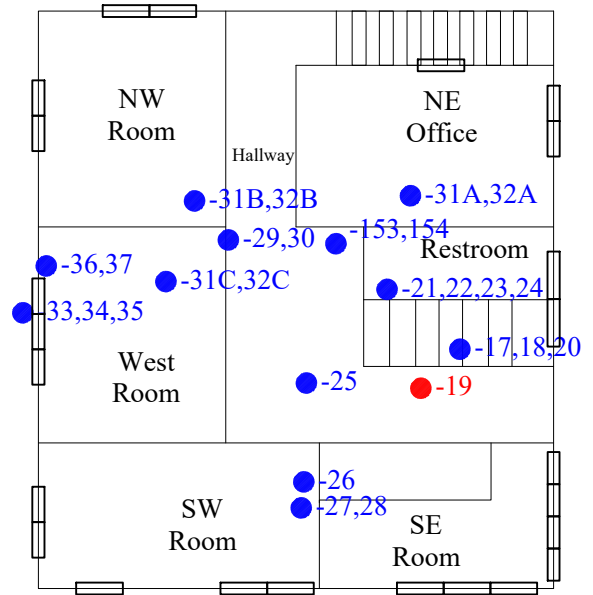
APPENDIX E

Sample Location Map(s)

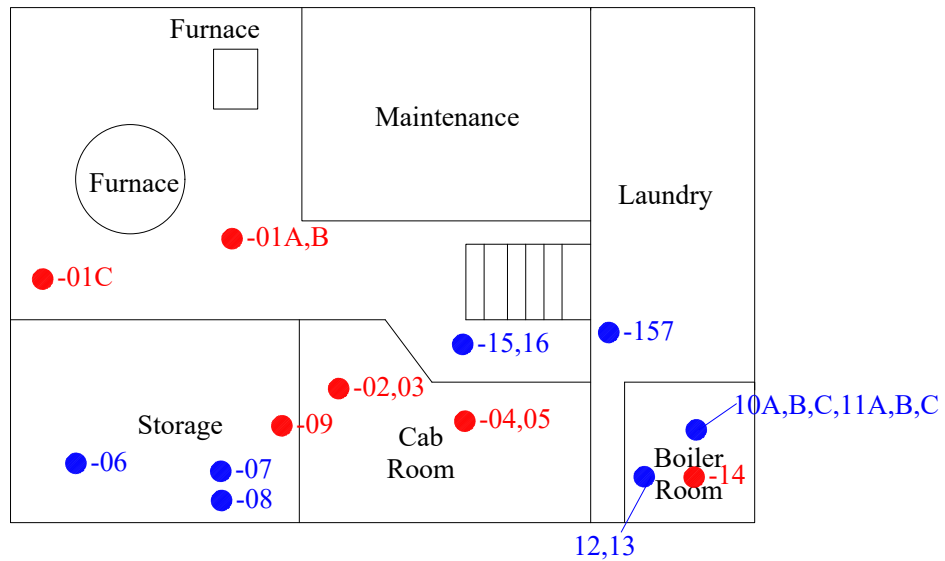
Admin
1st Story



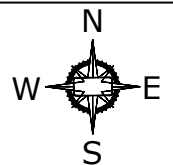
Admin
2nd Story



Admin
Basement



Legend
 ● -Positive ACM
 ● -Negative ACM

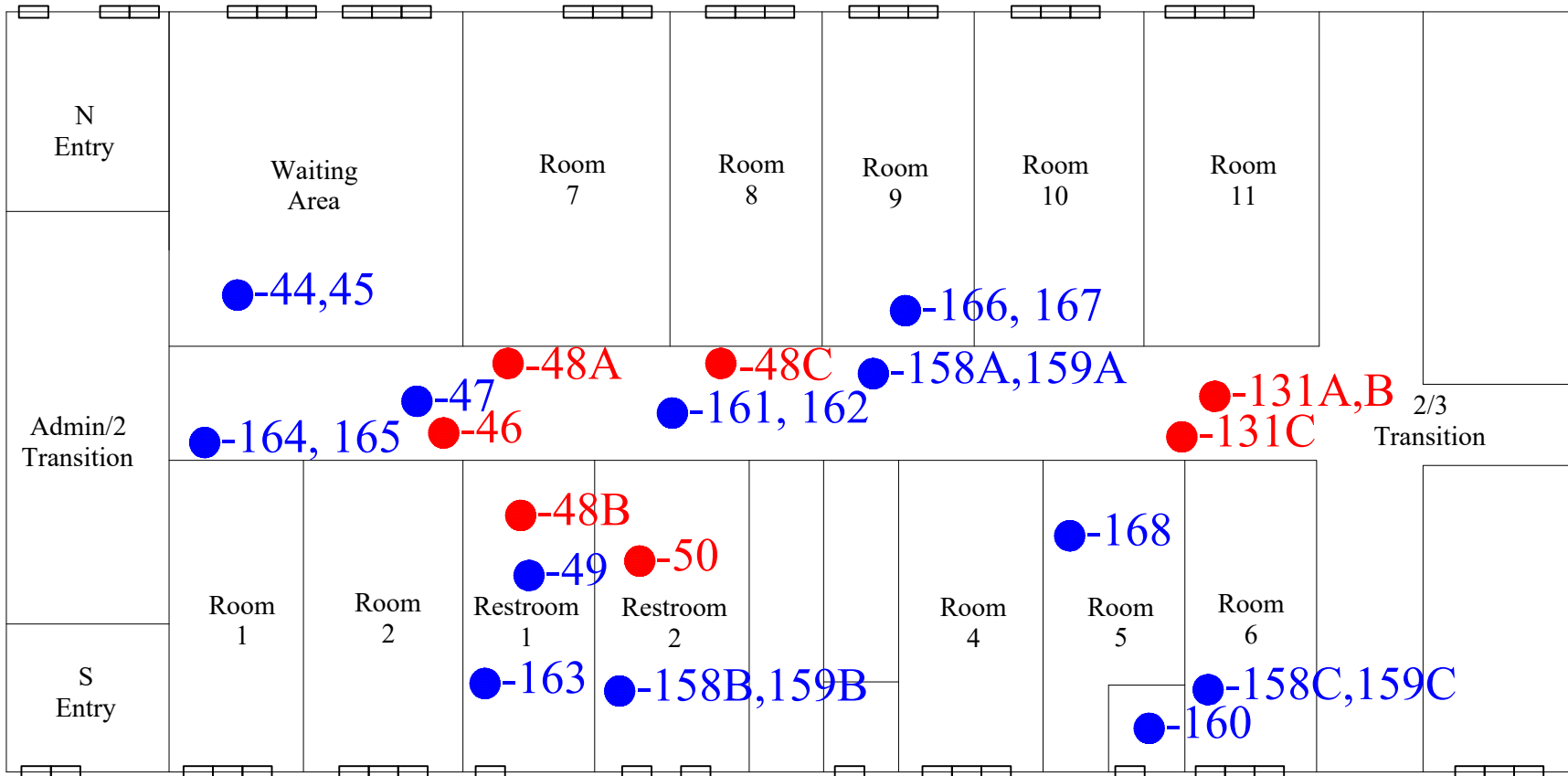


JOB DESCRIPTION: Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

SHEET TITLE: Sample Location Map
 Admin Building

DATE: 03/16/23
 DRAWN BY: TS
 CHECKED BY: JD
 SCALE: N/A
 PROJECT NO: City of Fort Dodge-Brownfield Cleanup

Building 2



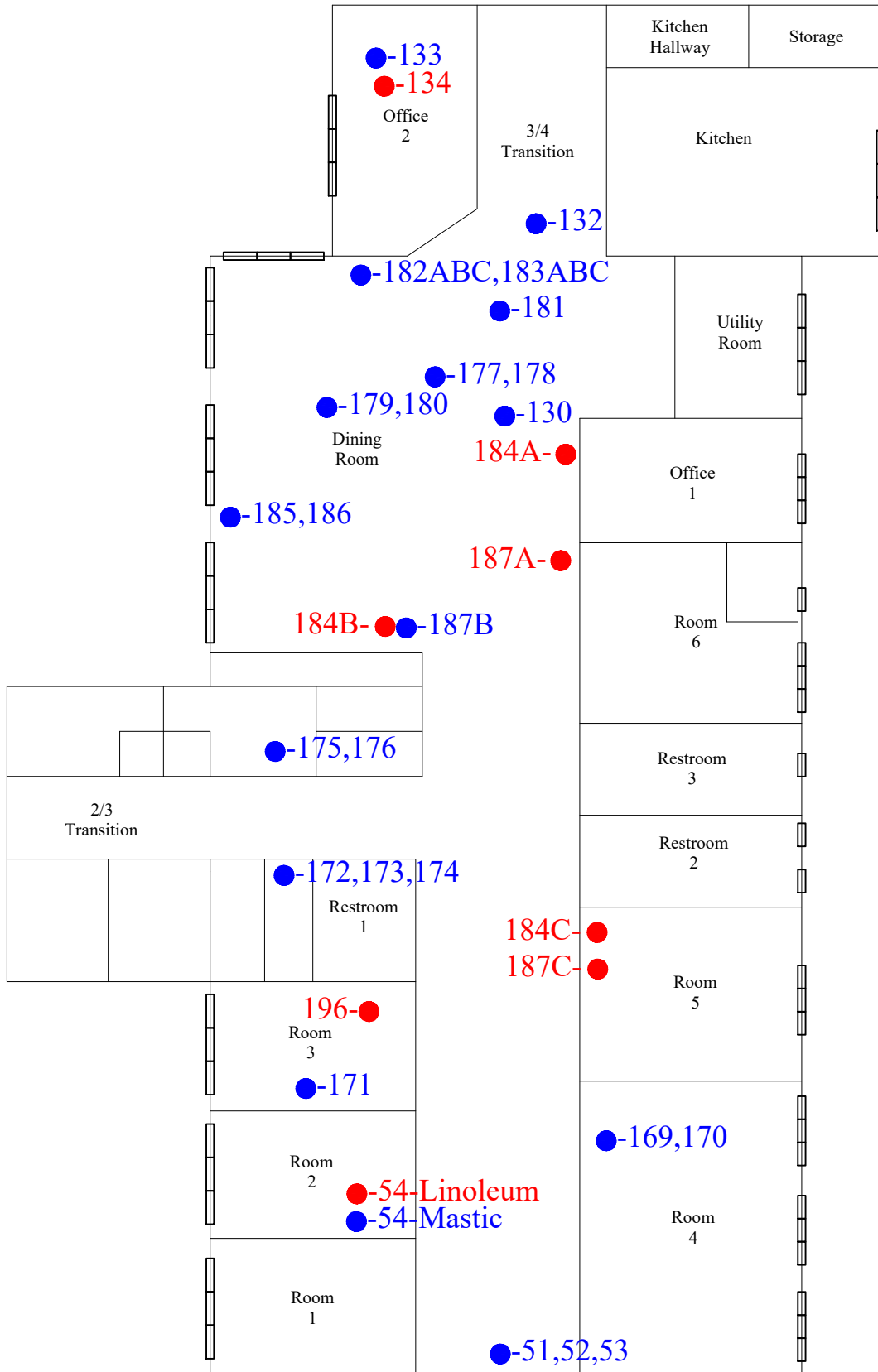
Legend
 ● -Positive ACM
 ● -Negative ACM

DATE:	03/16/23
DRAWN BY:	TS
CHECKED BY:	JD
SCALE:	N/A
PROJECT NO.:	City of Fort Dodge-Brownfield Cleanup

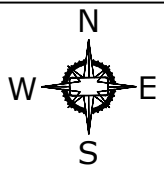
JOB DESCRIPTION:	Brownfield Cleanup Grant-ACM Inspection 1305 N 22nd Street Fort Dodge, Iowa
SHEET TITLE:	Sample Location Map Building 2 - 1st Story



Building 3



Legend
 ● -Positive ACM
 ● -Negative ACM

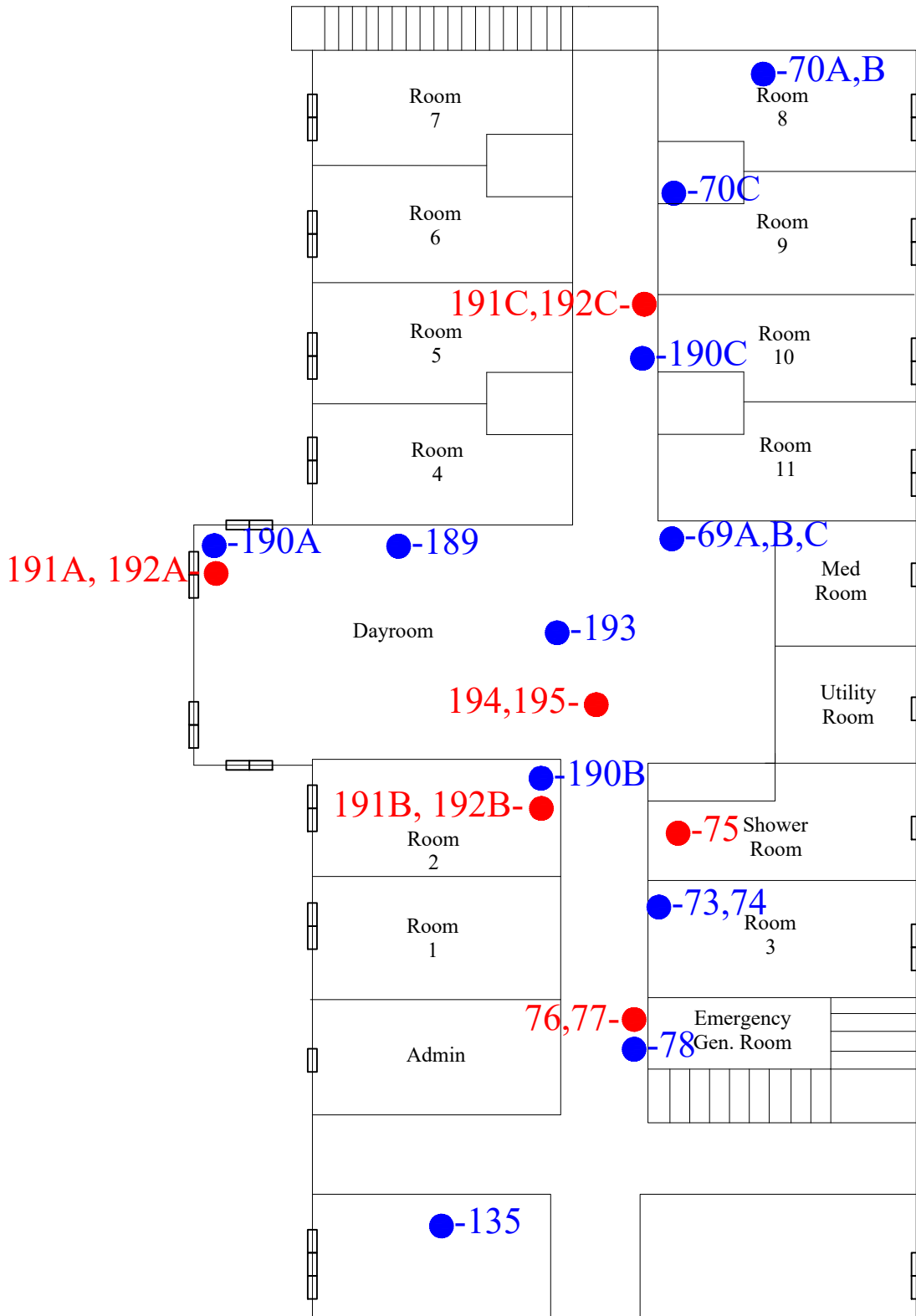


JOB DESCRIPTION: Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

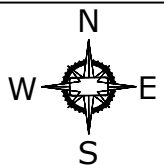
SHEET TITLE: Sample Location Map
 Building 3 - 1st Story

DATE: 03/16/23
DRAWN BY: TS
CHECKED BY: JD
SCALE: N/A
PROJECT NO.: City of Fort Dodge-Brownfield Cleanup

Building 4 1st Story



Legend
● -Positive ACM
● -Negative ACM

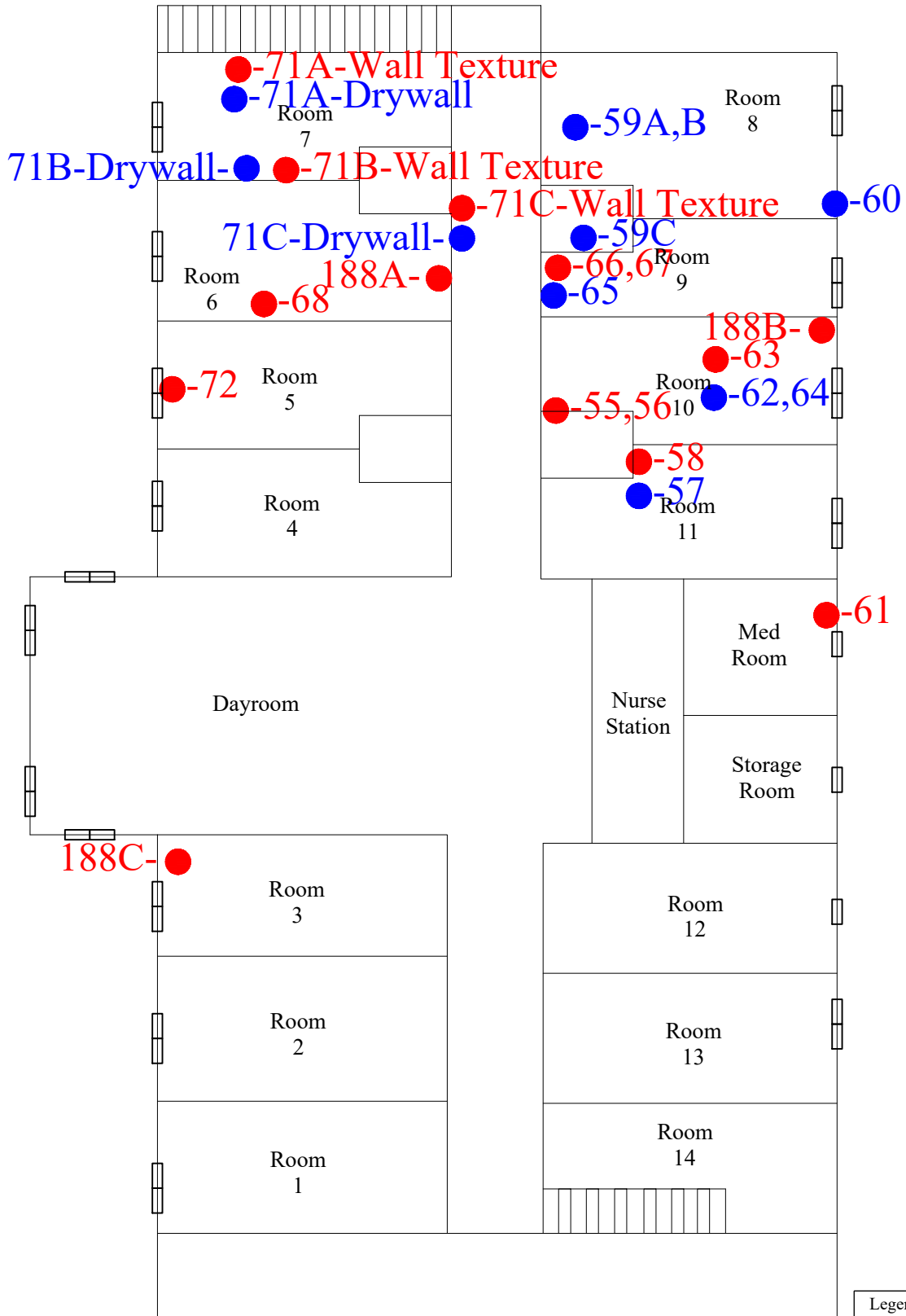


JOB DESCRIPTION: Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

SHEET TITLE: Sample Location Map
 Building 4 - 1st Story

DATE: 03/16/23
 DRAWN BY: TS
 CHECKED BY: JD
 SCALE: N/A
 PROJECT NO: City of Fort Dodge-Brownfield Cleanup

Building 4 2nd Story



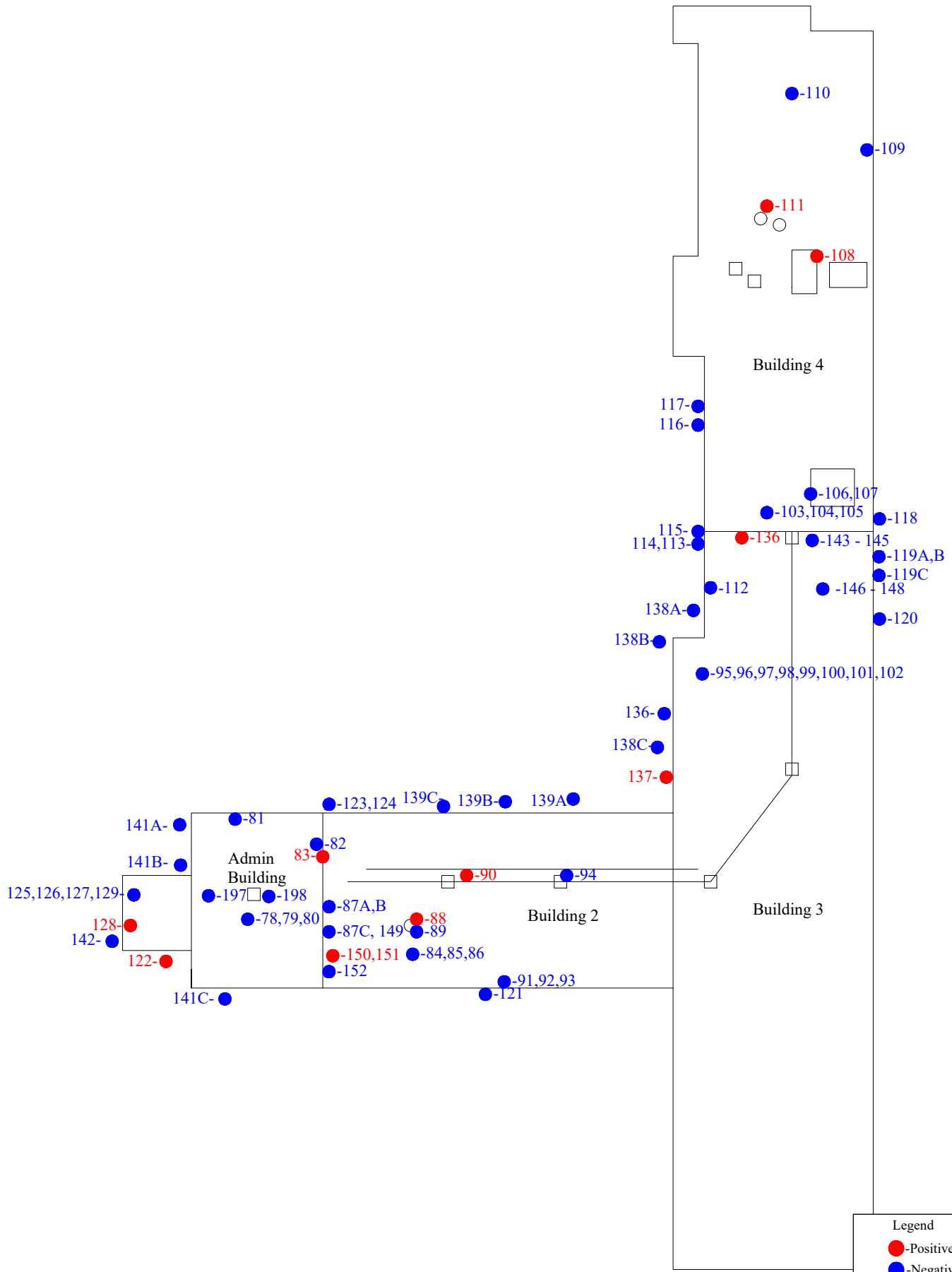
Legend
● -Positive ACM
● -Negative ACM



JOB DESCRIPTION:
 Brownfield Cleanup Grant-ACM Inspection
 1305 N 22nd Street
 Fort Dodge, Iowa

SHEET TITLE:
 Sample Location Map
 Building 4 - 2nd Story

DATE: 03/16/23
DRAWN BY: TS
CHECKED BY: JD
SCALE: N/A
PROJECT NO.: City of Fort Dodge-Brownfield Cleanup



Legend

- -Positive ACM
- -Negative ACM



JOB DESCRIPTION: Brownfield Cleanup Grant-ACM Inspection
1305 N 22nd Street
Fort Dodge, Iowa

SHEET TITLE: Sample Location Map
Exterior and Roof

DATE: 03/16/23

DRAWN BY: TS

CHECKED BY: JD

SCALE: N/A

PROJECT NO: City of Fort Dodge-Brownfield Cleanup

APPENDIX C

Green and Sustainable Remediation Best Management Practices

