HAZARDOUS / REGULATED MATERIALS SURVEY REPORT

13992 Alma
Detroit, Michigan

April 26, 2019

PREPARED FOR:

City of Detroit Housing & Revitalization Department (HRD)
Demolition Division
2 Woodward Ave Suite 908
Detroit, MI 48226

INSPECTOR:

Eddie Bosas, Accreditation Number A50538

REVIEWED AND APPROVED BY:

Renee Whitlock Accreditation Number A46539

REVIEWED AND APPROVED BY:

Ryan Montri Accreditation Number A41444

Hazardous/Regulated Materials Survey
Executive Summary[1]

Survey Information	
Project Name:	13992 Alma
Project Number:	2018 PSC 1.14.2019F
Parcel ID:	21014701.
Site Address:	13992 Alma St, Detroit, Michigan, 48205
Date of Survey/Inspection:	03/20/2019
Report Date:	04/26/2019
Company Name:	The Mannik & Smith Group, Inc.
Inspector Name:	Eddie Bosas
Inspector ID#:	A50538
Inspector Email:	EBosas@manniksmithgroup.com
Inspector Phone:	(734)-397-3100
Date of Re-Inspection:	NA

Building Information	
No.of Building(s):	2
No.of stories:	2
Year Built:	1941
Construction Type:	Wooden Frame with Brick/Asphalt Exterior
Square footage:	1616 SF
Foundation:	Basement
Basement Square footage:	1100 SF
Garage Present :	Yes - Detached
Garage Square footage:	400 SF
Building Exterior:	Wooden Frame with Wood Exterior
Roof:	Intact

[1] The Executive Summary articulates selective findings and is provided solely for the purposes of overview, and should not be counted upon to provide details in its entirety for the parcel and results.

ASBESTOS CONTAINING MATERIALS RESULTS

Material Number & Sample Number*	Material Description	Adhesive	Material Location	Estimated Quantity
HM 4, AS 4-1	Exterior Caulk	NA	Exterior	550 LF
HM 6, AS 6-1	Expansion Joint	NA	Exterior	30 LF
HM 20, AS 20-1	Aircell	NA	RM-5, Basement	40 LF

ASSUMED ASBESTOS CONTAINING MATERIALS

Material Description	Material Location	Estimated Quantity
Phone Junction Heat Shield	Basement	1 Each
Window Glaze	Exterior	12 Each

SUSPECTED HAZMATS SUMMARY

Inspection item	Constituent of Concern	Size/Quantity	Notes/Location
Mercury Thermostat	Mercury	1	RM-15
Smoke Detector	Mercury/Radioactive	1	RM-8
Car Tires	Disposal	2	Exterior
Gas Regulator	Mercury	1	Basement
Light Ballast	PCB	1	RM-7

SUBJECT PROPERTY OBSERVATIONS

Access Issues	Basement / Crawlspace – (FS 0)	1st floor – (FS 1)	2nd floor - (FS 2)	Attic – (FS 3)	Roof – (EA 4)
Areas of collapse and or unsafe to access*:	-	-	-	-	-
Areas filled with debris greater than 50%:		-	-	-	-
Flooding within the building	☐ Yes ☑No				
Fire damage materials present	☐ Yes ☑ No				
Debris within the building	☐ Yes ☑ No				

* Inaccessible areas are presumed to have asbestos containing materials.

- Denotes materials or conditions were not identified.

x Denotes areas with observed conditions present.

TECHNICAL SKILL.
CREATIVE SPIRIT.

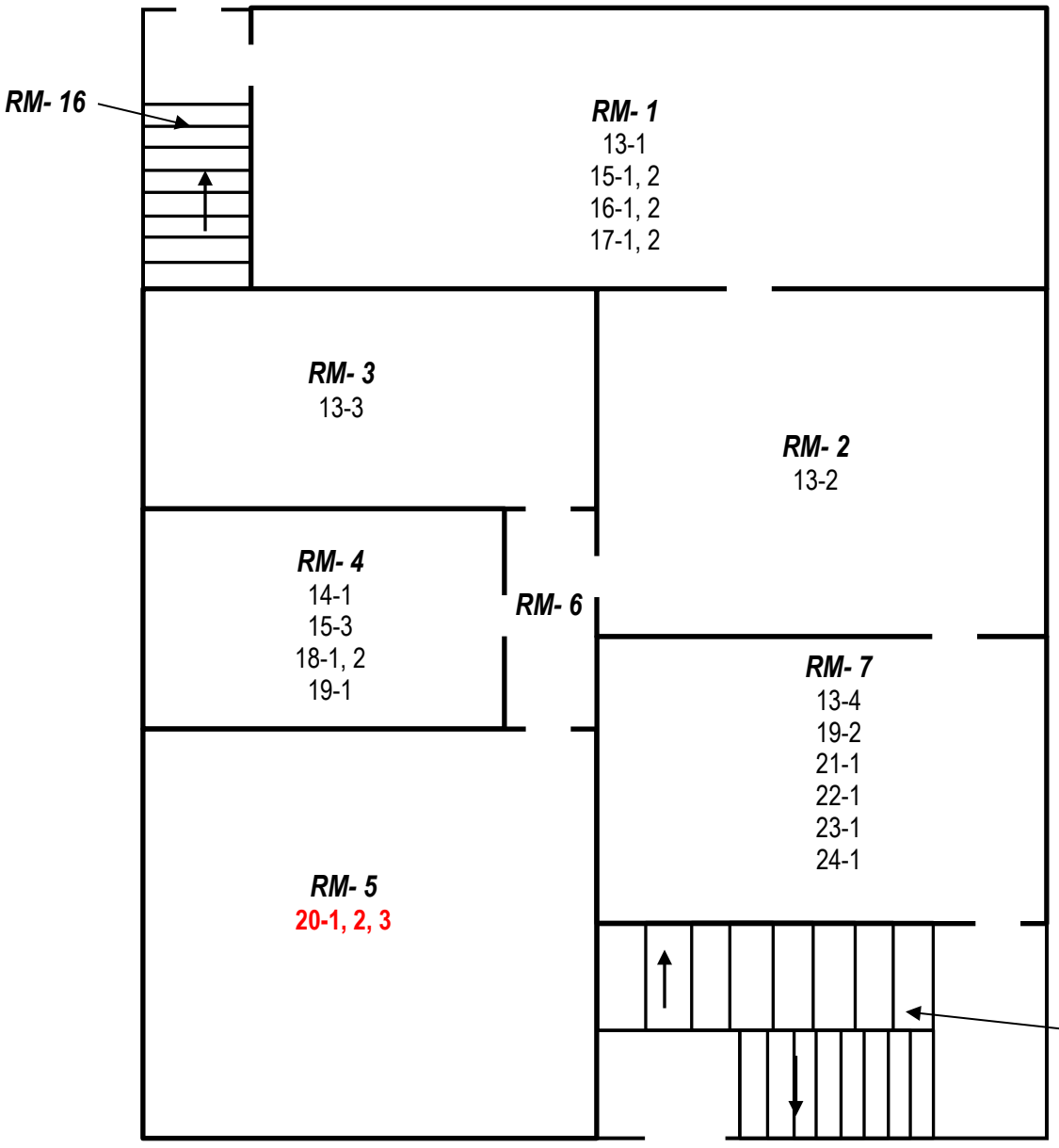
2365 Haggerty Rd South, Canton, MI 48188 Tel: 734.397.3100 Fax: 734.397.3131 www.MannikSmithGroup.com

Address: 13992 Alma **Date**: 03/20/2019

Drawing not to scale

Loose Windows with Glaze Observed (Interior and Exterior) and Presumed as an Asbestos Containing Material

First Floor



Exterior
1-1, 2
2-1, 2
3-1, 2
4-1, 2
5-1, 2
6-1, 2
7-1, 2
8-1, 2
9-1, 2
10-1, 2
11-1, 2
12-1, 2

#-# = Asbestos Sample
BOLD and Red= ACM

TECHNICAL SKILL.
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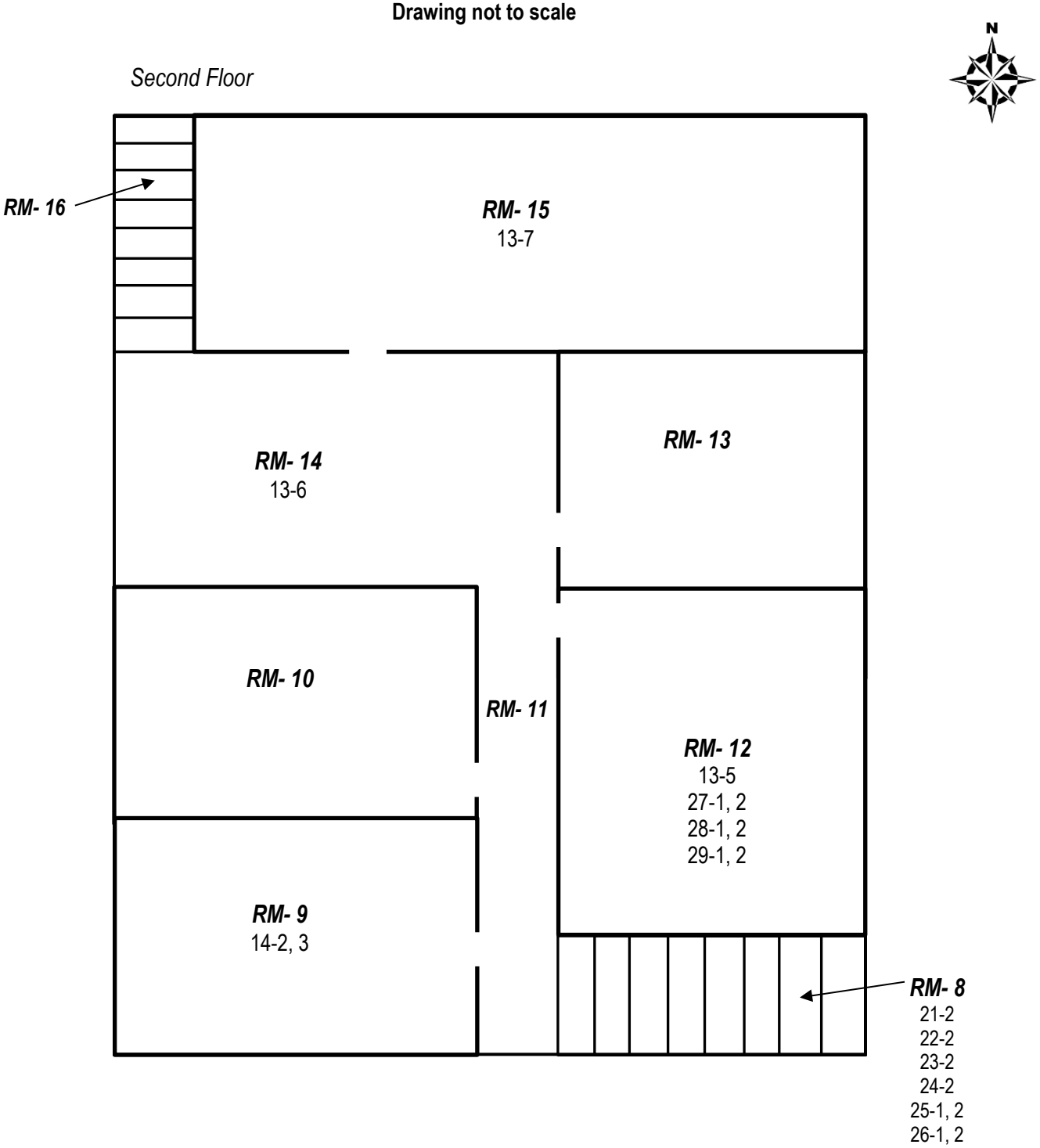
Address: 13992 Alma **Date**: 03/20/2019

Drawing not to scale

Second Floor



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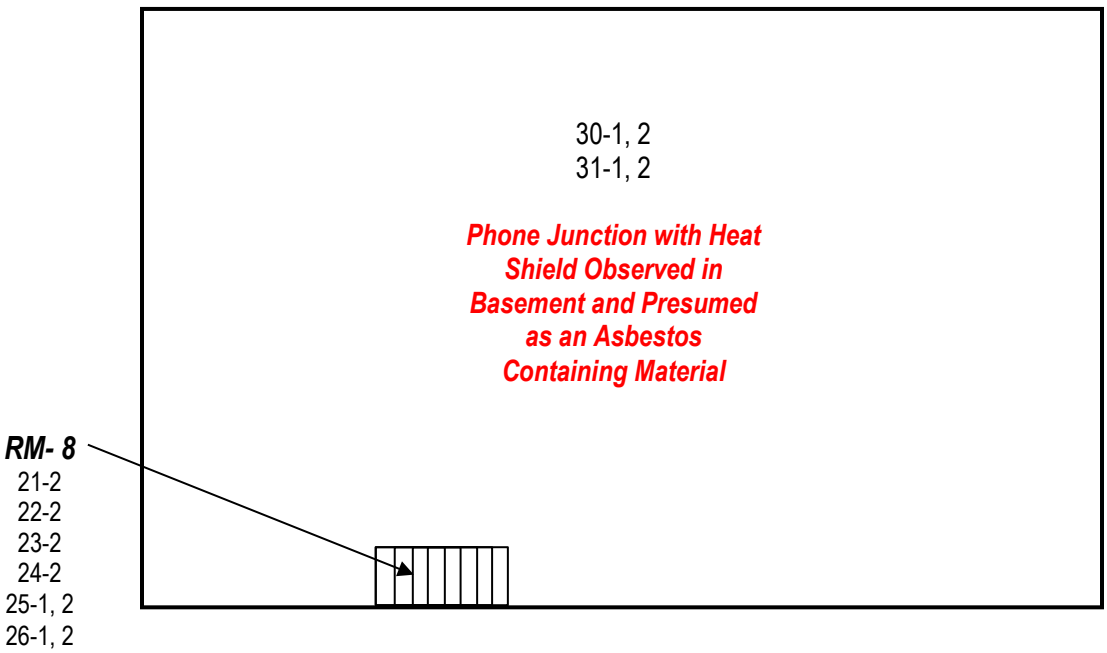
Address: 13992 Alma **Date**: 03/20/2019

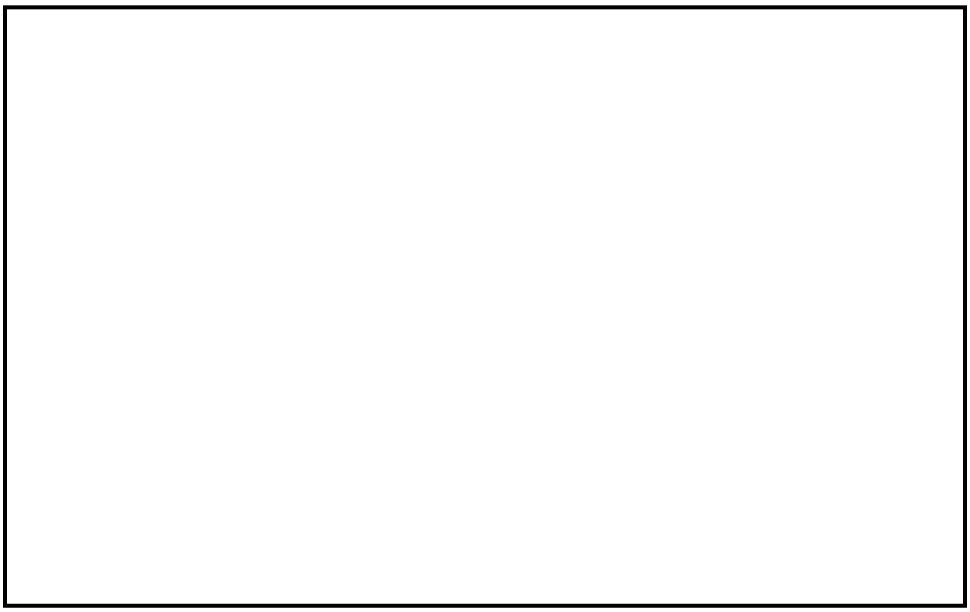
Drawing not to scale

N

Basement



Garage



#-# = Asbestos Sample
BOLD and Red= ACM

City of Detroit
13992 Alma St, Detroit, Michigan, 48205
Photographs taken by: Eddie Bosas on 03/20/2019

Property Photos

13992 Alma, Front of House

Back of House

Left Side of House

Right Side of House

Functional Spaces

RM-1

RM-4

RM-2

RM-5

RM-3

RM-6

Functional Spaces

RM-7

RM-10

RM-8

RM-11

RM-9

RM-12

Functional Spaces

RM-13

RM-16

RM-14

Basement

RM-15

Attic

Samples

Sample ID: AS 1-1
Notes: Gray Brick Mortar

Sample ID: AS 2-2
Notes: Red Brick Mortar

Sample ID: AS 1-2
Notes: Gray Brick Mortar

Sample ID: AS 3-1
Notes: Porch Concrete

Sample ID: AS 2-1
Notes: Red Brick Mortar

Sample ID: AS 3-2
Notes: Porch Concrete

Samples

Sample ID: AS 4-1
Notes: Exterior Caulk

Sample ID: AS 5-2
Notes: House Window Glaze

Sample ID: AS 4-2
Notes: Exterior Caulk

Sample ID: AS 6-1
Notes: Expansion Joint

Sample ID: AS 5-1
Notes: House Window Glaze

Sample ID: AS 6-2
Notes: Expansion Joint

Samples

Sample ID: AS 7-1
Notes: Red Roof Shingle

Sample ID: AS 8-2
Notes: Green Roof Shingle

Sample ID: AS 7-2
Notes: Red Roof Shingle

Sample ID: AS 9-1
Notes: Roof Tar

Sample ID: AS 8-1
Notes: Green Roof Shingle

Sample ID: AS 9-2
Notes: Roof Tar

Samples

Sample ID: AS 10-1
Notes: Red Octagonal Asphalt Siding

Sample ID: AS 11-2
Notes: Black Siding Underlayment

Sample ID: AS 10-2
Notes: Red Octagonal Asphalt Siding

Sample ID: AS 12-1
Notes: Red Square Asphalt Siding

Sample ID: AS 11-1
Notes: Black Siding Underlayment

Sample ID: AS 12-2
Notes: Red Square Asphalt Siding

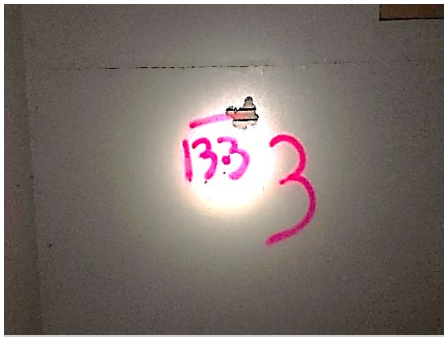
Samples

Sample ID: AS 13-1
Notes: Plaster

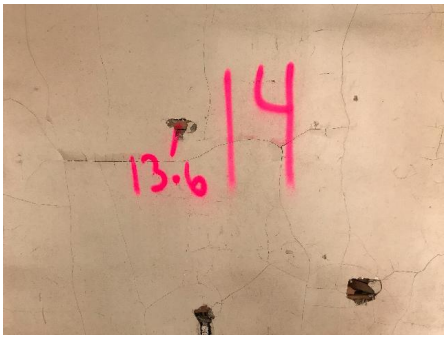
Sample ID: AS 13-4
Notes: Plaster

Sample ID: AS 13-2
Notes: Plaster

Sample ID: AS 13-5
Notes: Plaster

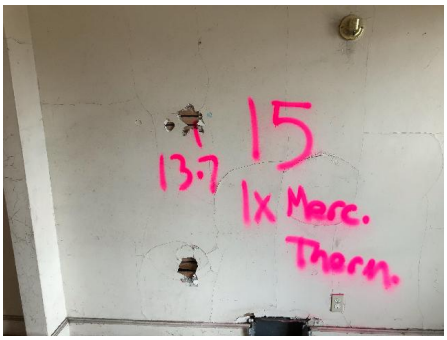


Sample ID: AS 13-3
Notes: Plaster



Sample ID: AS 13-6
Notes: Plaster

Samples



Sample ID: AS 13-7
Notes: Plaster

Sample ID: AS 14-3
Notes: Drywall with Joint Compound

Sample ID: AS 14-1
Notes: Drywall with Joint Compound

Sample ID: AS 15-1
Notes: Plaster on Backerboard

Sample ID: AS 14-2
Notes: Drywall with Joint Compound

Sample ID: AS 15-2
Notes: Plaster on Backerboard

Samples

Sample ID: AS 15-3
Notes: Plaster on Backerboard

Sample ID: AS 17-1
Notes: Ceramic Tile Floor Mortar

Sample ID: AS 16-1
Notes: Fire Brick

Sample ID: AS 17-2
Notes: Ceramic Tile Floor Mortar

Sample ID: AS 16-2
Notes: Fire Brick

Sample ID: AS 18-1
Notes: Ceramic Tile Wall Mortar

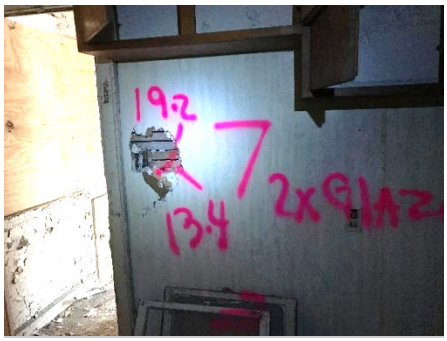
Samples

Sample ID: AS 18-2
Notes: Ceramic Tile Wall Mortar

Sample ID: AS 20-1
Notes: Aircell

Sample ID: AS 19-1
Notes: Brown Glue

Sample ID: AS 20-2
Notes: Aircell



Sample ID: AS 19-2
Notes: Brown Glue

Sample ID: AS 20-3
Notes: Aircell

Samples

Sample ID: AS 21-1
Notes: Stone 12” Floor Tile

Sample ID: AS 22-2
Notes: Yellow 12” Floor Tile

Sample ID: AS 21-2
Notes: Stone 12” Floor Tile

Sample ID: AS 23-1
Notes: Yellow Linoleum

Sample ID: AS 22-1
Notes: Yellow 12” Floor Tile

Sample ID: AS 23-2
Notes: Yellow Linoleum

Samples

Sample ID: AS 24-1
Notes: Swirl Linoleum

Sample ID: AS 25-2
Notes: Stair Tread

Sample ID: AS 24-2
Notes: Swirl Linoleum

Sample ID: AS 26-1
Notes: Brown Linoleum

Sample ID: AS 25-1
Notes: Stair Tread

Sample ID: AS 26-2
Notes: Brown Linoleum

Samples

Sample ID: AS 27-1
Notes: Black 12" Floor Tile

Sample ID: AS 28-2
Notes: Mud Board

Sample ID: AS 27-2
Notes: Black 12" Floor Tile

Sample ID: AS 29-1
Notes: Window Rope

Sample ID: AS 28-1
Notes: Mud Board

Sample ID: AS 29-2
Notes: Window Rope

Samples

Sample ID: AS 30-1
Notes: Foundation Concrete

Sample ID: AS 31-2
Notes: Stack Cement

Sample ID: AS 30-2
Notes: Foundation Concrete

Sample ID: AS 31-1
Notes: Stack Cement

Universal Waste and Hazardous Materials

1
Mercury Thermostat
RM-15

1
Gas Regulator
Basement

1
Smoke Detector
RM-8

1
Light Ballast
RM-7

2
Car Tires
Exterior

Additional Photos – Garage

13992 Alma, Front of Garage

Back of Garage

Left Side of Garage

Right Side of Garage

Garage Roof

Garage Interior

Additional Photos

Aircell in Basement Running Up to RM-5

Additional Photos – Presumed ACM

Phone Junction Heat Shield
Basement
1 Each

Loose Windows with Glaze
Interior and Exterior
12 Each

TABLE 1
Asbestos Sampling Results

Client	City of Detroit
Survey Location	13992 Alma, Detroit, MI
Survey Date	March 20, 2019

Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
Exterior	AS 1-1	1	Gray Brick Mortar	non-friable	fair	Miscellaneous	No	None Detected	3500 SF
Exterior	AS 1-2	1	Gray Brick Mortar	non-friable	fair	Miscellaneous	No	None Detected	
Exterior	AS 2-1	2	Red Brick Mortar	non-friable	fair	Miscellaneous	No	None Detected	4500 SF
Exterior	AS 2-2	2	Red Brick Mortar	non-friable	fair	Miscellaneous	No	None Detected	
Exterior	AS 3-1	3	Porch Concrete	non-friable	fair	Miscellaneous	No	None Detected	500 SF
Exterior	AS 3-2	3	Porch Concrete	non-friable	fair	Miscellaneous	No	None Detected	
Exterior	**AS 4-1**	**4**	**Exterior Caulk**	**non-friable**	**fair**	**Miscellaneous**	**Yes**	**10% Chrysotile**	**550 LF**
Exterior	**AS 4-2**	**4**	**Exterior Caulk**	**non-friable**	**fair**	**Miscellaneous**	**Yes**	**Not Analyzed**	
Exterior	AS 5-1	5	House Window Glaze	non-friable	fair	Miscellaneous	No	None Detected	25 each
Exterior	AS 5-2	5	House Window Glaze	non-friable	fair	Miscellaneous	No	None Detected	
Exterior	**AS 6-1**	**6**	**Expansion Joint**	**non-friable**	**fair**	**Miscellaneous**	**Yes**	**5% Chrysotile**	**30 LF**
Exterior	**AS 6-2**	**6**	**Expansion Joint**	**non-friable**	**fair**	**Miscellaneous**	**Yes**	**Not Analyzed**	
Roof	AS 7-1	7	Red Roof Shingle	non-friable	fair	Miscellaneous	No	None Detected	3000 SF
Roof	AS 7-2	7	Red Roof Shingle	non-friable	fair	Miscellaneous	No	None Detected	
Roof	AS 8-1	8	Green Roof Shingle	non-friable	fair	Miscellaneous	No	None Detected	3000 SF
Roof	AS 8-2	8	Green Roof Shingle	non-friable	fair	Miscellaneous	No	None Detected	
Roof	AS 9-1	9	Roof Tar	non-friable	fair	Miscellaneous	No	None Detected	300 LF
Roof	AS 9-2	9	Roof Tar	non-friable	fair	Miscellaneous	No	None Detected	

TABLE 1
Asbestos Sampling Results

Client	City of Detroit
Survey Location	13992 Alma, Detroit, MI
Survey Date	March 20, 2019

Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
Exterior	AS 10-1	10	Red Octagonal Asphalt Siding	non-friable	fair	Miscellaneous	No	None Detected	3000 SF
Exterior	AS 10-2	10	Red Octagonal Asphalt Siding	non-friable	fair	Miscellaneous	No	None Detected	
Exterior	AS 11-1	11	Black Siding Underlayment	non-friable	fair	Miscellaneous	No	None Detected	4000 SF
Exterior	AS 11-2	11	Black Siding Underlayment	non-friable	fair	Miscellaneous	No	None Detected	
Exterior	AS 12-1	12	Red Square Asphalt Siding	non-friable	fair	Miscellaneous	No	None Detected	1800 SF
Exterior	AS 12-2	12	Red Square Asphalt Siding	non-friable	fair	Miscellaneous	No	None Detected	
RM-1	AS 13-1	13	Plaster	non-friable	fair	Surfacing	No	None Detected	6900 SF
RM-2	AS 13-2	13	Plaster	non-friable	fair	Surfacing	No	None Detected	
RM-3	AS 13-3	13	Plaster	non-friable	fair	Surfacing	No	None Detected	
RM-7	AS 13-4	13	Plaster	non-friable	fair	Surfacing	No	None Detected	
RM-12	AS 13-5	13	Plaster	non-friable	fair	Surfacing	No	None Detected	
RM-14	AS 13-6	13	Plaster	non-friable	fair	Surfacing	No	None Detected	
RM-15	AS 13-7	13	Plaster	non-friable	fair	Surfacing	No	None Detected	
RM-4	AS 14-1	14	Drywall with Joint Compound	non-friable	fair	Surfacing	No	None Detected	900 SF
RM-9	AS 14-2	14	Drywall with Joint Compound	non-friable	fair	Surfacing	No	None Detected	
RM-9	AS 14-3	14	Drywall with Joint Compound	non-friable	fair	Surfacing	No	None Detected	

TABLE 1
Asbestos Sampling Results

Client	City of Detroit
Survey Location	13992 Alma, Detroit, MI
Survey Date	March 20, 2019

Functional Area	Sample ID	HM #	Homogeneous Material Group	Friable/Non Friable	Condition	EPA Classification	RACM	Asbestos	Quantity
RM-2	AS 15-1	15	Plaster on Backerboard	non-friable	fair	Surfacing	No	None Detected	400 SF
RM-2	AS 15-2	15	Plaster on Backerboard	non-friable	fair	Surfacing	No	None Detected	
RM-4	AS 15-3	15	Plaster on Backerboard	non-friable	fair	Surfacing	No	None Detected	
RM-1	AS 16-1	16	Fire Brick	non-friable	fair	Miscellaneous	No	None Detected	60 SF
RM-1	AS 16-2	16	Fire Brick	non-friable	fair	Miscellaneous	No	None Detected	
RM-1	AS 17-1	17	Ceramic Tile Floor Mortar	non-friable	fair	Miscellaneous	No	None Detected	450 SF
RM-1	AS 17-2	17	Ceramic Tile Floor Mortar	non-friable	fair	Miscellaneous	No	None Detected	
RM-4	AS 18-1	18	Ceramic Tile Wall Mortar	non-friable	fair	Miscellaneous	No	None Detected	50 SF
RM-4	AS 18-2	18	Ceramic Tile Wall Mortar	non-friable	fair	Miscellaneous	No	None Detected	
RM-4	AS 19-1	19	Brown Glue	non-friable	fair	Miscellaneous	No	None Detected	1100 SF
RM-7	AS 19-2	19	Brown Glue	non-friable	fair	Miscellaneous	No	None Detected	
RM-5	**AS 20-1**	**20**	**Aircell**	**friable**	**fair**	**TSI**	**Yes**	**60% Chrysotile**	**40 LF**
RM-5	**AS 20-2**	**20**	**Aircell**	**friable**	**fair**	**TSI**	**Yes**	**Not Analyzed**	
RM-5	**AS 20-3**	**20**	**Aircell**	**friable**	**fair**	**TSI**	**Yes**	**Not Analyzed**	
RM-7	AS 21-1	21	Stone 12” Floor Tile	non-friable	fair	Miscellaneous	No	None Detected	150 SF
RM-8	AS 21-2	21	Stone 12” Floor Tile	non-friable	fair	Miscellaneous	No	None Detected	
RM-7	AS 22-1	22	Yellow 12” Floor Tile	non-friable	fair	Miscellaneous	No	None Detected	150 SF
RM-8	AS 22-2	22	Yellow 12” Floor Tile	non-friable	fair	Miscellaneous	No	None Detected	

TABLE 1
Asbestos Sampling Results

Client	City of Detroit								
Survey Location	13992 Alma, Detroit, MI								
Survey Date	March 20, 2019								
Functional Area	**Sample ID**	**HM #**	**Homogeneous Material Group**	**Friable/Non Friable**	**Condition**	**EPA Classification**	**RACM**	**Asbestos**	**Quantity**
RM-7	AS 23-1	23	Yellow Linoleum	non-friable	fair	Miscellaneous	No	None Detected	150 SF
RM-8	AS 23-2	23	Yellow Linoleum	non-friable	fair	Miscellaneous	No	None Detected	
RM-7	AS 24-1	24	Swirl Linoleum	non-friable	fair	Miscellaneous	No	None Detected	150 SF
RM-8	AS 24-2	24	Swirl Linoleum	non-friable	fair	Miscellaneous	No	None Detected	
RM-8	AS 25-1	25	Stair Tread	non-friable	fair	Miscellaneous	No	None Detected	40 SF
RM-8	AS 25-2	25	Stair Tread	non-friable	fair	Miscellaneous	No	None Detected	
RM-8	AS 26-1	26	Brown Linoleum	non-friable	fair	Miscellaneous	No	None Detected	90 SF
RM-8	AS 26-2	26	Brown Linoleum	non-friable	fair	Miscellaneous	No	None Detected	
RM-12	AS 27-1	27	Black 12” Floor Tile	non-friable	fair	Miscellaneous	No	None Detected	160 SF
RM-12	AS 27-2	27	Black 12” Floor Tile	non-friable	fair	Miscellaneous	No	None Detected	
RM-12	AS 28-1	28	Mud Board	non-friable	fair	Miscellaneous	No	None Detected	160 SF
RM-12	AS 28-2	28	Mud Board	non-friable	fair	Miscellaneous	No	None Detected	
RM-12	AS 29-1	29	Window Rope	non-friable	fair	Miscellaneous	No	None Detected	250 LF
RM-12	AS 29-2	29	Window Rope	non-friable	fair	Miscellaneous	No	None Detected	
Basement	AS 30-1	30	Foundation Concrete	non-friable	fair	Miscellaneous	No	None Detected	1100 SF
Basement	AS 30-2	30	Foundation Concrete	non-friable	fair	Miscellaneous	No	None Detected	
Basement	AS 31-1	31	Stack Cement	non-friable	fair	Miscellaneous	No	None Detected	4 SF
Basement	AS 31-2	31	Stack Cement	non-friable	fair	Miscellaneous	No	None Detected	
Basement			**Phone Junction Heat Shield**	**Presumed Asbestos Containing Material**					**1 Each**
Interior and Exterior			**Loose Windows with Glaze**	**Presumed Asbestos Containing Material**					**12 Each**

Table 2
Universal Waste, Hazardous Materials, and Other Regulated Materials Inventory
13992 Alma
Detroit, Wayne County, Michigan

Inspection Item	Constituent of Concern	Size/Quantity	Notes/Location
Mercury Thermostat	Mercury	1	RM-15
Smoke Detector	Mercury/Radioactive	1	RM-8
Car Tires	Disposal	2	Exterior
Gas Regulator	Mercury	1	Basement
Light Ballast	PCB	1	RM-7

Report Compendium

PURPOSE AND SCOPE OF WORK

The purpose of the Hazardous and Regulated Materials Survey (HMS) was to identify, quantify and document the location of regulated materials that may be encountered during demolition of the on-site structure. To accomplish this purpose, MSG performed the following scope of work:

1. Pre-demolition asbestos-containing material (ACM) survey.
2. Universal wastes, hazardous materials, and other regulated wastes survey.

METHODOLOGIES

The HMS was conducted on March 20, 2019. Methodologies employed during the completion of each task of the HMS are detailed below.

ACM Survey Procedures

The ACM survey is performed in general accordance with guidelines set forth in the Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763. The National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations govern demolition and renovation activities in which asbestos is present. The NESHAP rule distinguishes between Regulated Asbestos-Containing Materials (RACM) that would readily release asbestos fibers when damaged or disturbed and those materials that are unlikely to result in significant fiber release during demolition activities. The purpose of this survey is to determine if ACM within the Site building are RACM and thus, subject to the NESHAP, and to comply with the Michigan Occupational Safety and Health Administration (MIOSHA) and guidelines set forth in the Occupational Safety and Health Administration (OSHA) Regulations Standards 29 CFR 1910.1101.

RACM, as defined by NESHAP, is classified into four parts, (1) friable asbestos material, (2) Category I non-friable ACM (packing, gaskets, floor tile and roofing products) that has become friable, (3) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (4) Category II non-friable ACM (all other ACM products) that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The suspect ACM identified during this survey was grouped into homogeneous materials (i.e. similar materials which are uniform in color and texture) and:

- Described and quantified it in linear feet (LF) or square feet (SF);
- Identified and classified as friable or non-friable;
- Assessed as being in good, fair or poor condition;
- Assigned an EPA classification type (surfacing material, thermal system insulation or miscellaneous);
- Classified as RACM or non-RACM; and
- Sampled, or identified as presumed ACM (PACM).

MSG performed services associated with this ACM survey in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. ACM surveys are conducted by a systematic visual inspection of all safely accessible areas of the Site building. Destructive sampling methods are used to inspect and collect samples from hidden areas (behind plaster walls, sub-layers of flooring/mastic, ceiling tiles, etc.) Suspect ACM samples are identified and collected by State of Michigan Accredited Asbestos Inspectors (Eddie Bosas, Accreditation Number A50538, assisted by Wiley Davenport, Accreditation Number A46970). Based on the quantity of each classification of suspect ACM, the MSG Inspector collects samples in accordance with EPA guidelines.

Universal Wastes and Hazardous Material Survey Procedures

MSG Environmental Professional pursuant to 40 CFR 312.10 identifies and takes inventory of universal wastes and hazardous materials by a visual reconnaissance of the Site. Materials are identified, described, and quantified to the extent possible; however, no equipment or containers are opened and/or sampled as part of this survey.

A hazardous material, as defined in OSHA 29 CFR 1910.1200, is any item or chemical which is a "health hazard" or "physical hazard", including the following:

- Chemicals that are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, hepatotoxins, nephrotoxins, neurotoxins, agents that act on the hematopoietic system, and agents that damage the lungs, skin, eyes, or mucous membranes;
- Chemicals that are combustible liquids, compressed gases, explosives, flammable liquids, flammable solids, organic peroxides, oxidizers, pyrophorics, unstable (reactive) or water-reactive;
- Chemicals that, in the course of normal handling, use or storage, may produce or release dusts, gases, fumes, vapors, mists or smoke which have any of the above characteristics; and
- Any item or chemical which, when being transported or moved, is a risk to public safety or an environmental hazard, and is regulated as such by one or more of the following:
    - DOT - Department of Transportation; Hazardous Materials Regulations (49 CFR 100-180);
    - IMO - International Maritime Organization; International Maritime Dangerous Goods (IMDG) Code;
    - IATA - International Air Transport Association; Dangerous Goods Regulations;
    - ICAO - International Civil Aviation Organization; Technical Instructions; and
    - AF - Air Force "INTERSERVICE" Manual, Preparing Hazmat for Military Air Shipments (AFMAN 24-204).

Hazardous materials may also include:

- Any item or chemical listed in the United States Environmental Protection Agency (USEPA) List of Hazardous Substances and Reportable Quantities, dated September 1992.
- Noticeable as inventory under the reporting requirements of the Hazardous Chemical Reporting (40 CFR Part 302).
- An environmental release under the reporting requirements of the Toxic Chemical Release Reporting: Community Right To Know (40 CFR Part 372) or under Part 201, Environmental Remediation of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Part 201) and Part 213, Leaking Underground Storage Tanks (Part 213).

Universal wastes are waste that comes primarily from consumer products containing mercury, lead, cadmium or other substances that are hazardous to human health and the environment. These items cannot be discarded in household trash nor disposed of in landfills but have less stringent handling and disposal requirements than hazardous waste streams. In Michigan, universal wastes are regulated by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) - Office of Waste Management and Radiological Protection under Part 111 of Act 451 and the federal Resource Conservation and Recovery Act (RCRA) of 1976 under 40 CFR Part 273. Universal waste is also regulated by the US Department of Transportation (US DOT) under 49 CFR Parts 171 through 180. Most of the universal waste requirements overseen by EGLE are addressed by R 299.9228 of Part 111 of 1994 P.A. 451, as amended and 40 CFR Part 273. These regulations are designed to encourage proper collection, recycling, treatment, or disposal of these wastes.

Examples of universal waste are mercury-containing equipment (e.g. thermostats, barometers, manometers, temperature and pressure gauges, and mercury switches), nickel-cadmium and spent lead-acid batteries, lamps (e.g. incandescent, fluorescent, high intensity discharge, neon, mercury vapor, and high pressure sodium and metal halide), pesticides, polychlorinated biphenyl (PCB) containing transformers and light ballasts, stored chemical and/or

petroleum products, etc. In Michigan, Part 111 also includes pharmaceutical and consumer electronics as additional types of universal wastes.

Other Regulated Materials

This HMS also included identifying and inventorying other regulated materials which may pose physical or chemical concerns during demolition of the Site building(s) including, whole motor vehicle scrap tires (which are illegal to dispose of in a landfill), chlorofluorocarbon (CFC) containing devices, tanks, vessels, equipment, and building materials that may contain or become contaminated with hazardous materials.

These would include chemicals with special characteristics which, in the opinion of the manufacturer, can cause harm to people, plants, or animals when released by spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other receptacles).

Specifically, CFC containing devices are regulated Under Title VI of the Clean Air Act (CAA). The Stratospheric Protection Division of the EPA manages programs protecting the stratospheric ozone layer. Title 40, Part 82 of the Code of Federal Regulations contains the EPA regulations protecting the ozone layer. The survey of the premises identified and quantified any CFC containers and CFC containing equipment, which could include the following:

- Drinking fountains, air conditioners, refrigerators
- Air conditioners in control panels and other process equipment
- Water and air chillers
- Roof top and stand-alone air conditioners
- Cafeteria equipment: freezers, walk-in coolers/freezers
- CFC canisters and cylinders

In Michigan, underground storage tanks are regulated under the authority of Part 211, Underground Storage Tank Regulations, of Act 451 of 1994, as amended, and the Michigan Underground Storage Tank Rules (MUSTR). Therefore, this survey included whether any evidence of underground storage tanks and related piping and dispensers were present at the Site.

MSG also surveyed for the presence of equipment, other storage tanks, and materials that may contain or be contaminated by regulated chemicals. These include, but may not be comprehensive of:

- Above ground storage tanks
- Oil-containing equipment (hydraulic equipment, blowers, fans, motors, elevators, compressors, etc.)
- Fire brick
- Contaminated building materials (concrete, block walls, wood, plaster, etc.) with staining, odor or other signs of a hazardous chemical release

The scrap tire management program regulates transportation, storage and disposal of scrap tires under Part 169 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. A scrap tire means a tire that is no longer being used for its original intended purpose including, but not limited to, a used tire, a reusable tire casing, or portions of tires. Scrap tire does not include a vehicle support stand.

Based on the construction age of the building(s), lead-based paint (LBP) should be assumed to be present. LBP is considered as a hazardous substance and therefore, its condition, handling, and disposal are regulated by federal, state, and local agencies. Contractors and their employers that will be disturbing the building during demolition shall follow all applicable requirements, including but not limited to, the OSHA Lead in Construction Standard.

Report Compendium

SURVEY RESULTS

The following subsections include a discussion of the HMS results. Photographs of the building are located in the Photo Log. The results of this report are valid as of the report date, subject to the limitations which are attached.

ACM Survey Results

MSG identified 31 suspect homogenous materials during the survey. Seventy (70) bulk samples were collected from these suspect homogeneous materials and were submitted to Mannik & Smith Group Analytical Laboratories (MSGAL) for laboratory analysis of Bulk Materials by Polarized Light Microscopy using USEPA Method 600/R-93/116. MSGAL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) to analyze bulk samples for asbestos content. Of the aforementioned suspect homogenous materials identified during this survey, laboratory analysis found three (3) samples containing greater than 1% asbestos (AS 4-1, AS 6-1, AS 20-1). The EPA defines ACM as materials containing greater than 1% asbestos. In addition, a phone junction with heat shield, and loos windows with glaze were observed in the basement and the interior and exterior. These materials were presumed as asbestos containing.

A point-count quantification procedure (PCQM) allows for lower detection limits than calibrated visual estimation (CVES), which is the quantification method widely used in asbestos analysis via Polarized Light Microscopy (PLM). If the asbestos content is found to contain less than 1% asbestos as determined by a method other than point counting by PLM, it can only be treated as non-ACM if verified to contain less than 1% by the PCQM. If not point-counted, the sample must be assumed to be greater than 1% and thus considered and treated as ACM. As part of this survey, zero (0) samples were analyzed using point count quantification. Asbestos was not detected in suspect materials collected from the garage.

Suspect ACM sample locations are depicted on the attached figure. The locations for ACM are listed in the executive summary. See *Table 1, Asbestos Sampling Results* for a listing of homogeneous materials identified by MSG during this survey. Functional areas on Table 1 list the locations where the sample(s) were taken. Table 1 quantities reflect the total amount of suspect ACM in all locations that it is observed. A copy of the analytical reports including chains of custody is attached at the end of this report.

Universal Wastes, Hazardous Materials, and Other Regulated Materials Survey Results

Universal wastes, hazardous materials, and/or other regulated materials wastes were identified within the Site building. Waste type, locations and quantities identified are provided in *Table 2, Universal Waste, Hazardous Materials, and Other Regulated Materials Inventory.*

CONCLUSIONS AND RECOMMENDATIONS

Asbestos Containing Materials

Of the 31 suspect homogenous materials collected as part of this survey, three (3) contained greater than 1% asbestos (AS 4-1, AS 6-1, AS 20-1) with these materials classified as RACM. In addition, a phone junction with heat shield, and loos windows with glaze were observed in the basement and the interior and exterior. These materials were presumed as asbestos containing.

Prior to demolition, a notification of intent to demolish shall be made to the EGLE-Air Quality Division (EGLE-AQD) and Licensing and Regulatory Affairs (LARA), Asbestos Program. Notification, according to the procedure described by the NESHAP, Title 40 of the Code of Federal Regulations, Part 61, Subpart M, Notification, for renovation and demolition projects should be followed.

Category I and Category II Non-Friable ACM may often be left in place during demolition activities if the ACM is not subjected to sanding, grinding, cutting, or abrading or has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material during the course of demolition.

However, this assertion should only be made by the demolition contractor when the demolition methods have been accepted by the regulatory authority to not release asbestos fibers. Debris should be presumed as ACM and disposed of accordingly. All materials containing ACM must be disposed of in a licensed landfill.

If additional suspect ACMs are discovered during demolition activities in areas that were determined during this survey to be structurally unsound and unsafe, inaccessible, concealed and/or in buried areas, shall be surveyed, tested, and abated if warranted.

Universal Wastes, Hazardous Materials, and Other Regulated Materials

The universal waste, hazardous materials, and other regulated materials (see Table 2) must be properly characterized (as necessary) and properly removed from the Site building for recycling and/or disposed of in accordance with Parts 111, 115, or 147 of Michigan Public Act 451 of 1994, as amended. If additional universal wastes, hazardous materials, and other regulated materials are discovered during demolition activities in areas that were determined during this survey to be structurally unsound and unsafe, inaccessible, concealed and/or in buried areas, these materials shall be characterized (as necessary) and properly removed in accordance with the above-mentioned regulations.

REGULATED MATERIALS SURVEY LIMITATIONS

The Mannik & Smith Group, Inc. (MSG) performed its services associated with this Regulated Materials Survey (RMS) in general accordance with guidelines set forth in the Environmental Protection Agency (EPA) 40 Code of Federal Regulations (CFR) 763, Occupational Safety and Health Administration (OHSA) 29 CFR 1926.62, and in conformance with the care and skill ordinarily used by other reputable environmental consulting firms practicing under similar conditions, at the same time, and in the same or similar locality. This RMS and related documentation are site-specific, which means they pertain to the conditions of the site surveyed.

Unless otherwise noted, MSG's RMS is limited to accessible areas. Areas determined to be not structurally sound, safely reached, limited by excessive accumulated obstructions, require specialized equipment to access, in operable windows, etc., are not included in this survey. There may be areas where regulated materials, such as suspected asbestos-containing materials (SACM) and lead containing paint cannot be viewed and/or tested. MSG shall not be responsible for identifying all SACM, lead containing paint, or other hazardous materials located in inaccessible locations, including by not limited to, above a plaster ceiling, behind a wall, embedded in concrete, buried, confined spaces, unsafe areas, or otherwise not readily identifiable.

Destructive sampling will only be conducted when permission has been granted by the owner. Destructive survey locations are limited to areas where hidden SACM, lead containing paint, or other hazardous materials is reasonably thought to be present and sampling can be conducted in a safe manner. If regulated materials are found during the course of demolition and/or renovation activities that are not listed in this report, the material should be assumed as asbestos-containing, lead containing, or hazardous until it can be sampled and analyzed at an accredited laboratory and safe work practices should always be used if those areas are to be disturbed.

MSG has prepared a logical assessment program to reduce the client's risk of discovering unknown regulated materials and/or hazardous substances. The presence of subsurface regulated materials and/or hazardous substances is based solely on surface observations and/or information provided by others. Descriptions of subsurface conditions provided in this report are not warranted to be complete or accurate. This risk may be reduced by more extensive exploration on the site, but even with additional exploration, it is not possible to completely eliminate the risk of discovering regulated materials and/or hazardous conditions. It cannot and should not be assumed that samples collected and conditions observed at the time of the RMS are representative of an area that has not been sampled and/or tested.

In preparing this report, MSG may have relied on information obtained from or provided by others. MSG makes no representation or warranty regarding the accuracy or completeness of this information gathered through outside sources or subcontracted services. No warranty, guarantee, or certification of any kind, expressed or implied, at common law or created by statute, is extended, made, or intended by rendering these environmental consulting services or by furnishing this written report. Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant after MSG has completed the scope of work for this project. Furthermore, because the facts stated in this report are subject to professional interpretation, differing conclusions could be reached by other environmental professionals.

The report is intended to offer support to a building owner, construction manager, general contractor, abatement contractor, architect, and/or other parties authorized by the owner in generally locating asbestos-containing materials (ACM), lead containing paint, universal and hazardous wastes, and/or other regulated materials. This report does not have the required components to serve as an Asbestos Project Design document, Asbestos and/or Lead Containing Paint Abatement Work Plan, and/or a Health and Safety Plan. Therefore, this report should not be utilized as a project specification document. The results, findings, conclusions, and recommendations expressed in

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this report are based only on conditions that were noted during this survey. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Quantities have been conservatively estimated and sampling locations have been described representatively; however, current site conditions should be field-verified by contractors bidding on and/or prior to abatement work.

The Mannik & Smith Group
Analytical Laboratories

L1209

Client	The Mannik & Smith Group, Inc.	Received	03/21/19	Project	13992 Alma, Detroit, MI
	2365 S. Haggerty Rd., Suite 100	Analyzed	03/25/19	Order #	L1209
	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 1-1	L1209-1	Exterior

Layer 1

Gray Brick Mortar

Type Non Detect 0.00%
Gray, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 1-2	L1209-2	Exterior

Layer 1

Gray Brick Mortar

Type Non Detect 0.00%
Gray, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 2-1	L1209-3	Exterior

Layer 1

Red Brick Mortar

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 2-2	L1209-4	Exterior

Layer 1

Red Brick Mortar

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 3-1	L1209-5	Exterior

Layer 1

Porch Concrete

Type Non Detect 0.00%
Gray, Fibrous, Homogeneous
100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

The Mannik & Smith Group
Analytical Laboratories

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	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 3-2	L1209-6	Exterior

Layer 1

Porch Concrete

Type Non Detect 0.00%

Gray, Fibrous, Homogeneous

100% non-asbestos

Client ID	Lab ID	Location
AS 4-1	**L1209-7**	**Exterior**

Layer 1

Exterior Caulk

Type **Chrysotile 10.00%**

Tan, Fibrous, Homogeneous

90% non-asbestos

Client ID	Lab ID	Location
AS 4-2	L1209-8	Exterior

Layer 1

Exterior Caulk

Type Not Analyzed -

Tan, Fibrous, Homogeneous

Client ID	Lab ID	Location
AS 5-1	L1209-9	Exterior

Layer 1

House Window Glaze

Type Non Detect 0.00%

Cream, Fibrous, Homogeneous

100% non-asbestos

Client ID	Lab ID	Location
AS 5-2	L1209-10	Exterior

Layer 1

House Window Glaze

Type Non Detect 0.00%

Cream, Fibrous, Homogeneous

100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 6-1	L1209-11	Exterior

Layer 1

Expansion Joint

Type Chrysotile 5.00%
Black, Fibrous, Homogeneous
95% non-asbestos

Client ID	Lab ID	Location
AS 6-2	L1209-12	Exterior

Layer 1

Expansion Joint

Type Not Analyzed -
Black, Fibrous, Homogeneous

Client ID	Lab ID	Location
AS 7-1	L1209-13	Roof

Layer 1

Red Roof Shingle

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 7-2	L1209-14	Roof

Layer 1

Red Roof Shingle

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 8-1	L1209-15	Roof

Layer 1

Green Roof Shingle

Type Non Detect 0.00%
Green, Fibrous, Homogeneous
100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 8-2	L1209-16	Roof

Layer 1

Green Roof Shingle

Type Non Detect 0.00%
Green, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 9-1	L1209-17	Roof

Layer 1

Roof Tar

Type Non Detect 0.00%
Black, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 9-2	L1209-18	Roof

Layer 1

Roof Tar

Type Non Detect 0.00%
Black, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 10-1	L1209-19	Exterior

Layer 1

Red Octagonal Asphalt Siding

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 10-2	L1209-20	Exterior

Layer 1

Red Octagonal Asphalt Siding

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 11-1	L1209-21	Exterior

Layer 1

Black Siding Underlayment

Type Non Detect 0.00%
Black, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 11-2	L1209-22	Exterior

Layer 1

Black Siding Underlayment

Type Non Detect 0.00%
Black, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 12-1	L1209-23	Exterior

Layer 1

Red Square Asphalt Siding

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 12-2	L1209-24	Exterior

Layer 1

Red Square Asphalt Siding

Type Non Detect 0.00%
Red, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 13-1	L1209-25	RM-1

Layer 1

Plaster

Type Non Detect 0.00%
Green, Fibrous, Homogeneous
100% non-asbestos

Layer 2

Skim Coat

Type Non Detect 0.00%
White, Fibrous, Homogeneous
100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 13-2	L1209-26	RM-2

Layer 1	Layer 2
Plaster	Skim Coat
Type Non Detect 0.00%	Type Non Detect 0.00%
Green, Fibrous, Homogeneous	White, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 13-3	L1209-27	RM-3

Layer 1	Layer 2
Plaster	Skim Coat
Type Non Detect 0.00%	Type Non Detect 0.00%
Green, Fibrous, Homogeneous	White, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 13-4	L1209-28	RM-7

Layer 1	Layer 2
Plaster	Skim Coat
Type Non Detect 0.00%	Type Non Detect 0.00%
Green, Fibrous, Homogeneous	White, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 13-5	L1209-29	RM-12

Layer 1	Layer 2
Plaster	Skim Coat
Type Non Detect 0.00%	Type Non Detect 0.00%
Green, Fibrous, Homogeneous	White, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 13-6	L1209-30	RM-14

Layer 1	Layer 2
Plaster	Skim Coat
Type Non Detect 0.00%	Type Non Detect 0.00%
Green, Fibrous, Homogeneous	White, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 13-7	L1209-31	RM-15

Layer 1	Layer 2
Plaster	Skim Coat
Type Non Detect 0.00% Green, Fibrous, Homogeneous 100% non-asbestos	Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos

Client ID	Lab ID	Location
AS 14-1	L1209-32	RM-4

Layer 1	Layer 2
Drywall with Joint Compound	Joint Compound
Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos	Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos

Client ID	Lab ID	Location
AS 14-2	L1209-33	RM-9

Layer 1	Layer 2
Drywall with Joint Compound	Joint Compound
Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos	Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos

Client ID	Lab ID	Location
AS 14-3	L1209-34	RM-9

Layer 1	Layer 2
Drywall with Joint Compound	Joint Compound
Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos	Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos

Client ID	Lab ID	Location
AS 15-1	L1209-35	RM-2

Layer 1	Layer 2	Layer 3
Plaster on Backerboard	Skim Coat	Drywall
Type Non Detect 0.00% Gray, Fibrous, Homogeneous 100% non-asbestos	Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos	Type Non Detect 0.00% White, Fibrous, Homogeneous 100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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L1209

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	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 15-2	L1209-36	RM-2

Layer 1	Layer 2	Layer 3
Plaster on Backerboard	Skim Coat	Drywall
Type Non Detect 0.00%	Type Non Detect 0.00%	Type Non Detect 0.00%
Gray, Fibrous, Homogeneous	White, Fibrous, Homogeneous	White, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 15-3	L1209-37	RM-4

Layer 1	Layer 2	Layer 3
Plaster on Backerboard	Skim Coat	Drywall
Type Non Detect 0.00%	Type Non Detect 0.00%	Type Non Detect 0.00%
Gray, Fibrous, Homogeneous	White, Fibrous, Homogeneous	White, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 16-1	L1209-38	RM-1

Layer 1
Fire Brick
Type Non Detect 0.00%
Tan, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 16-2	L1209-39	RM-1

Layer 1
Fire Brick
Type Non Detect 0.00%
Tan, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 17-1	L1209-40	RM-1

Layer 1
Ceramic Tile Floor Mortar
Type Non Detect 0.00%
Gray, Fibrous, Homogeneous
100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

The Mannik & Smith Group
Analytical Laboratories

L1209

Client	The Mannik & Smith Group, Inc.	Received	03/21/19	Project	13992 Alma, Detroit, MI
	2365 S. Haggerty Rd., Suite 100	Analyzed	03/25/19	Order #	L1209
	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 17-2	L1209-41	RM-1
Layer 1 Ceramic Tile Floor Mortar Type Non Detect 0.00% Gray, Fibrous, Homogeneous 100% non-asbestos		
AS 18-1	L1209-42	RM-4
Layer 1 Ceramic Tile Wall Mortar Type Non Detect 0.00% Gray, Fibrous, Homogeneous 100% non-asbestos		
AS 18-2	L1209-43	RM-4
Layer 1 Ceramic Tile Wall Mortar Type Non Detect 0.00% Gray, Fibrous, Homogeneous 100% non-asbestos		
AS 19-1	L1209-44	RM-4
Layer 1 Brown Glue Type Non Detect 0.00% Brown, Fibrous, Homogeneous 100% non-asbestos		
AS 19-2	L1209-45	RM-7
Layer 1 Brown Glue Type Non Detect 0.00% Brown, Fibrous, Homogeneous 100% non-asbestos		

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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The Mannik & Smith Group
Analytical Laboratories

L1209

Client	The Mannik & Smith Group, Inc.	Received	03/21/19	Project	13992 Alma, Detroit, MI
	2365 S. Haggerty Rd., Suite 100	Analyzed	03/25/19	Order #	L1209
	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 20-1	L1209-46	RM-5
Layer 1 Aircell Type **Chrysotile 60.00%** Gray, Fibrous, Homogeneous 40% non-asbestos		
AS 20-2	L1209-47	RM-5
Layer 1 Aircell Type Not Analyzed - Gray, Fibrous, Homogeneous		
AS 20-3	L1209-48	RM-5
Layer 1 Aircell Type Not Analyzed - Gray, Fibrous, Homogeneous		
AS 21-1	L1209-49	RM-7
Layer 1 Stone 12” Floor Tile Type Non Detect 0.00% Gray, Fibrous, Homogeneous 100% non-asbestos		
AS 21-2	L1209-50	RM-8
Layer 1 Stone 12” Floor Tile Type Non Detect 0.00% Gray, Fibrous, Homogeneous 100% non-asbestos		

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

The Mannik & Smith Group
Analytical Laboratories

L1209

Client	The Mannik & Smith Group, Inc.	Received	03/21/19	Project	13992 Alma, Detroit, MI
	2365 S. Haggerty Rd., Suite 100	Analyzed	03/25/19	Order #	L1209
	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 22-1	L1209-51	RM-7

Layer 1	Layer 2
Yellow 12" Floor Tile	Mastic
Type Non Detect 0.00%	Type Non Detect 0.00%
Yellow, Fibrous, Homogeneous	Tan, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 22-2	L1209-52	RM-8

Layer 1	Layer 2
Yellow 12" Floor Tile	Mastic
Type Non Detect 0.00%	Type Non Detect 0.00%
Yellow, Fibrous, Homogeneous	Tan, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 23-1	L1209-53	RM-7

Layer 1	Layer 2
Yellow Linoleum	Backing
Type Non Detect 0.00%	Type Non Detect 0.00%
Yellow, Fibrous, Homogeneous	Green, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 23-2	L1209-54	RM-8

Layer 1	Layer 2
Yellow Linoleum	Backing
Type Non Detect 0.00%	Type Non Detect 0.00%
Yellow, Fibrous, Homogeneous	Green, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 24-1	L1209-55	RM-7

Layer 1	Layer 2
Swirl Linoleum	Backing
Type Non Detect 0.00%	Type Non Detect 0.00%
Tan, Fibrous, Homogeneous	Black, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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The Mannik & Smith Group
Analytical Laboratories

L1209

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	2365 S. Haggerty Rd., Suite 100	Analyzed	03/25/19	Order #	L1209
	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 24-2	L1209-56	RM-8

Layer 1	Layer 2
Swirl Linoleum	Backing
Type Non Detect 0.00%	Type Non Detect 0.00%
Tan, Fibrous, Homogeneous	Black, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 25-1	L1209-57	RM-8

Layer 1
Stair Tread
Type Non Detect 0.00%
Brown, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 25-2	L1209-58	RM-8

Layer 1
Stair Tread
Type Non Detect 0.00%
Brown, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 26-1	L1209-59	RM-8

Layer 1	Layer 2
Brown Linoleum	Backing
Type Non Detect 0.00%	Type Non Detect 0.00%
Brown, Fibrous, Homogeneous	Black, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Client ID	Lab ID	Location
AS 26-2	L1209-60	RM-8

Layer 1	Layer 2
Brown Linoleum	Backing
Type Non Detect 0.00%	Type Non Detect 0.00%
Brown, Fibrous, Homogeneous	Black, Fibrous, Homogeneous
100% non-asbestos	100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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The Mannik & Smith Group
Analytical Laboratories

L1209

Client	The Mannik & Smith Group, Inc.	Received	03/21/19	Project	13992 Alma, Detroit, MI
	2365 S. Haggerty Rd., Suite 100	Analyzed	03/25/19	Order #	L1209
	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 27-1	L1209-61	RM-12

Layer 1

Black 12" Floor Tile

Type Non Detect 0.00%
Black, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 27-2	L1209-62	RM-12

Layer 1

Black 12" Floor Tile

Type Non Detect 0.00%
Black, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 28-1	L1209-63	RM-12

Layer 1

Mud Board

Type Non Detect 0.00%
Tan, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 28-2	L1209-64	RM-12

Layer 1

Mud Board

Type Non Detect 0.00%
Tan, Fibrous, Homogeneous
100% non-asbestos

Client ID	Lab ID	Location
AS 29-1	L1209-65	RM-12

Layer 1

Window Rope

Type Non Detect 0.00%
Tan, Fibrous, Homogeneous
100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

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The Mannik & Smith Group
Analytical Laboratories

L1209

Client	The Mannik & Smith Group, Inc.	Received	03/21/19	Project	13992 Alma, Detroit, MI
	2365 S. Haggerty Rd., Suite 100	Analyzed	03/25/19	Order #	L1209
	Canton, MI, 48188	Reported	03/25/19	Project #	DETR0039

BULK SAMPLE ANALYSIS SUMMARY

Client ID	Lab ID	Location
AS 29-2	L1209-66	RM-12

Layer 1

Window Rope

Type Non Detect 0.00%

Tan, Fibrous, Homogeneous

100% non-asbestos

Client ID	Lab ID	Location
AS 30-1	L1209-67	Basement

Layer 1

Foundation Concrete

Type Non Detect 0.00%

Gray, Fibrous, Homogeneous

100% non-asbestos

Client ID	Lab ID	Location
AS 30-2	L1209-68	Basement

Layer 1

Foundation Concrete

Type Non Detect 0.00%

Gray, Fibrous, Homogeneous

100% non-asbestos

Client ID	Lab ID	Location
AS 31-1	L1209-69	Basement

Layer 1

Stack Cement

Type Non Detect 0.00%

Gray, Fibrous, Homogeneous

100% non-asbestos

Client ID	Lab ID	Location
AS 31-2	L1209-70	Basement

Layer 1

Stack Cement

Type Non Detect 0.00%

Gray, Fibrous, Homogeneous

100% non-asbestos

Analytical Method:	US EPA 600/R-93/116 by Polarized Light Microscopy		Accreditations
Analyst:	Joshua P Lucchesi	Quality Manager	NIST-NVLAP
Reviewer:	Christopher A Claes	Laboratory Director	No. 600212-0

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600212-0

Mannik & Smith Group Analytical Laboratories

Canton, MI

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-06-21 through 2019-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Mannik & Smith Group Analytical Laboratories
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Canton, MI 48188
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ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 600212-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

The Mannik & Smith Group
Analytical Laboratories

Chain of Custody

Order Number: L1209

Client	The Mannik & Smith Group, Inc.			City, State	Canton, MI	Zip Code	48188	*Bulk Samples Only*
Address	2365 S. Haggerty Rd., Suite 100			Contact	Ryan Montri	Phone	(734) 397-3100	☑ TTP ☐ Point Count
Project	13992 Alma, Detroit, MI	Project #	DETR0039	Email	rmontri@manniksmithgroup.com	Fax	(734) 397-3131	Date Sampled:
Turn Around	☐ 4 Hour ☐ 24 Hour ☐ 48 Hour ☑ 72 Hour ☐ 1 Week					Report to	☑ Email ☐ Fax	3/20/2019

Lab ID	Customer ID	Material Type	Material Location	Notes
L1209 -1	AS 1-1	Gray Brick Mortar	Exterior	
L1209 -2	AS 1-2	Gray Brick Mortar	Exterior	
L1209 -3	AS 2-1	Red Brick Mortar	Exterior	
L1209 -4	AS 2-2	Red Brick Mortar	Exterior	
L1209 -5	AS 3-1	Porch Concrete	Exterior	
L1209 -6	AS 3-2	Porch Concrete	Exterior	
L1209 -7	AS 4-1	Exterior Caulk	Exterior	
L1209 -8	AS 4-2	Exterior Caulk	Exterior	
L1209 -9	AS 5-1	House Window Glaze	Exterior	
L1209 -10	AS 5-2	House Window Glaze	Exterior	
L1209 -11	AS 6-1	Expansion Joint	Exterior	
L1209 -12	AS 6-2	Expansion Joint	Exterior	
L1209 -13	AS 7-1	Red Roof Shingle	Roof	
L1209 -14	AS 7-2	Red Roof Shingle	Roof	
L1209 -15	AS 8-1	Green Roof Shingle	Roof	

Relinquished by DTE MSG
Date and Time 3/21/2019

Received by MPM
Date and Time 3/21/19

Comments

The Mannik & Smith Group
Analytical Laboratories

Chain of Custody

Order Number: L1209

Lab ID	Customer ID	Material Type	Material Location	Notes
L1209 -16	AS 8-2	Green Roof Shingle	Roof	
L1209 -17	AS 9-1	Roof Tar	Roof	
L1209 -18	AS 9-2	Roof Tar	Roof	
L1209 -19	AS 10-1	Red Octagonal Asphalt Siding	Exterior	
L1209 -20	AS 10-2	Red Octagonal Asphalt Siding	Exterior	
L1209 -21	AS 11-1	Black Siding Underlayment	Exterior	
L1209 -22	AS 11-2	Black Siding Underlayment	Exterior	
L1209 -23	AS 12-1	Red Square Asphalt Siding	Exterior	
L1209 -24	AS 12-2	Red Square Asphalt Siding	Exterior	
L1209 -25	AS 13-1	Plaster	RM-1	
L1209 -26	AS 13-2	Plaster	RM-2	
L1209 -27	AS 13-3	Plaster	RM-3	
L1209 -28	AS 13-4	Plaster	RM-7	
L1209 -29	AS 13-5	Plaster	RM-12	
L1209 -30	AS 13-6	Plaster	RM-14	
L1209 -31	AS 13-7	Plaster	RM-15	
L1209 -32	AS 14-1	Drywall with Joint Compound	RM-4	
L1209 -33	AS 14-2	Drywall with Joint Compound	RM-9	
L1209 -34	AS 14-3	Drywall with Joint Compound	RM-9	
L1209 -35	AS 15-1	Plaster on Backerboard	RM-2	
L1209 -36	AS 15-2	Plaster on Backerboard	RM-2	
L1209 -37	AS 15-3	Plaster on Backerboard	RM-4	
L1209 -38	AS 16-1	Fire Brick	RM-1	
L1209 -39	AS 16-2	Fire Brick	RM-1	
L1209 -40	AS 17-1	Ceramic Tile Floor Mortar	RM-1	

The Mannik & Smith Group
Analytical Laboratories

Chain of Custody

Order Number: L1209

Lab ID	Customer ID	Material Type	Material Location	Notes
L1209 -41	AS 17-2	Ceramic Tile Floor Mortar	RM-1	
L1209 -42	AS 18-1	Ceramic Tile Wall Mortar	RM-4	
L1209 -43	AS 18-2	Ceramic Tile Wall Mortar	RM-4	
L1209 -44	AS 19-1	Brown Glue	RM-4	
L1209 -45	AS 19-2	Brown Glue	RM-7	
L1209 -46	AS 20-1	Aircell	RM-5	
L1209 -47	AS 20-2	Aircell	RM-5	
L1209 -48	AS 20-3	Aircell	RM-5	
L1209 -49	AS 21-1	Stone 12" Floor Tile	RM-7	
L1209 -50	AS 21-2	Stone 12" Floor Tile	RM-8	
L1209 -51	AS 22-1	Yellow 12" Floor Tile	RM-7	
L1209 -52	AS 22-2	Yellow 12" Floor Tile	RM-8	
L1209 -53	AS 23-1	Yellow Linoleum	RM-7	
L1209 -54	AS 23-2	Yellow Linoleum	RM-8	
L1209 -55	AS 24-1	Swirl Linoleum	RM-7	
L1209 -56	AS 24-2	Swirl Linoleum	RM-8	
L1209 -57	AS 25-1	Stair Tread	RM-8	
L1209 -58	AS 25-2	Stair Tread	RM-8	
L1209 -59	AS 26-1	Brown Linoleum	RM-8	
L1209 -60	AS 26-2	Brown Linoleum	RM-8	
L1209 -61	AS 27-1	Black 12" Floor Tile	RM-12	
L1209 -62	AS 27-2	Black 12" Floor Tile	RM-12	
L1209 -63	AS 28-1	Mud Board	RM-12	
L1209 -64	AS 28-2	Mud Board	RM-12	
L1209 -65	AS 29-1	Window Rope	RM-12	

The Mannik & Smith Group
Analytical Laboratories

Chain of Custody

Order Number: L1209

Lab ID	Customer ID	Material Type	Material Location	Notes
L1209 -66	AS 29-2	Window Rope	RM-12	
L1209 -67	AS 30-1	Foundation Concrete	Basement	
L1209 -68	AS 30-2	Foundation Concrete	Basement	
L1209 -69	AS 31-1	Stack Cement	Basement	
L1209 -70	AS 31-2	Stack Cement	Basement	

2365 S. Haggerty Road, Suite 100, Canton, MI 48188 Phone: (734) 397-3100 Fax: (734) 397-3131 Email: cclaes@manniksmithgroup.com

INDEX

The following sections are contained within this Hazardous / Regulated Materials Survey Report. Should any of these sections be missing from the printed report, and page numbers not be in sequential order, it shall be considered an incomplete, uncontrolled copy.

Mannik Smith GROUP