

HAZARDOUS MATERIALS SURVEY REPORT

FORMER MARSHALL ELEMENTARY SCHOOL LIVONIA, MICHIGAN

Livonia Public Schools
15125 Farmington Road
Livonia, Michigan 48154

December 16, 2025
NTH Project No. 25002747-01



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Mr. Harry Lau
Livonia Public Schools
15125 Farmington Road
Livonia, Michigan 48154

December 16, 2025
NTH Project No. 25002747-01

**RE: Report on Hazardous Materials Survey
Former Marshall Elementary School
33901 Curtis Road
Livonia, Michigan**

Dear Mr. Lau:

NTH Consultants, Ltd. (NTH) is pleased to submit this report on a Hazardous Materials Survey for the above referenced school. This study was performed in accordance with the scope of services outlined in our accepted project proposal (NTH Proposal No. OP25002747) dated August 1, 2025.

We are pleased to be of service to you. Should you have any questions or require additional assistance, please call us at (248) 662-2740.

Sincerely,

NTH Consultants, Ltd.

Signed by:

Zach B. Moriarty

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Zach B. Moriarty
Assistant Project Professional

ZBM/BCM/mlk

Attachments

DocuSigned by:

Bhushan C. Modi

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Bhushan C. Modi
Project Manager



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1.0 INTRODUCTION

NTH Consultants, Ltd. (NTH) was retained by Livonia Public Schools (LPS) to conduct a Hazardous Materials Survey (HMS) of the former Marshall Elementary School located at 33901 Curtis Road in Livonia, Michigan. The single-story school building is approximately 44,000 square feet in size and was constructed circa 1960 with additions in 1962 and 1992. A building plan showing the additions is included in Appendix A.

The school building is scheduled for demolition. Thus, the purpose of the HMS was to identify and evaluate, to the extent possible, asbestos-containing materials (ACM), lead and cadmium-containing paints (LCP and CCP), polychlorinated biphenyl (PCB)-containing equipment, mercury-containing equipment, and potentially hazardous materials including chemical containers.

2.0 SCOPE OF SERVICES

ACM

- Conducted a walk-through survey of the accessible portions of the building to identify and quantify suspect ACM.
- Collected and analyzed bulk samples from suspect ACM in representative areas as determined by the accredited asbestos inspectors.

LCP and CCP

- Conducted a walk-through of the accessible portions of the building to document and test various painted building components for the presence of lead and cadmium. Paint chip samples were collected for lead and cadmium analyses.

PCBs and Mercury

- Conducted a walk-through of the accessible portions of the building to identify and quantify electrical equipment (i.e., fluorescent light ballasts) suspected of containing PCB dielectric fluid. In addition, fluorescent light tubes, mercury vapor lights, thermometers, mercury switches, and other materials suspected of containing mercury were inventoried to the extent possible.
- Collected samples of window caulk and other sealants for PCB analysis.

Potentially Hazardous Materials

- Conducted a walk-through of the accessible portions of the building to document potentially hazardous materials including chemical containers that would require special handling for disposal purposes.

3.0 FIELD INVESTIGATION AND FINDINGS

The following sections present the results of the HMS, including a list of homogeneous areas identified as containing asbestos and an approximate quantity of ACM comprising each homogeneous area, a list of painted surfaces identified as LBP and CBP, list of PCB-containing building materials, potentially hazardous



materials, and stored chemicals. Construction, mechanical, plumbing and renovation drawings were provided by LPS and reviewed as part of the survey.

The HMS was conducted between November 6 and 11, 2025 by Laura Willem of Willem Environmental Consulting, LLC (WEC), and Harper Purvin of NTH Consultants Ltd. Ms. Willem is a State of Michigan-Accredited Asbestos Building Inspector (Accreditation No. A25682).

The Building Location Plan and Sample Location Plans showing approximate locations of asbestos, paint chip and PCB samples are included in Appendix A. Photographs of suspected ACM, LCP and CCP are included in Appendices E and F.

The following limiting conditions were encountered during the study:

- Although this survey included limited destructive testing (i.e., opening walls and ceilings) to identify hidden materials, it was beyond the scope of work and not practically feasible to demolish every pipe chase, ceiling, floor, or wall to locate suspect ACM and other hazardous materials.
- The scope of services for this survey did not include coring through the floors for investigative purposes. The building drawings indicate that insulated pipes are located under the concrete floors and it is unknown at this time if there is a waterproofing layer under the concrete floor.
- The LPS project team was under the impression there was a tunnel present at this school location; however, the NTH team could not identify any evidence of the tunnel or locate any access to the reported tunnel.
- Switchgear units were not accessed as electricity was still live/present in the building. Suspect ACM may be present in the switchgear. Likewise, vibration gaskets associated with air-handling units and duct work were not sampled as part of this survey because the units were still in operation. Fire doors were not sampled due to the destructive nature of bulk sampling but are typically assumed as ACM and are removed intact during abatement/demolition.

Note: The quantities of ACM and other hazardous materials presented in this report are estimates and should not be relied upon by abatement or demolition contractors for bidding purposes. Although efforts were made to observe representative wall and ceiling cavities, such materials may be present in the areas that were not accessed. If suspect ACM is discovered during abatement or demolition activities, then such material shall be assumed to be asbestos containing until sampling and analysis proves otherwise.

3.1 ASBESTOS-CONTAINING MATERIALS

United States Environmental Protection Agency (USEPA) – Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP 40 CFR Part 61, Subpart M) regulations require a thorough inspection of a structure where the demolition or renovation operation will occur. An ACM is any building material that contains more than 1% asbestos. There are three main types of ACM:

- **Thermal System Insulation:** ACM applied to pipes, fittings, boilers, tanks, ducts, or other HVAC components to prevent heat loss or gain.



- **Surfacing Material:** ACM that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster and fireproofing materials on structural members, or other materials on surfaces for acoustical, decorative, fireproofing, or other purposes.
- **Miscellaneous Materials:** All other ACM, including but not limited to, acoustical ceiling tile, resilient floor tile and coverings, concrete pipes, siding, and roofing materials.

The ACM are further classified as either friable or non-friable materials. Friable materials are those that can be crumbled, pulverized, or reduced to powder by hand pressure, when dry. Non-friable materials can be further classified as Category I or Category II materials. Category I materials include packings, gaskets, resilient floor coverings, and asphalt roofing products. Category II materials include all other non-friable materials.

The purpose of the asbestos evaluation was to identify, sample, and quantify suspect ACM, and to categorize the suspect ACM into individual homogeneous areas. A homogeneous area (HA) is defined as a material that appears similar in terms of color, texture, composition, and/or date of application.

Ninety-five (95) homogeneous areas of suspect ACM were identified in the building and on its exterior. Two hundred and six (206) bulk samples were collected from these materials for asbestos analysis. Due to the physical characteristics of multi-layered materials, such as roofing materials, floor tile/mastic, plaster and mortar, cove base and adhesive and drywall and joint compound, the analytical results of such multi-layered suspect ACM were reported for each layer, where applicable, and are regarded as separate materials. Thus, a total of 271 samples/layers were analyzed for asbestos by APEX Research Inc. (APEX), using Polarized Light Microscopy (PLM) method. APEX is accredited by the National Institute of Standards and Technology (NIST) and the National Voluntary Laboratory Accreditation Program (NVLAP) for analysis of asbestos using PLM method.

If PLM result identifies less than 10% asbestos in a sample, then USEPA suggests further refining that result by point counting method. If the point counting data is different from the PLM data, then the point count result must be used. The laboratory data on asbestos analysis using PLM and point counting methods are shown on the table below and included in Appendix B.

The following table presents material descriptions, friability of the materials (friable = F, Category I non-friable = NF-I, and Category II non-friable = NF-II), sample locations, category of the sampled materials (surfacing = S, miscellaneous = M or thermal system insulation = TSI), and results of PLM analysis.

HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
1	2'x4' Ceiling Tile with dugouts and pinholes	1A	South Corridor, near Room 10	F	M	None Detected
		1B	Room 12, SW Corner			None Detected
2	Transite Panel	2A	Room 9, at office	NF-II	M	10% Chrysotile
		2B	Room 11, at office			Not Analyzed



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
3	Floor Mastic	3A	Room 9, west wall under carpet	NF-I	M	None Detected
		3B	Room 10, west wall under carpet			None Detected
4	Gray Floor Leveler Under Pergo	4A	Room 10, south wall at drinking fountain	NF-II	M	None Detected
		4B	Room 11, middle			None Detected
		4C	Room 18, middle			None Detected
5	Mirror or bulletin board glue pod	5A	Room 9, North wall near boys' bathroom	NF-II	M	None Detected
		5B	Room 12, west wall at sink area			None Detected
6	Fiberglass insulation	6A	Room 10, South side at sink area	F	TSI	None Detected
		6B	South corridor chase, south end			None Detected
		6C	Storage room across from Office 30			None Detected
7	Fittings associated with HA 6	7A	Custodial closet between 9 and 10	F	TSI	None Detected
		7B	Room 12, near bathrooms			None Detected
		7C	Storage room across from Office 30			None Detected
8	Interior window glaze	8A	Room 9, west side	NF-II	M	None Detected
		8B	Room 7, east side			None Detected
		8C	Room 16, east side			None Detected
9	Thin white window glaze	9A	Room 10, west side	NF-II	M	None Detected
		9B	Room 6, east side			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
10	Caulking around transite and interior windows	10A	Office between 9 and 10	NF-II	M	None Detected
		10B	Office between 9 and 10			None Detected
11	Glazing at base of windows	11A	Room 9, west side	NF-II	M	None Detected
		11B	Room 11, west side			None Detected
12	9"x9" brown floor tile	12A	South corridor near ext. doors	NF-I	M	Tile: 10% Chrysotile Mastic: None Detected
		12B	N-S corridor across from Work Room			Tile: Not Analyzed Mastic: None Detected
13	White Floor Leveler	13A	South corridor near ext. doors	NF-II	M	None Detected
		13B	South corridor at threshold to Room 12			None Detected
		13C	Middle corridor at connector to 1962			None Detected
14	Roof drain pipe insulation (with black and foil wrap)	14A	Room 10, NE	F	TSI	None Detected
		14B	Room 7, NW			None Detected
		14C	Room 7, NW			None Detected
15	Roof drain pipe insulation	15A	Room 10, NE	F	TSI	None Detected
		15B	Room 7, NW			None Detected
		15C	Room 7, NW			None Detected
16	Black cove base and adhesive	16A	Room 9	NF-II	M	None Detected
		16B	Room 12			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
17	Window caulk around interior windows – hallway side	17A	Hallway at Room 9, south end	NF-II	M	1.25% Chrysotile (Point Count Result)
		17B	N-S corridor at kitchen, north end			Not Analyzed
18	12"x12" white floor tile with rainbow markings	18A	Room 10, south wall at sink area	NF-I	M	Tile: None Detected Mastic: None Detected
		18B	Room 10, south wall at sink area			Tile: None Detected Mastic: None Detected
19	Plaster	19A	Boys' bathroom between Rooms 9 and 10	NF-II	S	Finish Coat: None Detected Base Coat: None Detected
		19B	Boys' bathroom between Room 7 and 8			Finish Coat: None Detected Base Coat: None Detected
		19C	Boys' bathroom between Room 7 and 8			Finish Coat: None Detected Base Coat: None Detected
		19D	Room 3, lower ceiling at entrance			Finish Coat: None Detected Base Coat: None Detected
		19E	Room 4, lower ceiling – north side			Finish Coat: None Detected Base Coat: None Detected
		19F	Lobby			Finish Coat: None Detected Base Coat: None Detected
		19G	Lobby, boys' bathroom			Finish Coat: None Detected Base Coat: None Detected
20	Fiberglass insulation with black and foil wrap	20A	Room 10, south wall at sink area	F	TSI	None Detected
		20B	Room 12, west wall at sink area			None Detected
		20C	Custodial closet at south end of N-S Hallway			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
21	Drywall	21A	Room 12, upper northeast wall	NF-II	M	None Detected
		21B	Room 12, upper northeast wall			None Detected
22	Beige mottle floor tile	22A	At threshold to Room 12	NF-I	M	Tile: None Detected Mastic: None Detected
		22B	At threshold to Room 12			Tile: None Detected Mastic: None Detected
		22C	Room 19, middle (under HA 19)			Tile: None Detected Mastic: None Detected
23	White sink caulking	23A	Room 12, west wall	NF-II	M	None Detected
		23B	Room 9, north side			None Detected
24	9"x9" gray floor tile	24A	Room 8, east wall	NF-I	M	Glue: None Detected Tile: 10% Chrysotile Mastic: None Detected
		24B	Room 7, west side			Glue: None Detected Tile: Not Analyzed Mastic: None Detected
25	Window glazing, hard (under HA 8)	25A	Room 7, east side	NF-II	M	1.5% Chrysotile (Point Count Result)
		25B	Room 7, east side			Not Analyzed
26	12"x12" blue mottle floor tile	26A	Custodial closet at south end of N-S corridor	NF-I	M	Tile: None Detected Mastic: None Detected
		26B	Custodial closet at south end of N-S corridor			Tile: None Detected Mastic: None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
27	Packing at base of sanitary drain	27A	Custodial closet in south corridor	NF-II	S	None Detected
		27B	Custodial closet in south corridor			None Detected
28	12"x12" white floor tile with pastel markings	28A	Storage room across from Office 29	NF-II	M	Tile: None Detected Glue: None Detected
		28B	Kitchen at east door			Tile: None Detected Glue: None Detected
29	Paper under HA 28 and over HA 12	29A	Storage room across from Office 29	NF-II	M	None Detected
		29B	Storage room across from Office 29			None Detected
30	White filler under HA 28	30A	Kitchen at east door	NF-II	M	Mastic: None Detected Filler: None Detected Mastic: None Detected
		30B	Kitchen at east door			Mastic: None Detected Filler: None Detected Mastic: None Detected
31	Tan chalkboard caulk	31A	Room 5, north wall	NF-II	M	None Detected
		31B	Room 25, north wall			None Detected
32	9"x9" tan floor tile	32A	Gym, north side, middle	NF-I	M	Tile: 1.5% (Point Count Result) Mastic: None Detected
		32B	Gym, SW at drinking fountain			Tile: Not Analyzed Mastic: None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
33	9"x9" light gray floor tile	33A	Gym, NE at shuffleboard	NF-I	M	Tile: 2.75% (Point Count Result) Mastic: None Detected
		33B	Gym, SW at shuffleboard			Tile: Not Analyzed Mastic: None Detected
34	Red shuffleboard tile	34A	Gym, NE at shuffleboard	NF-I	M	Tile: 3.5% (Point Count Result) Mastic: None Detected
		34B	Gym, SW at shuffleboard			Tile: Not Analyzed Mastic: None Detected
35	White shuffleboard trim tile	35A	Gym, NE at shuffleboard	NF-I	M	Tile: 10% Chrysotile Mastic: None Detected
		35B	Gym, SW at shuffleboard			Tile: Not Analyzed Mastic: None Detected
36	Blue speckled replacement tile	36A	Gym, Middle	NF-I	M	Tile: None Detected Mastic: None Detected
		36B	Gym, Middle			Tile: None Detected Mastic: None Detected
37	Black Floor Tile	37A	Gym, north side, middle	NF-I	M	Tile: None Detected Mastic: None Detected
		37B	Gym, SW at drinking fountain			Tile: None Detected Mastic: None Detected
38	Red replacement tile	38A	Gym, Middle	NF-I	M	Tile: None Detected Mastic: None Detected
		38B	Gym, Middle			Tile: None Detected Mastic: None Detected

HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
39	Black trim floor tile	39A	Gym, Middle	NF-I	M	Tile: 3.0% (Point Count Result) Mastic: None Detected
		39B	Gym, NE at shuffleboard			Tile: Not Analyzed Mastic: None Detected
40	New fiberglass pipe insulation	40A	Fan Room	F	TSI	None Detected
		40B	Boiler Room, SW			None Detected
		40C	Boiler Room, SE			None Detected
41	White canvas vibration dampener	Not sampled		F	M	Assumed ACM
42	Incinerator-chimney door gasket	42A	Boiler Room, SW, lower door	F	M	50% Chrysotile
		42B	Boiler Room, SW, lower door			Not Analyzed
43	Yellow interior chimney tile	43A	Boiler Room, SW	NF-II	M	None Detected
		43B	Boiler Room, SW			None Detected
44	Chimney masonry block	44A	Boiler Room, SW	NF-II	M	None Detected
		44B	Boiler Room, SW			None Detected
45	Chimney brick	45A	Boiler Room, SW	NF-II	M	None Detected
		45B	Boiler Room, SW			None Detected
46	Wall sealant, between brick & block	46A	Middle hallway, east end of 1960 wing	NF-II	M	None Detected
		46B	Middle hallway, east end of 1960 wing			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
47	Door caulk	47A	Room 2, east exterior door	NF-II	M	1.5% Chrysotile (Point Count Result)
		47B	Room 1, east exterior door			Not Analyzed
48	Dark brown glue pods for canvas boards	48A	Room 4, east wall	NF-II	M	None Detected
		48B	Room 4, east wall			None Detected
49	White sink undercoating	49A	Room 2, north side	NF-II	M	1.5% Chrysotile (Point Count Result)
		49B	Room 2, north side			Not Analyzed
50	Circular light heat shield	50A	Room 4, boys' bathroom	F	M	60% Chrysotile
		50B	Room 4, boys' bathroom			Not Analyzed
51	Black sink undercoating	51A	Kitchen	NF-II	M	None Detected
		51B	Kitchen			None Detected
52	2'x2' gypsum ceiling tile	52A	Kitchen	NF-II	M	None Detected
		52B	Kitchen			None Detected
53	Gray duct sealant	53A	Kitchen, middle	NF-II	M	None Detected
		53B	Library, west end			None Detected
54	Black vibration gasket on duct work	Not sampled		NF-II	M	Assumed ACM
55	Light pink sink undercoating	55A	Office Clinic	NF-II	M	1.75% Chrysotile (Point Count Result)
		55B	Office Clinic			Not Analyzed
56	Brown pebble pattern countertop	56A	Office Clinic	NF-II	M	Countertop: None Detected Glue: None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
		56B	Office Clinic			Countertop: None Detected Glue: None Detected
57	Exposed pipe insulation	57A	Receiving Room at heater	F	TSI	None Detected
		57B	Room 1 Closet, purple line			None Detected
		57C	Room 1 Closet, green line			None Detected
58	Exposed pipe fitting	58A	Receiving Room at heater	F	TSI	None Detected
		58B	Room 1 Closet, green line			None Detected
		58C	Room 1 Closet, purple line			None Detected
59	Lightweight concrete between upper block wall & metal ceiling	59A	Receiving Room, West side	NF-II	M	None Detected
		59B	Receiving Room, West side			None Detected
60	Door caulk	60A	Room 1, above east door	NF-II	M	2.75% Chrysotile (Point Count Result)
		60B	Room 2, above east door			Not Analyzed
61	9"x9" tan floor tile with brown markings	61A	Corridor between 1960 and 1962 wings	NF-I	M	Tile: 10% Chrysotile Mastic: None Detected
		61B	Room 20, east side			Tile: Not Analyzed Mastic: None Detected
62	Mastic under pergo floor	62A	Room 20, middle	NF-I	M	None Detected
		62B	Room 13, middle			None Detected
63	Window glazing, thin	63A	Room 20, west side	NF-II	M	None Detected
		63B	Room 14, north side			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
64	Window caulking, interior	64A	Room 20, west side	NF-II	M	1.75% Chrysotile (Point Count Result)
		64B	Room 16, east side			Not Analyzed
65	Plaster	65A	Room 20, boys' bathroom	NF-II	S	Finish Coat: None Detected Base Coat: None Detected
		65B	Room 16, boys' bathroom			Finish Coat: None Detected Base Coat: None Detected
		65C	Custodial closet			Finish Coat: None Detected Base Coat: None Detected
		65D	Custodial closet			Finish Coat: None Detected Base Coat: None Detected
		65E	Room 13, girls' bathroom			Finish Coat: None Detected Base Coat: None Detected
66	9"x9" gray floor tile with black markings	66A	Room 18, NE corner	NF-I	M	Tile: 10% Chrysotile Mastic: None Detected
		66B	Room 14, east side			Tile: Not Analyzed Mastic: None Detected
67	Masonry block	67A	Room 19, closet	NF-II	M	None Detected
		67B	South Hallway, chase at south door			None Detected
68	Block mortar	68A	Room 19 closet	NF-II	M	None Detected
		68B	South Hallway, chase at south door			None Detected
69	Pergo floor	69A	Room 15, middle	NF-I	M	None Detected
		69B	Room 16, south side			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
70	Fiberglass pipe insulation with black and foil wrap	70A	Corridor between 1960 & 1962 wings	F	TSI	None Detected
		70B	Room 13			None Detected
		70C	Room 16, NE			None Detected
71	Fittings associated with HA 70	71A	Room 13	F	TSI	None Detected
		71B	Room 15, NE			None Detected
		71C	Room 15, NE			None Detected
72	Fiberglass pipe insulation	72A	Corridor outside of Room 20	F	TSI	None Detected
		72B	Room 20, SW			None Detected
		72C	Room 20, SE			None Detected
73	Fittings associated with HA 72	73A	Room 20, north of baths	F	TSI	None Detected
		73B	Room 20, SE			None Detected
		73C	Room 18, SE			None Detected
74	Coating of roof vent	74A	1962, corridor, middle	F	M	10% Chrysotile
		74B	1962, corridor, middle			Not Analyzed
75	2'x2' ceiling tile, textured	75A	Room 25, west side	F	M	None Detected
		75B	Library, west side			None Detected
76	Brown glue pods under soundproofing panels	76A	Library, south side	NF-II	M	None Detected
		76B	Library, south side			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
77	Drywall	77A	Library, south side	NF-II	M	None Detected
		77B	Library, east side			None Detected
78	Joint Compound	78A	Library, south side	NF-II	M	None Detected
		78B	Library, east side			None Detected
79	Light gray floor leveler	79A	Library, east side	NF-II	M	None Detected
		79B	Library, east side			None Detected
80	Gymnasium window glazing	80A	Gym, north side	NF-II	M	None Detected
		80B	Gym, north side			None Detected
81	Drywall and paper	81A	Rooftop Mechanical Room, east side	NF-II	M	Drywall & Paper: None Detected Tape: None Detected Mud: None Detected
		81B	Rooftop Mechanical Room, east side			Drywall & Paper: None Detected Tape: None Detected Mud: None Detected
82	White sealant around gym windows	82A	Roof, south side of gym	NF-II	M	None Detected
		82B	Roof, south side of gym			None Detected
83	Roofing materials	83A	1960 wing, NW	NF-I	M	Roofing Materials: None Detected Foam: None Detected Cloth: None Detected Tar: None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
		83B	1962 wing, west side			Roofing Materials: None Detected Foam: None Detected Cloth: None Detected Tar: None Detected
84	Sealant between membrane and upper gym wall	84A	Roof, west side of gym	NF-II	M	None Detected
		84B	Roof, west side of gym			None Detected
85	Gray expansion joint	85A	Near main entrance	NF-II	M	None Detected
		85B	North side of Room 11			None Detected
86	Gray exterior window caulking	86A	North side, west of entrance	NF-II	M	None Detected
		86B	Exterior of Room 12			None Detected
87	Door and window caulk at connectors	87A	West side of 1960 connector	NF-II	M	None Detected
		87B	West side of 1960 connector			None Detected
88	White door caulk	88A	Exterior of Room 7	NF-II	M	None Detected
		88B	Exterior of Room 7			None Detected
89	White exterior window caulk (1992)	89A	Library, south	NF-II	M	None Detected
		89B	Library, east			None Detected
90	Light gray exterior expansion joint	90A	Library, south	NF-II	M	None Detected
		90B	Library, south			None Detected
91	Gray exterior window caulk	91A	Room 20	NF-II	M	None Detected
		91B	Room 20			None Detected



HA No.	Material Description	Sample No.	Sample Location	F/NF	Category	Asbestos Content
92	Black exterior mastic	92A	Exterior of Room 19, south side	NF-II	M	None Detected
		92B	Exterior of Room 19, south side			None Detected
93	Gray Caulk with old below	93A	N-S corridor at windows across from Work Room	NF-II	M	None Detected
		93B	N-S corridor at windows across from Work Room			None Detected
94	Fire doors	Not sampled		NF-II	M	Assumed
95	Switchgear components	Not sampled		NF-II	M	Assumed

Asbestos Quantities and Locations

The table below presents a description of ACM along with the location and quantity.

HA No.	Material Description	Location	Material Condition	Quantity
2	Transite Panel	Exterior: under windows, underhangs and upper siding Interior: Above doors to Rooms 3 and 4, Office between Rooms 9 and 10, Office between Rooms 11 and 12, Room 6 – northwest, Office between Rooms 13 and 14, Office between Rooms 17 and 18 and Office between Rooms 19 and 20	Good	Approximately 2,200 square feet
12	9"x9" brown floor tile	1960 Build: Throughout corridors; Offices located south of Room 12; and kitchen/office southeast of Gymnasium Most of the material is located under carpeting	Good	Approximately 5,000 square feet
17	Window caulk around interior windows – hallway side	1960 Building: Around frames of hallway windows	Good	Approximately 20 square feet
24	9"x9" gray floor tile	1960 Build: Room 5; Room 7; Room 8; and classroom closets in 1960 build	Fair	Approximately 600 square feet



HA No.	Material Description	Location	Material Condition	Quantity
66	9"x9" gray floor tile with black markings	1962 Build: Room 13; Room 14; Room 18; and Custodial Closet		
25	Window glazing, hard (under HA 8)	Interior throughout 1960 and 1962 builds	Good	Approximately 60 square feet
32	9"x9" tan floor tile	Gymnasium	Good	Approximately 2,500 square feet
33	9"x9" light gray floor tile			
34	Red shuffleboard tile			
35	White shuffleboard trim tile			
39	Black trim floor tile			
41	White canvas vibration dampener	1960 Build: Fan Room	Good	Approximately 6 square feet
42	Incinerator-chimney door gasket	Boiler Room, SW - lower door	Good	Approximately 2 square feet
47	Door caulk	1960 Build: Interior and exterior of west doors of Rooms 1 and 2	Good	Approximately 2.5 square feet
49	White sink undercoating	Classrooms 1-4	Good	4 sinks, approximately 20 square feet
50	Circular light heat shield	Room 4, boys' bathroom, and Office Clinic bathroom	Good	2 shields, approximately 2 square feet
54	Black vibration gasket on duct wall	Throughout building	Good	Not quantifiable
55	Light pink sink undercoating	Office Clinic	Good	1 sink, approximately 5 square feet
60	Door caulk at lower plaster ceiling	Rooms 3 and 4 at entrance to Classrooms	Good	Approximately 1 square feet
61	9"x9" tan floor tile with brown markings	Corridor between 1960 and 1962 wings; Corridor in 1962 build; Room 16, Room 15; and classroom closets in 1962 build Material was mostly found under carpeting	Good	Approximately 2,500 square feet



HA No.	Material Description	Location	Material Condition	Quantity
64	Window caulking, interior	1962 Building: Windows throughout	Good	Approximately 15 square feet
74	Coating of roof vent	Above ceiling tile level – Offices north of Room 8 and Corridor between Rooms 16 and 20	Good	Two vents - Approximately 40 square feet
94	Fire doors	Throughout building	Good	36 doors
95	Switchgear components	Electrical Room	Good	Not quantifiable

It should be noted that the asbestos quantities listed in the above table are approximate and should not be relied upon by contractors for bidding purposes.

3.2 LEAD AND CADMIUM-CONTAINING PAINT

A visual survey of the building was performed to document and test various types and colors of paint applied to building components for lead and cadmium. Twelve (12) paint chip samples were collected and submitted to APEX for lead and cadmium analyses using Atomic Absorption Spectroscopy (AAS) method. Laboratory data on paint chip analysis is included in Appendix C.

The results of paint chip analysis were compared with Michigan Occupational Safety and Health Administration (MIOSHA) standards, which states that LCP and CCP is a paint with detectable levels of lead and cadmium at or above the laboratory method detection limit (MDL).

The following table presents descriptions of the painted surfaces and analytical results:

Sample No.	Paint Color & Description	Location	Results (%)	
			Cadmium	Lead
PC-1	Off-White Metal Pipe	1960 Custodial Closet	<0.01	0.48
PC-2	White with Off-White below	Room 9, North Wall	<0.01	0.02
PC-3	Black Structural Metal	Office 30	<0.02	<0.02
PC-4	White with Red below Metal Door Frame	Room 9	<0.01	<0.01
PC-5	Light Blue with Off-White and Black below Metal Door Frame	1960 South Hallway, South Door	<0.01	<0.01
PC-6	White Plaster Ceiling	Lobby, West Side	<0.01	<0.01
PC-7	Gray Concrete Floor	Boiler Room, South End Landing	<0.01	0.04
PC-8	Red Structural Metal Primer	Room 16, East Side	<0.03	<0.03



Sample No.	Paint Color & Description	Location	Results (%)	
			Cadmium	Lead
PC-9	White with Off-White below Block Wall	Room 15, South Side	0.01	<0.01
PC-10	White Metal Pole	Library	<0.02	0.47
PC-11	White Metal Beam on Gym Roof	Roof, South Side of Gym	<0.01	4.79
PC-12	White Metal Exterior Door	West Side, North End	<0.01	0.77

As indicated in the above table, cadmium was detected in one sample and lead was detected in six samples. The painted surfaces were observed to be in fair to good condition. Other painted surfaces encountered during demolition and not evaluated in this report should be assumed to contain lead and cadmium unless sampling and analysis proves otherwise.

3.3 POLYCHLORINATED BIPHENYLS (PCBS)

The building was surveyed for the presence of liquid-cooled electrical units such as transformers and light ballasts. Such units are of possible environmental concern because they may be potential PCB sources. PCB units may subject the owner/operator to various regulatory requirements under the Toxic Substances Control Act (TSCA). The release of PCB fluids or their combustion products (in case of spill or fire) are potential environmental liabilities. Two pole-mounted transformers owned by DTE Energy were noted in the northern extent of the parking lot. The PCB status of these units is unknown.

In accordance with the USEPA Federal Regulations (40 CFR 761), nearly all fluorescent light ballasts manufactured prior to 1979 are assumed to contain PCBs, unless tested and found otherwise. All light ballasts manufactured after July 1, 1978, that do not contain PCBs are required to be clearly marked "No PCBs." Thus, light ballasts manufactured prior to 1979 are classified as PCB ballasts unless they are clearly marked and labeled "No PCBs".

During the survey, light fixtures were randomly accessed and "No PCBs" labels were observed on some accessed ballasts and not on others. Approximately **505** ballasts were observed in the building. Due to the large number, it was not feasible to access all the fixtures. As such, during the removal of the light fixtures, the ballasts will have to be segregated for disposal as universal waste based on their PCB status indicated on the labels.

Caulk, Glaze and Sealant Sampling

According to the USEPA - 40 CFR 761.3, PCB bulk product waste is derived from products manufactured to contain PCBs in non-liquid state at 50 ppm or greater. Because PCBs were added during manufacturing, caulk with a PCB concentration above 50 parts per million (ppm) or 50,000 parts per billion (ppb) is considered PCB bulk product waste. Materials manufactured with PCB concentrations less than 50 ppm are not considered PCB bulk product waste and can be treated as inert building material/debris during demolition. PCBs in four samples of caulk exceeded 50 ppm.

NTH sampled seven (7) caulk, glaze and sealant locations and submitted the samples to Merit Laboratories, Inc. (Merit) for PCB analysis. The results are recorded as µg/kg – micrograms per kilogram which is equivalent



to parts per billion (ppb). The results were converted to ppm in the table below. The locations of the collected samples are depicted on the PCB drawing in Appendix A. Laboratory data on PCB analysis is included in Appendix D.

The result of caulk, glaze and sealant materials is presented in the table below:

Sample	Material Description	Sample Location	Results (ppm)
PCB-1	Interior Window Glaze	Room 9, West Side	21
PCB-2	Glazing at Base of Windows	Room 9, West Side	27
PCB-3	Gray Interior Door Caulk	Main N-S Hallway at Double Doors & Windows	1.1
PCB-4	Interior Window Caulking	Room 20, West Side	189
PCB-5	Gray Exterior Expansion Joint	Room 11, North Side	91,000
PCB-6	Gray Exterior Window Caulk	Room 6	5,000
PCB-7	Gray Exterior Window Caulk	Room 20	49,300

PCBs have been known to leach from caulk and sealants to contaminate adjacent building materials. If the PCB-containing caulk and sealants, and adjacent contaminated building materials (where PCBs have leached) are removed and disposed of together, both materials are considered PCB bulk product waste. PCB bulk product waste can be disposed in a non-hazardous solid waste facility or Type II landfill provided the landfill is notified of the PCB-containing materials and disposal is allowed by the accepting facility.

If the PCB-containing caulk and sealants are removed, but the adjacent PCB-containing building materials remain, those building materials would be considered PCB remediation waste, which is subject to strict management and disposal requirements at concentrations down to one ppm. Prior to removal of PCB remediation waste, an investigation must be conducted in accordance with USEPA requirements including notification to USEPA. PCB remediation waste with PCB concentrations less than 50 ppm may be disposed in a non-hazardous landfill. The PCB remediation waste with PCB concentrations equal to or greater than 50 ppm must be disposed of at a TSCA-permitted facility.

3.4 MERCURY

The walk-thru survey of the building included observations for devices/equipment suspected of containing mercury. The following potential mercury-containing devices were observed in the building:

Devices	Approximate Quantity
4' Fluorescent light tubes	1,520
2' Fluorescent light tubes	8
U-shape fluorescent light tubes	40
Circular fluorescent light tubes	8



Devices	Approximate Quantity
Mercury vapor bulb	28
Thermometer	31
Compact fluorescent light (CFL)	70
Mercury switch/gauges	2

3.5 POTENTIALLY HAZARDOUS MATERIALS

The building was surveyed for the presence of potentially hazardous materials that may require special handling for offsite disposal purposes. The table below lists the potentially hazardous materials noted in the building.

Item/Material	Possible Contaminant	Approximate Quantity
Fire extinguisher	Calcium carbonate, Compressed gases	16
Hydraulic door closer	Petroleum products	105
Emergency light unit	Radioactive source and/or lead, nickel, cadmium, or other heavy metals	25
Exit sign	Lead, acid, tritium	15
Smoke Detector	Radioactive source and/or lead, nickel, cadmium, or other heavy metals	30
Oil water separator	Petroleum Product	5
Fire suppression system	R-102, compressed gases	1
Window air-conditioning unit	Chlorofluorocarbons (CFCs), refrigerants/coolants	8
Air-handling units	CFCs, refrigerants/coolants	18
Printer	Cathode ray tubes (CRTs) and metals	1
Monitor	CRTs and metals	2
Central processing unit	Metals	3
Keyboard	Metals	1
Scanner	CRTs and metals	1
Tires	Petroleum product	7
Drinking fountain	CFCs, refrigerants/coolants	13
Time switch battery	Lead, acid or other metals	1
Lead-acid battery	Lead and acid	6
Refrigerator	CFCs, refrigerants/coolants	1
Kitchen cooler, large	CFCs, refrigerants/coolants	1
Microwave	Radioactive source and metals	1
Motors	Petroleum product	7
Compressor	Petroleum product	1
Riding lawn mower	Petroleum products	1



3.6 STORED CHEMICALS

The following stored chemicals or products containing chemicals were observed in the building:

Material	Container Size	Approximate Quantity
Cement	20-pounds	1
Aerosol containers	8-19-ounces	19
Varnish	½-pint	1
Oil	4-ounce	1
Denatured alcohol	32-ounce	1
Silicone adhesive sealant	3-ounce	1
Cleaners	2-liter	3
Cleaners	1-liter	3
Floor cleaner	1-gallon	1
Cleaner, powder	21-ounce	1
Remover	4.5-ounce	1
Oils	1-gallon	3
Varnish	1-gallon	1
Lacquer	13-ounce	1
Unknown chemical	1-gallon	1
Propane tanks	Unknown	4

4.0 CONCLUSIONS

The HMS was conducted for the former Marshall Elementary School located at 33901 Curtis Road in Livonia, Michigan. The findings of this study are summarized below.

ACM

The following ACM were identified during this HMS:

HA No.	Material Description
2	Transite Panel
12	9"x9" brown floor tile
17	Window caulk around interior windows – hallway side
24	9"x9" gray floor tile
25	Window glazing, hard (under HA 8)
32	9"x9" tan floor tile
33	9"x9" light gray floor tile
34	Red shuffleboard tile
35	White shuffleboard trim tile
39	Black trim floor tile
41	White canvas vibration dampener
42	Incinerator-chimney door gasket
47	Door caulk



HA No.	Material Description
49	White sink undercoating
50	Circular light heat shield
54	Black vibration gasket on duct wall
55	Light pink sink undercoating
60	Door caulk
61	9"x9" tan floor tile with brown markings
64	Window caulking, interior
66	9"x9" gray floor tile with black markings
74	Coating of roof vent
94	Fire doors
95	Switchgear components

LCP and CCP

The HMS also included sampling and analysis of paint chips to determine lead and cadmium contents. Cadmium was detected in the following analyzed sample:

Sample No.	Paint Color & Description
PC-9	White with Off-White below Block Wall

Lead was detected in following six samples:

Sample No.	Paint Color & Description
PC-1	Off-White Metal Pipe
PC-2	White with Off-White below
PC-7	Gray Concrete Floor
PC-10	White Metal Pole
PC-11	White Metal Beam on Gym Roof
PC-12	White Metal Exterior Door

PCB Devices

Two pole-mounted transformers were noted in the northern extent of the parking lot. DTE Energy should be contacted if these transformers are to be removed during the demolition of the building.

NTH observed approximately 505 suspected PCB-containing light ballasts in the building. During the removal of the light fixtures, the ballasts should be separated for disposal based on their PCB label, if no label is present, it is considered to contain PCB.

NTH collected seven (7) caulk and sealant samples from the building for PCB analysis. PCBs are present above USEPA regulatory limits in samples: PCB-4, PCB-5, PCB-6, and PCB-7. PCBs from the caulk can leach into the adjacent porous building materials (i.e., brick, concrete, and mortar). Analytical results of the samples of adjacent building materials indicated that PCBs were below 50 ppm. Thus, the PCB-containing caulk and 3-inches of the brick, concrete sill, and mortar around the window caulk should be removed at the same time and disposed of as PCB bulk product waste.



Mercury-Containing Devices

Mercury containing fluorescent light bulbs, mercury vapor lights, thermometers, CFLs, and mercury switches and gauges were observed in the building.

Potentially Hazardous Materials / Chemical Containers

Potentially hazardous materials such as fire extinguishers, hydraulic door closers, emergency light units, exit signs, smoke detectors, oil water separators, fire suppression systems, air-conditioning units, air-handling units, office equipment, drinking fountains, tires, batteries, refrigerator, coolers, microwave, motors, compressor, riding lawn mower and containers of cleaners, oils, oils, paints and other store chemicals were observed in the building.

Specifications

NTH will prepare technical specifications for removal/abatement of hazardous materials identified in this report. These specifications are to be included in the demolition bid documents and provided to the contractors prior to initiating abatement/demolition work.

Abatement

A State of Michigan-licensed asbestos abatement/environmental contractor should be retained to abate and dispose of hazardous materials identified in this report. The abatement/demolition contractors should conduct pre-bid walk-through survey of the building to verify the locations and quantities of hazardous materials identified in this report.

Visual observations, verification of removal and cleanup, and air monitoring for asbestos fibers during abatement activity will be performed by NTH under a contract with Livonia Public.

The contractor performing the abatement and demolition activities will need to comply with Michigan Occupational Safety and Health Administration (MIOSHA) Part 603 (Lead Exposure in Construction), and Part 609 (Cadmium Exposure in Construction). Additionally, since demolition and abatement will require the cutting and crushing of concrete, mortar, and brick, the contractor will also need to comply with MIOSHA Part 690 (Silica in Construction).

5.0 LIMITATIONS

The findings and evaluations presented in this report are based on the scope of services defined herein and have been made to assist LPS in making a reasonable assessment of risk with respect to the possible presence of hazardous materials within the surveyed building. This study was performed in accordance with standards of care and diligence considered to be representative of industrial hygiene practices in this region at the present time.

The results of this assessment cannot and should not be construed as a certification of the final condition, actual quantities, or absence of any hazardous or regulated substances from, but rather a diligent and prudent review of available data within an established work scope, and time and budgetary restraints.



This report is intended for the exclusive use of LPS. The results of this study may not be relied upon by parties other than those identified above or without the prior knowledge and written consent of NTH.

Through the course of any hazardous materials survey, there are a number of obstacles and limitations that can affect the final outcome of the report. These limitations include, but are not limited to, the following factors: access concerns; limited building information; and materials that have been replaced during previous renovation activities. Due to these limitations, suspect building materials uncovered during demolition activities and not mentioned in this report should be sampled, analyzed, and dealt with based on the findings, in accordance with the regulations governing such materials.



APPENDIX A

- BUILDING LAYOUT PLAN
- SAMPLE LOCATION PLANS

TORNADO SHELTERS

Fire Extinguishers

shaded Areas

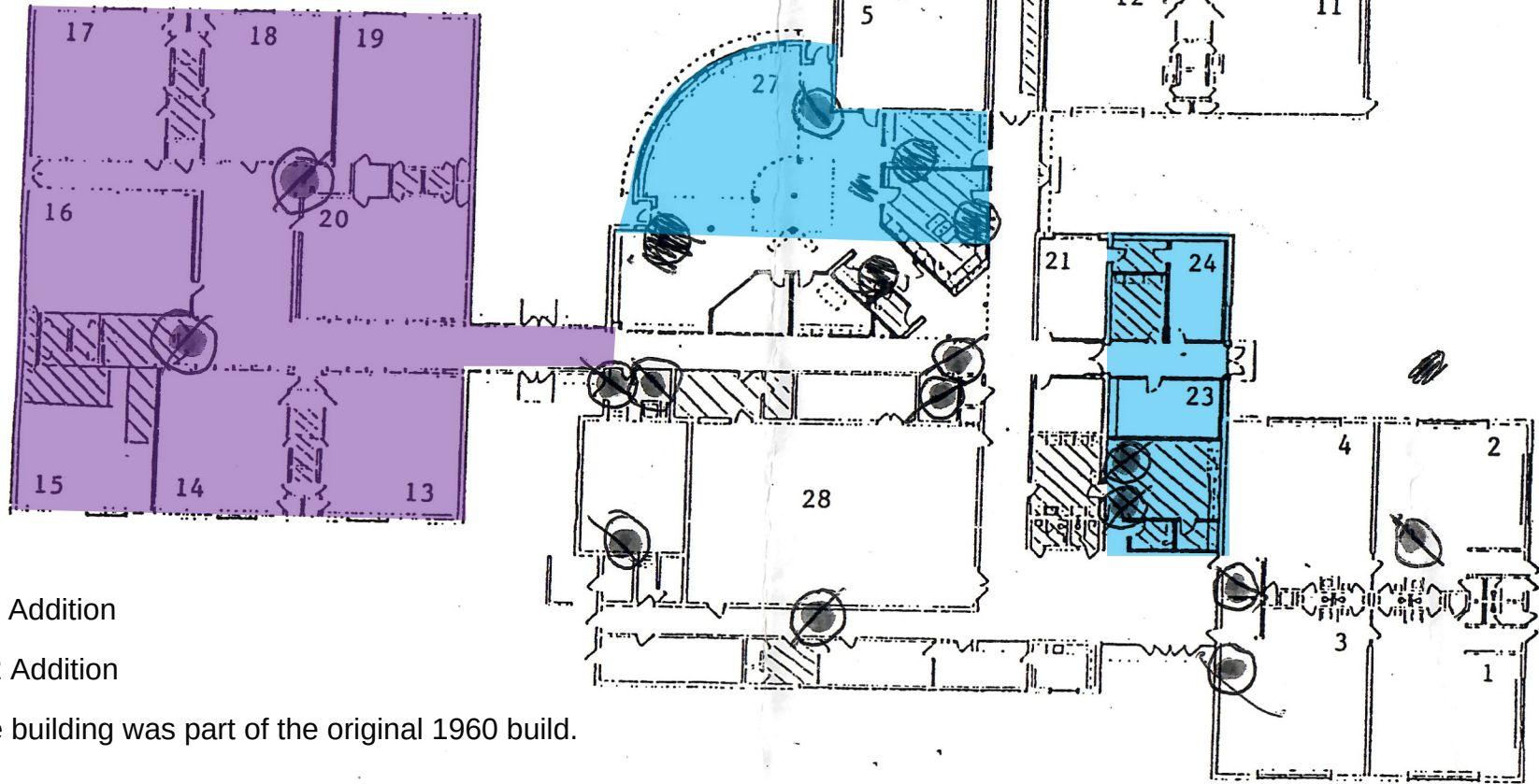
upon notice of a Tornado Warning, proceed to shelter

assist the handicapped

remain calm

remain in shelter until Tornado Warning is Terminated

Tornado Shelter for this Area:



1962 Addition

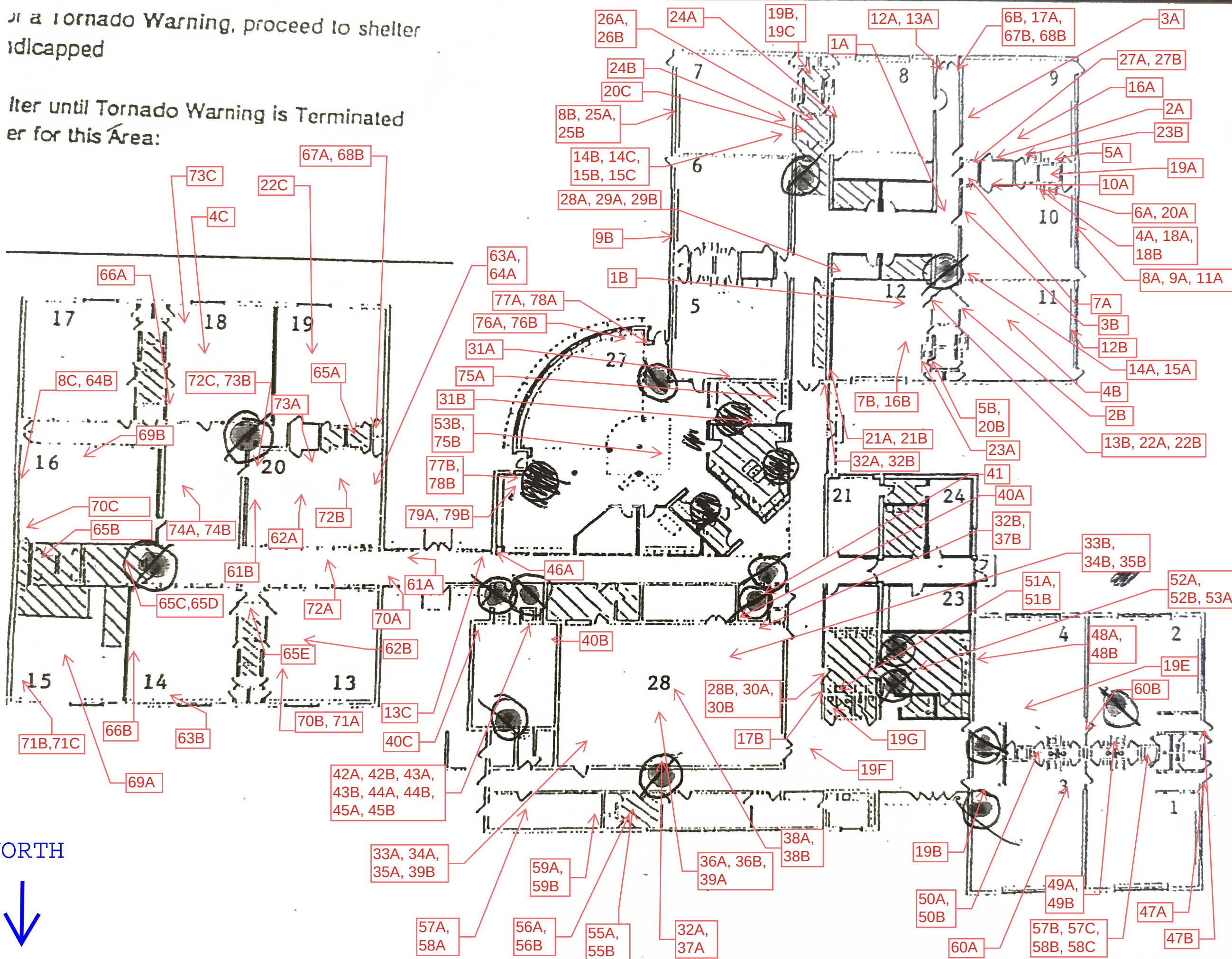
1992 Addition

Rest of the building was part of the original 1960 build.

Marshall Elementary School

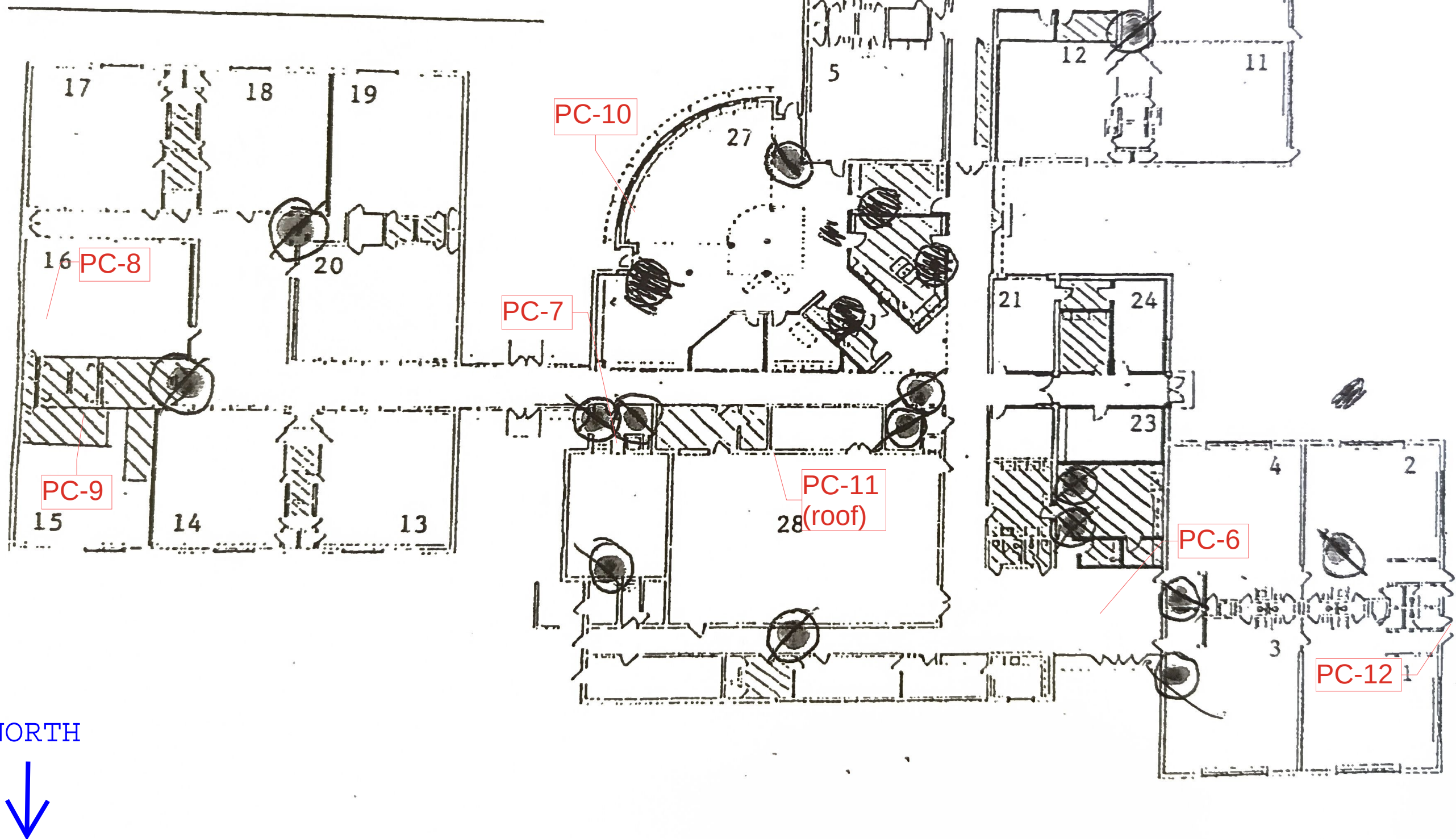
or a Tornado Warning, proceed to shelter
idcapped

lter until Tornado Warning is Terminated
er for this Area:



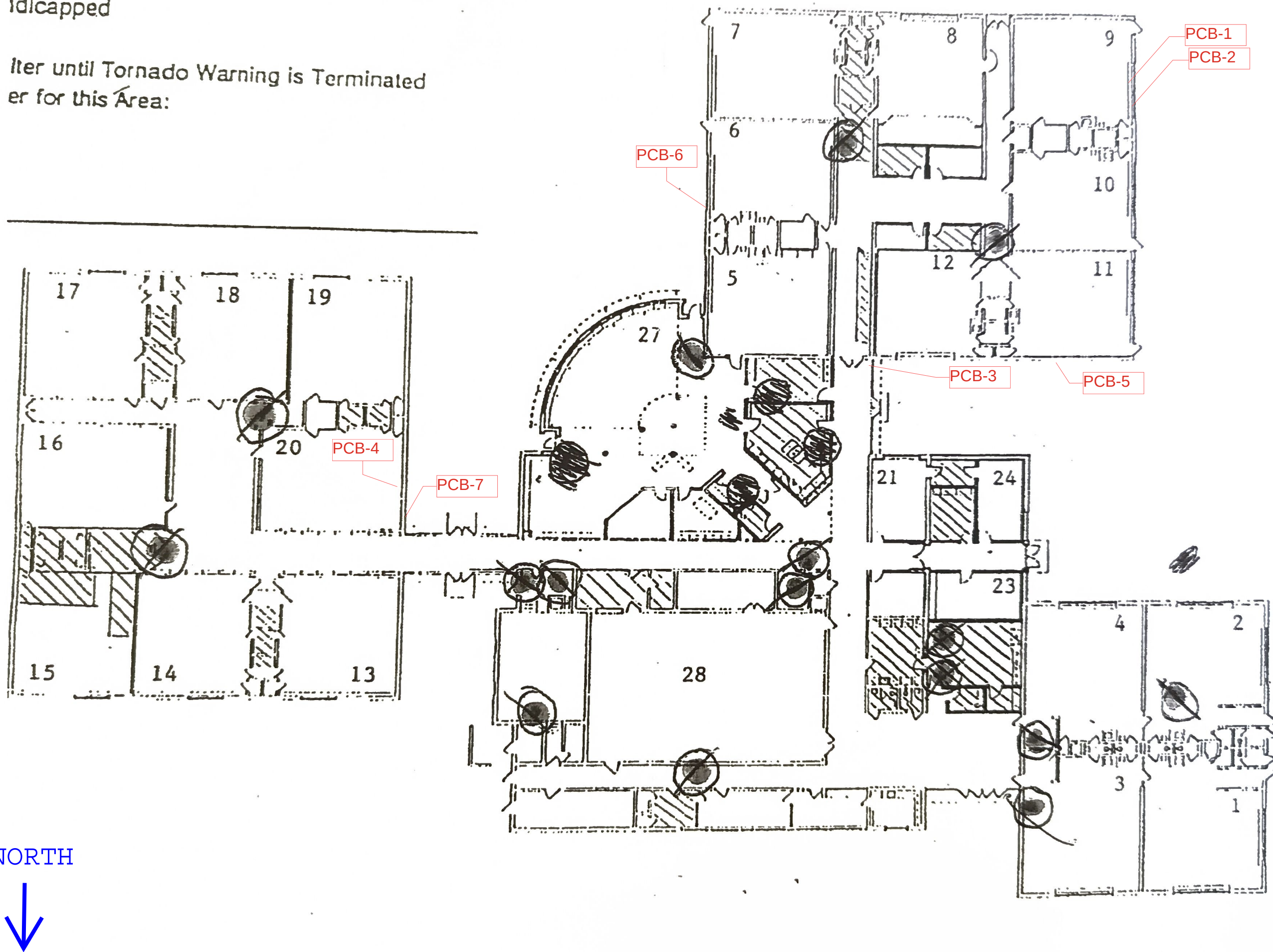
or a Tornado Warning, proceed to shelter
idcapped

lter until Tornado Warning is Terminated
er for this Area:



or a Tornado Warning, proceed to shelter
id capped

lter until Tornado Warning is Terminated
er for this Area:





APPENDIX B

- ASBESTOS LAB DATA

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 01 Cust. #: 1A Material: 2'x4' Ceiling Tile w/ Dugouts & Pinholes Location: S. Corridor near Room 10 Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 120849 - 02 Cust. #: 1B Material: 2'x4' Ceiling Tile w/ Dugouts & Pinholes Location: Room 12 - SW Corner Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Mineral Wool - 30% Other - 30%
Lab ID #: 120849 - 03 Cust. #: 2A Material: Transite Panel Location: Room 9 at Office Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



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Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 120849 - 04
Cust. #: 2B
Material: Transite
Location: Room 11 at Office
Appearance:
Layer: 1 of 1

Asbestos Present:

NOT ANALYZED

Lab ID #: 120849 - 05
Cust. #: 3A
Material: Floor Mastic
Location: Room 9 - W. Wall under Carpet
Appearance: black, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 1%
Other - 99%

Lab ID #: 120849 - 06
Cust. #: 3B
Material: Floor Mastic
Location: Room 10 - W. Wall under Carpet
Appearance: black, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 1%
Other - 99%

For Layered Samples, each component will be analyzed and reported separately.

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Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 07 Cust. #: 4A Material: Gray Floor Leveler under Pergo Location: Room 10 - S. Wall at Drinking Fountain Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 08 Cust. #: 4B Material: Gray Floor Leveler under Pergo Location: Room 11 - Middle Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 09 Cust. #: 4C Material: Gray Floor Leveler under Pergo Location: Room 18 - Middle Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 10 Cust. #: 5A Material: Mirror or Bulletin Board Glue Pod Location: Room 9 - N. Wall near Boys' Bathroom Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 11 Cust. #: 5B Material: Mirror or Bulletin Board Glue Pod Location: Room 12 - W. Wall at Sink Area Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 12 Cust. #: 6A Material: Fiberglass Insulation Location: Room 10 - S. Side at Sink Area Appearance: yellow, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 60% Other - 30%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

APEX Research Inc., 7717 Kensington Ct., Brighton, MI 48116
(734) 449-9990, Fax (734) 449-9991

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Test Method, Polarized Light Microscopy (PLM)
Project: Marshall Elementary School
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Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 13 Cust. #: 6B Material: Fiberglass Insulation Location: S. Corridor Chase - S. End Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 14 Cust. #: 6C Material: Fiberglass Insulation Location: Storage Room across from Office 30 Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 15 Cust. #: 7A Material: Fittings assoc. w/ HA6 Location: Custodial Closet between 9 & 10 Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 35% Other - 65%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 16 Cust. #: 7B Material: Fittings assoc. w/ HA6 Location: Room 12 near Bathrooms Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 35% Other - 65%
Lab ID #: 120849 - 17 Cust. #: 7C Material: Fittings assoc. w/ HA6 Location: Storage Room across from Office 30 Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 35% Other - 65%
Lab ID #: 120849 - 18 Cust. #: 8A Material: Interior Window Glaze - Silicon Location: Room 9 - W. Side Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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NVLAP Lab Code 102118-0

APEX Research Inc., 7717 Kensington Ct., Brighton, MI 48116
(734) 449-9990, Fax (734) 449-9991

Certificate of Laboratory Analysis
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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 19 Cust. #: 8B Material: Interior Window Glaze - Silicon Location: Room 7 - E. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 20 Cust. #: 8C Material: Interior Window Glaze - Silicon Location: Room 16 - E. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 21 Cust. #: 9A Material: Thin White Window Glaze Location: Room 10 - W. Side Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 22 Cust. #: 9B Material: Thin White Window Glaze Location: Room 6 - E. Side Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 23 Cust. #: 10A Material: Caulking around Transite & Interior Windows Location: Office between 9 & 10 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 24 Cust. #: 10B Material: Caulking around Transite & Interior Windows Location: Office between 9 & 10 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 25 Cust. #: 11A Material: Glazing at Base of Windows Location: Room 9 - W. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 26 Cust. #: 11B Material: Glazing at Base of Windows Location: Room 11 - W. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 27 Cust. #: 12A Material: 9"x9" Brown Floor Tile Location: S. Corridor near Exterior Doors Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 27a Cust. #: 12A Material: Mastic Location: S. Corridor near Exterior Doors Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 28 Cust. #: 12B Material: 9"x9" Brown Floor Tile Location: N.-S. Corridor across from Work Room Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 28a Cust. #: 12B Material: Mastic Location: N.-S. Corridor across from Work Room Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 29 Cust. #: 13A Material: White Floor Leveler Location: S. Corridor near Exterior Doors Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 30 Cust. #: 13B Material: White Floor Leveler Location: S. Corridor at Threshold to Room 12 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 31 Cust. #: 13C Material: White Floor Leveler Location: Middle Corridor at Connector to 1962 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 32 Cust. #: 14A Material: Roof Drain Pipe Insulation w/ Black & Foil Wrap Location: Room 10 - NE Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 20% Other - 70%
Lab ID #: 120849 - 33 Cust. #: 14B Material: Roof Drain Pipe Insulation w/ Black & Foil Wrap Location: Room 7 - NW Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 20% Other - 70%
Lab ID #: 120849 - 34 Cust. #: 14C Material: Roof Drain Pipe Insulation w/ Black & Foil Wrap Location: Room 7 - NW Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 20% Other - 70%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 35 Cust. #: 15A Material: Roof Drain Pipe Insulation Location: Room 10 - NE Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 120849 - 36 Cust. #: 15B Material: Roof Drain Pipe Insulation Location: Room 7 - NW Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 120849 - 37 Cust. #: 15C Material: Roof Drain Pipe Insulation Location: Room 7 - NW Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 38 Cust. #: 16A Material: Black Cove Base Location: Room 9 Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 38a Cust. #: 16A Material: Adhesive Location: Room 9 Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 39 Cust. #: 16B Material: Black Cove Base Location: Room 12 Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 39a Cust. #: 16B Material: Adhesive Location: Room 12 Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 40 Cust. #: 17A Material: Window Caulk around Interior Windows - Hallway Side Location: Hallway at Room 9 - S. End Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 1.25% POINT COUNT RESULT	Other - 98.75%
Lab ID #: 120849 - 41 Cust. #: 17B Material: Window Caulk around Interior Windows - Hallway Side Location: N.-S. Corridor at Kitchen - N. End Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 42 Cust. #: 18A Material: 12"x12" White Floor Tile w/ Rainbow Markings Location: Room 10 - S. Wall at Sink Area Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 42a Cust. #: 18A Material: Mastic Location: Room 10 - S. Wall at Sink Area Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 43 Cust. #: 18B Material: 12"x12" White Floor Tile w/ Rainbow Markings Location: Room 10 - S. Wall at Sink Area Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 43a Cust. #: 18B Material: Mastic Location: Room 10 - S. Wall at Sink Area Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 44 Cust. #: 19A Material: Plaster Finish Coat Location: Boys' Bathroom between Rooms 9 & 10 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 44a Cust. #: 19A Material: Plaster Base Coat Location: Boys' Bathroom between Rooms 9 & 10 Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Mica -10% Other - 89%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 45 Cust. #: 19B Material: Plaster Finish Coat Location: Boys' Bathroom between Room 7 & 8 Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 45a Cust. #: 19B Material: Plaster Base Coat Location: Boys' Bathroom between Room 7 & 8 Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Mica - 10% Other - 89%
Lab ID #: 120849 - 46 Cust. #: 19C Material: Plaster Finish Coat Location: Boys' Bathroom between Room 7 & 8 Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 46a Cust. #: 19C Material: Plaster Base Coat Location: Boys' Bathroom between Room 7 & 8 Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Mica -10% Other - 89%
Lab ID #: 120849 - 47 Cust. #: 19D Material: Plaster Finish Coat Location: Room 3 - Lower Ceiling at Entrance Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 47a Cust. #: 19D Material: Plaster Base Coat Location: Room 3 - Lower Ceiling at Entrance Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Mica -10% Other - 89%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 48 Cust. #: 19E Material: Plaster Finish Coat Location: Room 4 - Lower Ceiling, N. Side Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 48a Cust. #: 19E Material: Plaster Base Coat Location: Room 4 - Lower Ceiling, N. Side Appearance: grey, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Mica - 10% Other - 89%
Lab ID #: 120849 - 49 Cust. #: 19F Material: Plaster Finish Coat Location: Lobby Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

APEX Research Inc., 7717 Kensington Ct., Brighton, MI 48116
(734) 449-9990, Fax (734) 449-9991

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 49a Cust. #: 19F Material: Plaster Base Coat Location: Lobby Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Mica -10% Other - 89%
Lab ID #: 120849 - 50 Cust. #: 19G Material: Plaster Finish Coat Location: Lobby Boys' Bathroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 50a Cust. #: 19G Material: Plaster Base Coat Location: Lobby Boys' Bathroom Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Mica -10% Other - 89%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 51 Cust. #: 20A Material: Fiberglass Insulation w/ Black & Foil Wrap Location: Room 10 - S. Wall at Sink Area Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 30% Other - 60%
Lab ID #: 120849 - 52 Cust. #: 20B Material: Fiberglass Insulation w/ Black & Foil Wrap Location: Room 12 - W. Wall at Sink Area Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 30% Other - 60%
Lab ID #: 120849 - 53 Cust. #: 20C Material: Fiberglass Insulation w/ Black & Foil Wrap Location: Custodial Closet at S. End of N.-S. Hallway Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 30% Other - 60%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 54 Cust. #: 21A Material: Drywall Location: Room 12 - Upper NE Wall Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 120849 - 55 Cust. #: 21B Material: Drywall Location: Room 12 - Upper NE Wall Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 120849 - 56 Cust. #: 22A Material: Beige Mottle Floor Tile Location: At Threshold to Room 12 Appearance: beige, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 56a Cust. #: 22A Material: Mastic Location: At Threshold to Room 12 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 57 Cust. #: 22B Material: Beige Mottle Floor Tile Location: At Threshold to Room 12 Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 57a Cust. #: 22B Material: Mastic Location: At Threshold to Room 12 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 58 Cust. #: 22C Material: Beige Mottle Floor Tile Location: Room 19 - Middle under HA 19 Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 58a Cust. #: 22C Material: Mastic Location: Room 19 - Middle under HA 19 Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 59 Cust. #: 23A Material: White Sink Caulking Location: Room 12 - W. Wall Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 60 Cust. #: 23B Material: White Sink Caulking Location: Room 9 - N. Side Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 61 Cust. #: 24A Material: Yellow Glue Location: Room 8 - E. Wall Appearance: yellow, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 61a Cust. #: 24A Material: 9"x9" Gray Floor Tile Location: Room 8 - E. Wall Appearance: grey, fibrous, homogenous Layer: 2 of 3	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 61b Cust. #: 24A Material: Mastic Location: Room 8 - E. Wall Appearance: black,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 62 Cust. #: 24B Material: Yellow Glue Location: Room 8 - E. Wall Appearance: yellow,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 62a Cust. #: 24B Material: 9"x9" Gray Floor Tile Location: Room 7 - W. Side Appearance: Layer: 2 of 3	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 62b Cust. #: 24B Material: Mastic Location: Room 7 - W. Side Appearance: black,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 63 Cust. #: 25A Material: Window Glazing - Hard, Under HA8 Location: Room 7 - E. Side Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 1.50% POINT COUNT RESULT	Other - 98.50%
Lab ID #: 120849 - 64 Cust. #: 25B Material: Window Glazing - Hard, Under HA8 Location: Room 7 - E. Side Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 65 Cust. #: 26A Material: 12"x12" Blue Mottle Floor Tile Location: Custodial Closet at S. End of N.-S. Corridor Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 65a Cust. #: 26A Material: Mastic Location: Custodial Closet at S. End of N.-S. Corridor Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 66 Cust. #: 26B Material: 12"x12" Blue Mottle Floor Tile Location: Custodial Closet at S. End of N.-S. Corridor Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 66a Cust. #: 26B Material: Mastic Location: Custodial Closet at S. End of N.-S. Corridor Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 67 Cust. #: 27A Material: Packing at Base of Sanitary Drain Location: Custodial Closet in S. Corridor Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 68 Cust. #: 28A Material: 12"x12" White Floor Tile w/ Pastel Markings Location: Storage Room across from Office 29 Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 68a Cust. #: 28A Material: Glue Location: Storage Room across from Office 29 Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 69 Cust. #: 28B Material: 12"x12" White Floor Tile w/ Pastel Markings Location: Kitchen at E. Door Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 69a Cust. #: 28B Material: Glue Location: Kitchen at E. Door Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 70 Cust. #: 29A Material: Paper under HA 28 & over HA 12 Location: Storage Room across from Office 29 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 120849 - 71 Cust. #: 29B Material: Paper under HA 28 & over HA 12 Location: Storage Room across from Office 29 Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 120849 - 72 Cust. #: 30A Material: Mastic Location: Kitchen at E. Door Appearance: black, nonfibrous, homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 72a Cust. #: 30A Material: White Filler under HA 28 Location: Kitchen at E. Door Appearance: white,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 72b Cust. #: 30A Material: Mastic Location: Kitchen at E. Door Appearance: black,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 73 Cust. #: 30B Material: Mastic Location: Kitchen at E. Door Appearance: black,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 73a Cust. #: 30B Material: White Filler under HA 28 Location: Kitchen at E. Door Appearance: white,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 73b Cust. #: 30B Material: Mastic Location: Kitchen at E. Door Appearance: black,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 74 Cust. #: 31A Material: Tan Chalkboard Caulk Location: Room 5 - N. Wall Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 75 Cust. #: 31B Material: Tan Chalkboard Caulk Location: Room 25 - N. Wall Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 76 Cust. #: 93A Material: Gray Caulk w/ Old below Location: N.-S. Corridor at Windows across from Work Room Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 77 Cust. #: 93B Material: Gray Caulk w/ Old below Location: N.-S. Corridor at Windows across from Work Room Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 78 Cust. #: 32A Material: 9"x9" Tan Floor Tile Location: Gym - N. Side, Middle Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 1.50% POINT COUNT RESULT	Other - 98.50%
Lab ID #: 120849 - 78a Cust. #: 32A Material: Mastic Location: Gym - N. Side, Middle Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 79 Cust. #: 32B Material: 9"x9" Tan Floor Tile Location: Gym - SW at Drinking Fountain Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 79a Cust. #: 32B Material: Mastic Location: Gym - SW at Drinking Fountain Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 80 Cust. #: 33A Material: 9"x9" Light Gray Floor Tile Location: Gym - NE at Shuffleboard Appearance: grey,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 2.75% POINT COUNT RESULT	Other - 97.25%
Lab ID #: 120849 - 80a Cust. #: 33A Material: Mastic Location: Gym - NE at Shuffleboard Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 120849 - 81
Cust. #: 33B
Material: 9"x9" Light Gray Floor Tile
Location: Gym - SW at Shuffleboard
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 120849 - 81a
Cust. #: 33B
Material: Mastic
Location: Gym - SW at Shuffleboard
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 1%
Other - 99%

Lab ID #: 120849 - 82
Cust. #: 34A
Material: Red Shuffleboard Tile
Location: Gym - NE at Shuffleboard
Appearance: red, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 3.50%

Other - 96.50%

POINT COUNT RESULT

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 82a Cust. #: 34A Material: Mastic Location: Gym - NE at Shuffleboard Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 83 Cust. #: 34B Material: Red Shuffleboard Tile Location: Gym - SW at Shuffleboard Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 83a Cust. #: 34B Material: Mastic Location: Gym - SW at Shuffleboard Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 84 Cust. #: 35A Material: White Shuffleboard Trim Tile Location: Gym - NE at Shuffleboard Appearance: white, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 120849 - 84a Cust. #: 35A Material: Mastic Location: Gym - NE at Shuffleboard Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 85 Cust. #: 35B Material: White Shuffleboard Trim Tile Location: Gym - SW at Shuffleboard Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 85a Cust. #: 35B Material: Mastic Location: Gym - SW at Shuffleboard Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 86 Cust. #: 36A Material: Blue Speckled Replacement Tile Location: Gym - Middle Appearance: blue,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 86a Cust. #: 36A Material: Glue Location: Gym - Middle Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 87 Cust. #: 36B Material: Blue Speckled Replacement Tile Location: Gym - Middle Appearance: blue, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 87a Cust. #: 36B Material: Glue Location: Gym - Middle Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 88 Cust. #: 37A Material: Black Floor Tile Location: Gym - N. Side, Middle Appearance: black, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 88a Cust. #: 37A Material: Mastic Location: Gym - N. Side, Middle Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 89 Cust. #: 37B Material: Black Floor Tile Location: Gym - SW at Drinking Fountain Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 89a Cust. #: 37B Material: Mastic Location: Gym - SW at Drinking Fountain Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 90 Cust. #: 38A Material: Red Replacement Tile Location: Gym - Middle Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 90a Cust. #: 38A Material: Mastic Location: Gym - Middle Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 91 Cust. #: 38B Material: Red Replacement Tile Location: Gym - Middle Appearance: red,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 91a Cust. #: 38B Material: Mastic Location: Gym - Middle Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 92 Cust. #: 39A Material: Black Trim Floor Tike Location: Gym - Middle Appearance: black,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 3.00% POINT COUNT RESULT	Other - 97.00%
Lab ID #: 120849 - 92a Cust. #: 39A Material: Mastic Location: Gym - Middle Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 93 Cust. #: 39B Material: Black Trim Floor Tike Location: Gym - NE at Shuffleboard Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 93a Cust. #: 39B Material: Mastic Location: Gym - NE at Shuffleboard Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 94 Cust. #: 40A Material: New Fiberglass Pipe Insulation Location: Fan Room Appearance: yellow,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 80% Other - 10%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 95 Cust. #: 40B Material: New Fiberglass Pipe Insulation Location: Boiler Room - SW Appearance: yellow, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 80% Other - 10%
Lab ID #: 120849 - 96 Cust. #: 40C Material: New Fiberglass Pipe Insulation Location: Boiler Room - SE Appearance: yellow, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 80% Other - 10%
Lab ID #: 120849 - 97 Cust. #: 42A Material: Incinerator-Chimney Door Gasket Location: Boiler Room - SW, Lower Door Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 50%	Cellulose - 30% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 98 Cust. #: 42B Material: Incinerator-Chimney Door Gasket Location: Boiler Room - SW, Lower Door Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 99 Cust. #: 43A Material: Yellow Interior Chimney Tile Location: Boiler Room - SW Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 100 Cust. #: 43B Material: Yellow Interior Chimney Tile Location: Boiler Room - SW Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 101 Cust. #: 44A Material: Chimney Masonry Block Location: Boiler Room - SW Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 102 Cust. #: 44B Material: Chimney Masonry Block Location: Boiler Room - SW Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 103 Cust. #: 45A Material: Chimney Brick Location: Boiler Room - SW Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 104 Cust. #: 45B Material: Chimney Brick Location: Boiler Room - SW Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 105 Cust. #: 46A Material: Wall Sealant between Brick & Block Location: Middle Hallway - E. End of 1960 Wing Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 106 Cust. #: 46B Material: Wall Sealant between Brick & Block Location: Middle Hallway - E. End of 1960 Wing Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 107 Cust. #: 47A Material: Door Caulk Location: Room 2 - E. Exterior Door Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 1.50% POINT COUNT RESULT	Other - 98.50%
Lab ID #: 120849 - 108 Cust. #: 47B Material: Door Caulk Location: Room 1 - E. Exterior Door Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 109 Cust. #: 48A Material: Dark Brown Glue Pods for Canvas Boards Location: Room 4 - E. Wall Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 110 Cust. #: 48B Material: Dark Brown Glue Pods for Canvas Boards Location: Room 4 - E. Wall Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 111 Cust. #: 49A Material: White Sink Undercoating Location: Room 2 - N. Side Appearance: pink, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 1.50% POINT COUNT RESULT	Cellulose - 5% Other - 93.50%
Lab ID #: 120849 - 112 Cust. #: 49B Material: White Sink Undercoating Location: Room 2 - N. Side Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 113 Cust. #: 50A Material: Circular Light Heat Shield Location: Room 4 - Boys' Bathroom Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 60%	Other - 40%
Lab ID #: 120849 - 114 Cust. #: 50B Material: Circular Light Heat Shield Location: Room 4 - Boys' Bathroom Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 115 Cust. #: 51A Material: Black Sink Undercoating Location: Kitchen Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 116 Cust. #: 51B Material: Black Sink Undercoating Location: Kitchen Appearance: black, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 120849 - 117 Cust. #: 52A Material: 2'x2' Gypsum Ceiling Tile Location: Kitchen Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 120849 - 118 Cust. #: 52B Material: 2'x2' Gypsum Ceiling Tile Location: Kitchen Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 119 Cust. #: 53A Material: Gray Duct Sealant Location: Kitchen - Middle Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 120 Cust. #: 53B Material: Gray Duct Sealant Location: Library - W. End Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 121 Cust. #: 55A Material: Light Pink Sink Undercoating Location: Office Clinic Appearance: pink,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 1.75% POINT COUNT RESULT	Other - 98.25%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 122 Cust. #: 55B Material: Light Pink Sink Undercoating Location: Office Clinic Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 123 Cust. #: 56A Material: Brown Pebble Pattern Countertop Location: Office Clinic Appearance: brown, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 120849 - 123a Cust. #: 56A Material: Glue Location: Office Clinic Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 124 Cust. #: 56B Material: Brown Pebble Pattern Countertop Location: Office Clinic Appearance: brown, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 120849 - 124a Cust. #: 56B Material: Glue Location: Office Clinic Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 125 Cust. #: 57A Material: Exposed Pipe Insulation Location: Receiving Room at Heater Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 126 Cust. #: 57B Material: Exposed Pipe Insulation Location: Room 1 Closet - Purple Line Appearance: yellow, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 127 Cust. #: 57C Material: Exposed Pipe Insulation Location: Room 1 Closet - Green Line Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 128 Cust. #: 58A Material: Exposed Pipe Fitting Location: Receiving Room at Heater Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 129 Cust. #: 58B Material: Exposed Pipe Fitting Location: Room 1 Closet - Green Line Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 30% Other - 70%
Lab ID #: 120849 - 130 Cust. #: 58C Material: Exposed Pipe Fitting Location: Room 1 Closet - Purple Line Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 120849 - 131 Cust. #: 59A Material: Lightweight Concrete between Upper Block Wall & Metal Ceiling Location: Receiving Room - W. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 132 Cust. #: 59B Material: Lightweight Concrete between Upper Block Wall & Metal Ceiling Location: Receiving Room - W. Side Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 133 Cust. #: 60A Material: Door Caulk Location: Room 1 - Above E. Door Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2.75% POINT COUNT RESULT	Other - 97.25%
Lab ID #: 120849 - 134 Cust. #: 60B Material: Door Caulk Location: Room 2 - Above E. Door Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 135 Cust. #: 61A Material: 9"x9" Tan Floor Tile w/ Brown Markings Location: Corridor between 1960 & 1962 Wings Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 120849 - 135a Cust. #: 61A Material: Mastic Location: Corridor between 1960 & 1962 Wings Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 136 Cust. #: 61B Material: 9"x9" Tan Floor Tile w/ Brown Markings Location: Room 20 - E. Side Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 136a Cust. #: 61B Material: Mastic Location: Room 20 - E. Side Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 137 Cust. #: 62A Material: Mastic under Pergo Floor Location: Room 20 - Middle Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 138 Cust. #: 62B Material: Mastic under Pergo Floor Location: Room 13 - Middle Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 139 Cust. #: 63A Material: Window Glazing - Thin Location: Room 20 - W. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 140 Cust. #: 63B Material: Window Glazing - Thin Location: Room 14 - N. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 141 Cust. #: 64A Material: Window Caulking - Interior Location: Room 20 - W. Side Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 1.75% POINT COUNT RESULT	Other - 98.25%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 142 Cust. #: 64B Material: Window Caulking - Interior Location: Room 16 - E. Side Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 143 Cust. #: 65A Material: Plaster Finish Coat Location: Room 20 - Boys' Bathroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 143a Cust. #: 65A Material: Plaster Base Coat Location: Room 20 - Boys' Bathroom Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 144 Cust. #: 65B Material: Plaster Finish Coat Location: Room 16 - Boys' Bathroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 144a Cust. #: 65B Material: Plaster Base Coat Location: Room 16 - Boys' Bathroom Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 145 Cust. #: 65C Material: Plaster Finish Coat Location: Custodial Closet Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 145a Cust. #: 65C Material: Plaster Base Coat Location: Custodial Closet Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 146 Cust. #: 65D Material: Plaster Finish Coat Location: Custodial Closet Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 146a Cust. #: 65D Material: Plaster Base Coat Location: Custodial Closet Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 147 Cust. #: 65E Material: Plaster Finish Coat Location: Room 13 - Girls' Bathroom Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 147a Cust. #: 65E Material: Plaster Base Coat Location: Room 13 - Girls' Bathroom Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 148 Cust. #: 66A Material: 9"x9" Gray Floor Tile w/ Black Markings Location: Room 18 - NE Corner Appearance: grey,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 148a Cust. #: 66A Material: Mastic Location: Room 18 - NE Corner Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 149 Cust. #: 66B Material: 9"x9" Gray Floor Tile w/ Black Markings Location: Room 14 - E. Side Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 149a Cust. #: 66B Material: Mastic Location: Room 14 - E. Side Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 150 Cust. #: 67A Material: Masonry Block Location: Room 19 - Closet Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 151 Cust. #: 67B Material: Masonry Block Location: S. Hallway - Chase at S. Door Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 152 Cust. #: 68A Material: Block Mortar Location: Room 19 - Closet Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 153 Cust. #: 68B Material: Block Mortar Location: S. Hallway - Chase at S. Door Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 154 Cust. #: 69A Material: Pergo Floor Location: Room 15 - Middle Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 155 Cust. #: 69B Material: Pergo Floor Location: Room 16 - S. Side Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 156 Cust. #: 70A Material: Fiberglass Pipe Insulation w/ Black & Foil Wrap Location: Corridor between 1960 & 1962 Wings Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 157 Cust. #: 70B Material: Fiberglass Pipe Insulation w/ Black & Foil Wrap Location: Room 13 Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 158 Cust. #: 70C Material: Fiberglass Pipe Insulation w/ Black & Foil Wrap Location: Room 16 - NE Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 159 Cust. #: 71A Material: Fittings assoc. w/ HA 70 Location: Room 13 Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 120849 - 160 Cust. #: 71B Material: Fittings assoc. w/ HA 70 Location: Room 15 - NE Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 120849 - 161 Cust. #: 71C Material: Fittings assoc. w/ HA 70 Location: Room 15 - NE Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 162 Cust. #: 72A Material: Fiberglass Pipe Insulation Location: Corridor outside of Room 20 Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 163 Cust. #: 72B Material: Fiberglass Pipe Insulation Location: Room 20 - SW Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%
Lab ID #: 120849 - 164 Cust. #: 72C Material: Fiberglass Pipe Insulation Location: Room 20 - SE Appearance: yellow, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 70% Other - 20%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 165 Cust. #: 73A Material: Fittings assoc. w/ HA 72 Location: Room 20 - N. of Baths Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 120849 - 166 Cust. #: 73B Material: Fittings assoc. w/ HA 72 Location: Room 20 - SE Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%
Lab ID #: 120849 - 167 Cust. #: 73C Material: Fittings assoc. w/ HA 72 Location: Room 18 - SE Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 168 Cust. #: 74A Material: Coating of Roof Vent Location: 1962 - Corridor, Middle Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 120849 - 169 Cust. #: 74B Material: Coating of Roof Vent Location: 1962 - Corridor, Middle Appearance: Layer: 1 of 1	Asbestos Present: NOT ANALYZED	
Lab ID #: 120849 - 170 Cust. #: 75A Material: 2'x2' Ceiling Tile, Textured Location: Room 25 - W. Side Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 70% Other - 30%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 171 Cust. #: 75B Material: 2'x2' Ceiling Tile, Textured Location: Library - W. Side Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Mineral Wool - 70% Other - 30%
Lab ID #: 120849 - 172 Cust. #: 76A Material: Brown Glue Pods under Soundproofing Panels Location: Library - S. Side Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 173 Cust. #: 76B Material: Brown Glue Pods under Soundproofing Panels Location: Library - S. Side Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 174 Cust. #: 77A Material: Drywall Location: Library - S. Side Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 120849 - 175 Cust. #: 77B Material: Drywall Location: Library - E. Side Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 120849 - 176 Cust. #: 78A Material: Joint Compound Location: Library - S. Side Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 177 Cust. #: 78B Material: Joint Compound Location: Library - E. Side Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 178 Cust. #: 79A Material: Light Gray Floor Leveler Location: Library - E. Side Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 120849 - 179 Cust. #: 79B Material: Light Gray Floor Leveler Location: Library - E. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 180 Cust. #: 80A Material: Gymnasium Window Glazing Location: Gym - N. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 181 Cust. #: 80B Material: Gymnasium Window Glazing Location: Gym - N. Side Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 120849 - 182 Cust. #: 81A Material: Drywall & Paper Location: Rooftop Mechanical Room - E. Side Appearance: white,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 182a Cust. #: 81A Material: Tape Location: Rooftop Mechanical Room - E. Side Appearance: white, fibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 120849 - 182b Cust. #: 81A Material: Mud Location: Rooftop Mechanical Room - E. Side Appearance: white, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 183 Cust. #: 81B Material: Drywall & Paper Location: Rooftop Mechanical Room - E. Side Appearance: white, fibrous, nonhomogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 183a Cust. #: 81B Material: Tape Location: Rooftop Mechanical Room - E. Side Appearance: white, fibrous, homogenous Layer: 2 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 80% Other - 20%
Lab ID #: 120849 - 183b Cust. #: 81B Material: Mud Location: Rooftop Mechanical Room - E. Side Appearance: white, nonfibrous, homogenous Layer: 3 of 3	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 184 Cust. #: 82A Material: White Sealant around Gym Windows Location: Roof - S. Side of Gym Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 185 Cust. #: 82B Material: White Sealant around Gym Windows Location: Roof - S. Side of Gym Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 186 Cust. #: 83A Material: Roofing Materials Location: 1960 Wing - NW Appearance: white, fibrous, nonhomogenous Layer: 1 of 4	Asbestos Present: NO No Asbestos Observed	Synthetic - 15% Other - 85%
Lab ID #: 120849 - 186a Cust. #: 83A Material: Foam Location: 1960 Wing - NW Appearance: pink, nonfibrous, homogenous Layer: 2 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 186b Cust. #: 83A Material: Cloth Location: 1960 Wing - NW Appearance: white, fibrous, homogenous Layer: 3 of 4	Asbestos Present: NO No Asbestos Observed	Synthetic - 70% Other - 30%
Lab ID #: 120849 - 186c Cust. #: 83A Material: Tar Location: 1960 Wing - NW Appearance: black, nonfibrous, homogenous Layer: 4 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 187 Cust. #: 83B Material: Roofing Materials Location: 1962 Wing - W. Side Appearance: white, fibrous, nonhomogenous Layer: 1 of 4	Asbestos Present: NO No Asbestos Observed	Synthetic - 20% Other - 80%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: Marshall Elementary School
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Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 187a Cust. #: 83B Material: Foam Location: 1962 Wing - W. Side Appearance: pink,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 187b Cust. #: 83B Material: Cloth Location: 1962 Wing - W. Side Appearance: white,fibrous,homogenous Layer: 3 of 4	Asbestos Present: NO No Asbestos Observed	Synthetic - 70% Other - 30%
Lab ID #: 120849 - 187c Cust. #: 83B Material: Tar Location: 1962 Wing - W. Side Appearance: black,nonfibrous,homogenous Layer: 4 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 188 Cust. #: 84A Material: Sealant between Membrane & Upper Gym Wall Location: Roof - W. Side of Gym Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 189 Cust. #: 84B Material: Sealant between Membrane & Upper Gym Wall Location: Roof - W. Side of Gym Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 190 Cust. #: 85A Material: Gray Expansion Joint Location: Near Main Entrance Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.", is positioned above a horizontal line.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 191 Cust. #: 85B Material: Gray Expansion Joint Location: N. Side of Room 11 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 192 Cust. #: 86A Material: Gray Exterior Window Caulking Location: N. Side - W. of Entrance Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 193 Cust. #: 86B Material: Gray Exterior Window Caulking Location: Exterior of Room 12 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 194 Cust. #: 87A Material: Door & Window Caulk at Connectors Location: W. Side of 1960 Connector Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 195 Cust. #: 87B Material: Door & Window Caulk at Connectors Location: W. Side of 1960 Connector Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 196 Cust. #: 88A Material: White Door Caulk Location: Exterior of Room 7 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 197 Cust. #: 88B Material: White Door Caulk Location: Exterior of Room 7 Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 198 Cust. #: 89A Material: White Exterior Window Caulk (1992) Location: Library - S. Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 199 Cust. #: 89B Material: White Exterior Window Caulk (1992) Location: Library - E. Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 200 Cust. #: 90A Material: Light Gray Exterior Expansion Joint Location: Library - S. Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 201 Cust. #: 90B Material: Light Gray Exterior Expansion Joint Location: Library - S. Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 202 Cust. #: 91A Material: Gray Exterior Window Caulk Location: Room 20 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 203 Cust. #: 91B Material: Gray Exterior Window Caulk Location: Room 20 Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 204 Cust. #: 92A Material: Black Exterior Mastic Location: Exterior of Room 19 - S. Side Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 120849 - 205 Cust. #: 92B Material: Black Exterior Mastic Location: Exterior of Room 19 - S. Side Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 40 CFR - Part 763 and/or EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples as submitted and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Liability limited to cost of analysis.



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: Marshall Elementary School
Project #: 25002747-01



Report To:

Mr. Bhushan Modi
NTH Consultants, LTD.
41780 Six Mile Road
Northville, MI 48168

ARI Report # 25-120849
Date Collected: 11/6-11/25
Date Received: 11/17/25
Date Analyzed: 11/20/25
Date Reported: 11/20/25

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 120849 - 206 Cust. #: 27B Material: Mortar Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

APEX Research Inc., 7717 Kensington Ct., Brighton, MI 48116
(734) 449-9990, Fax (734) 449-9991



APPENDIX C

- PAINT CHIP LAB DATA



Certificate of Analysis - Metals in Paint

Method: EPA SW846-7130M, EPA SW846-7420M

Project: Marshall Elementary School

Project #: 25002747-01



Report to:

Mr. Bhushan Modi
NTH Consultants, Ltd
41780 Six Mile Road, Suite 200
Northville, MI 48168

ARL Report #: 25-L28616

Date Sampled: 11/6-11/25

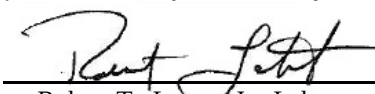
Date Received: 11/17/25

Date Analyzed: 11/20/25

Date Reported: 11/20/25

Laboratory ID:	Client ID:	Reporting Limit:	Cadmium:	Lead:
L28616-01	PC-1	0.01%	Cd - < 0.01%	Pb - 0.48%
	Off-White Metal Pipe / 1960 Custodial Closet			
L28616-02	PC-2	0.01%	Cd - < 0.01%	Pb - 0.02%
	White w/ Off-White below / Room 9 - N. Wall			
L28616-03*	PC-3	0.02%	Cd - < 0.02%	Pb - < 0.02%
	Black Structural Metal / Office 30			
L28616-04	PC-4	0.01%	Cd - < 0.01%	Pb - < 0.01%
	White w/ Red below Metal Door Frame / Room 9			
L28616-05	PC-5	0.01%	Cd - < 0.01%	Pb - < 0.01%
	Light Blue w/ Off-White & Black below Metal Door Frame / 1960 S. Hallway - S. Door			
L28616-06	PC-6	0.01%	Cd - < 0.01%	Pb - < 0.01%
	White Plaster Ceiling / Lobby - W. Side			
L28616-07	PC-7	0.01%	Cd - < 0.01%	Pb - 0.04%
	Gray Concrete Floor / Boiler Room - S. End Landing			
L28616-08*	PC-8	0.03%	Cd - < 0.03%	Pb - < 0.03%
	Red Structural Metal Primer / Room 16 - E. Side			
L28616-09	PC-9	0.01%	Cd - 0.01%	Pb - < 0.01%
	White w/ Off-White below Block Wall / Room 15 - S. Side			
L28616-10*	PC-10	0.02%	Cd - < 0.02%	Pb - 0.47%
	White Metal Pole / Library			
L28616-11	PC-11	0.01%	Cd - < 0.01%	Pb - 4.79%
	White Metal Beam on Gym Roof / Roof - S. Side of Gym			
L28616-12	PC-12	0.01%	Cd - < 0.01%	Pb - 0.77%
	White Metal Exterior Door / W. Side - N. End			

Reporting Limit of 0.01% is based on minimum sample weight of 100mg per our SOP, and may vary based on smaller sample size. APEX Research is not responsible for sample collection activities, and results apply to samples as received. Methods have been slightly modified. Samples received in acceptable condition unless otherwise noted. This certificate of analysis relates only to the samples tested and to ensure the integrity of the results, may only be reproduced in full. Liability limited to cost of analysis. APEX Research, Inc. (Laboratory ID# 227441) is accredited by the AIHA Laboratory Accreditation Programs, LLC (AIHA LAP, LLC) in the Environmental Lead Laboratory Accreditation Program for Lead in Paint as documented by the Scope of Accreditation Certificate and associated Scope. Accreditation extends to lead analyses only. * = APEX Research requires a minimum samples mass of 100mg, total sample was consumed.


Robert T. Letarte Jr., Laboratory Director



APPENDIX D

- POLYCHLORINATED BIPHENYLS LAB
DATA



Analytical Laboratory Report

Report ID: S81361.01(01)
Generated on 12/05/2025

Report to

Attention: Bhushan Modi
NTH Consultants, LTD
41780 Six Mile Road, Suite 200
Northville, MI 48168

Phone: 248-662-2740, 248-640-0465 FAX:
Email: bmodi@nthconsultants.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Lavery (johnlavery@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S81361.01-S81361.07
Project: LPS - Marshall School
Collected Date(s): 11/11/2025
Submitted Date/Time: 11/18/2025 13:35
Sampled by: Harper Purvin
P.O. #: PO

Table of Contents

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Report Narrative (Page 2)
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Method Summary (Page 4)
Sample Summary (Page 5)

Maya Murshak
Technical Director



Analytical Laboratory Report

General Report Notes

Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

When MDL results are provided, then 'Not detected' indicates that parameter was not found at a level equal to or greater than the MDL.

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile, and 2-chloroethylvinyl ether need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Starred (*) analytes are not NY NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Limits for drinking water samples, are listed as the MCL Limits (Maximum Contaminant Level Concentrations)

PFAS requirement: Section 9.3.8 of U.S. EPA Method 537.1 states "If the method analyte(s) found in the Field Sample is present in the FRB at a concentration greater than 1/3 the MRL, then all samples collected with that FRB are invalid and must be recollected and reanalyzed."

Samples submitted without an accompanying FRB may not be acceptable for compliance purposes.

Wisconsin PFAs analysis: MDL = LOD; RL = LOQ. LOD and LOQ are adjusted for dilution.

All accreditations/certifications held by this laboratory are listed on page 3. Not all accreditations/certifications are applicable to this report.

For a specific list of accredited analytes, please feel free to contact the laboratory or visit <https://www.meritlabs.com/certifications>.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Accreditations (For Reference Only)

Authority	Accreditation ID
Michigan DEQ	#9956
DOD ELAP & ISO/IEC 17025:2017	#69699 PJLA Testing
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Pennsylvania DEP	#68-05884
Wisconsin DNR	FID# 399147320

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
o	Associated EIS outside of control limits
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
q	Qualifier ion ratio outside of control limits
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods
LN	Linear
BR	Branched



Analytical Laboratory Report

Method Summary

Method	Version
SW3546	SW 846 Method 3546 Revision 0 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007



Analytical Laboratory Report

Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S81361.01	PCB-1	Solid	11/11/25 10:00
S81361.02	PCB-2	Solid	11/11/25 10:00
S81361.03	PCB-3	Solid	11/11/25 10:00
S81361.04	PCB-4	Solid	11/11/25 10:00
S81361.05	PCB-5	Solid	11/11/25 10:00
S81361.06	PCB-6	Solid	11/11/25 10:00
S81361.07	PCB-7	Solid	11/11/25 10:00



Analytical Laboratory Report

Lab Sample ID: S81361.01

Sample Tag: PCB-1

Collected Date/Time: 11/11/2025 10:00

Matrix: Solid

COC Reference: 174258

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	4.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/25 12:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/26/25 17:31, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	11,000		ug/kg	250	12674-11-2	Y	
PCB-1242	Not detected	11,000		ug/kg	250	53469-21-9	Y	
PCB-1221	Not detected	11,000		ug/kg	250	11104-28-2	Y	
PCB-1232	Not detected	11,000		ug/kg	250	11141-16-5	Y	
PCB-1248	Not detected	11,000		ug/kg	250	12672-29-6	Y	
PCB-1254	21,000	11,000		ug/kg	250	11097-69-1	Y	
PCB-1260	Not detected	11,000		ug/kg	250	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S81361.02
Sample Tag: PCB-2
Collected Date/Time: 11/11/2025 10:00
Matrix: Solid
COC Reference: 174258

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	4.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/25 12:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/26/25 17:45, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	4,500		ug/kg	150	12674-11-2	Y	
PCB-1242	Not detected	4,500		ug/kg	150	53469-21-9	Y	
PCB-1221	Not detected	4,500		ug/kg	150	11104-28-2	Y	
PCB-1232	Not detected	4,500		ug/kg	150	11141-16-5	Y	
PCB-1248	Not detected	4,500		ug/kg	150	12672-29-6	Y	
PCB-1254	27,000	4,500		ug/kg	150	11097-69-1	Y	
PCB-1260	Not detected	4,500		ug/kg	150	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S81361.03
Sample Tag: PCB-3
Collected Date/Time: 11/11/2025 10:00
Matrix: Solid
COC Reference: 174258

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	4.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/25 12:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/28/25 09:12, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	330		ug/kg	10	12674-11-2		
PCB-1242	Not detected	330		ug/kg	10	53469-21-9		
PCB-1221	Not detected	330		ug/kg	10	11104-28-2		
PCB-1232	Not detected	330		ug/kg	10	11141-16-5		
PCB-1248	Not detected	330		ug/kg	10	12672-29-6		
PCB-1254	1,100	330		ug/kg	10	11097-69-1		
PCB-1260	Not detected	330		ug/kg	10	11096-82-5		



Analytical Laboratory Report

Lab Sample ID: S81361.04
Sample Tag: PCB-4
Collected Date/Time: 11/11/2025 10:00
Matrix: Solid
COC Reference: 174258

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	4.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/25 12:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/25 14:49, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	30,000		ug/kg	1500	12674-11-2	Y	
PCB-1242	Not detected	30,000		ug/kg	1500	53469-21-9	Y	
PCB-1221	Not detected	30,000		ug/kg	1500	11104-28-2	Y	
PCB-1232	Not detected	30,000		ug/kg	1500	11141-16-5	Y	
PCB-1248	189,000	30,000		ug/kg	1500	12672-29-6	Y	
PCB-1254	Not detected	30,000		ug/kg	1500	11097-69-1	Y	
PCB-1260	Not detected	30,000		ug/kg	1500	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S81361.05
Sample Tag: PCB-5
Collected Date/Time: 11/11/2025 10:00
Matrix: Solid
COC Reference: 174258

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	4.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/25 12:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/26/25 18:28, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	10,000,000		ug/kg	500000	12674-11-2	Y	
PCB-1242	Not detected	10,000,000		ug/kg	500000	53469-21-9	Y	
PCB-1221	Not detected	10,000,000		ug/kg	500000	11104-28-2	Y	
PCB-1232	Not detected	10,000,000		ug/kg	500000	11141-16-5	Y	
PCB-1248	Not detected	10,000,000		ug/kg	500000	12672-29-6	Y	
PCB-1254	91,000,000	10,000,000		ug/kg	500000	11097-69-1	Y	
PCB-1260	Not detected	10,000,000		ug/kg	500000	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S81361.06
Sample Tag: PCB-6
Collected Date/Time: 11/11/2025 10:00
Matrix: Solid
COC Reference: 174258

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	4.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/25 12:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 11/26/25 18:11, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	1,000,000		ug/kg	50000	12674-11-2	Y	
PCB-1242	Not detected	1,000,000		ug/kg	50000	53469-21-9	Y	
PCB-1221	Not detected	1,000,000		ug/kg	50000	11104-28-2	Y	
PCB-1232	Not detected	1,000,000		ug/kg	50000	11141-16-5	Y	
PCB-1248	Not detected	1,000,000		ug/kg	50000	12672-29-6	Y	
PCB-1254	Not detected	1,000,000		ug/kg	50000	11097-69-1	Y	
PCB-1260	5,000,000	1,000,000		ug/kg	50000	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S81361.07
Sample Tag: PCB-7
Collected Date/Time: 11/11/2025 10:00
Matrix: Solid
COC Reference: 174258

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	Plastic Bag	None	Yes	4.8	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Extraction, PCB*	Completed	SW3546	11/22/25 12:00	DJS	

Organics - PCBs/Pesticides

PCB List, Method: SW8082A, Run Date: 12/05/25 15:17, Analyst: ELR

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags	Limits
PCB-1016	Not detected	10,000,000		ug/kg	500000	12674-11-2	Y	
PCB-1242	Not detected	10,000,000		ug/kg	500000	53469-21-9	Y	
PCB-1221	Not detected	10,000,000		ug/kg	500000	11104-28-2	Y	
PCB-1232	Not detected	10,000,000		ug/kg	500000	11141-16-5	Y	
PCB-1248	Not detected	10,000,000		ug/kg	500000	12672-29-6	Y	
PCB-1254	49,300,000	10,000,000		ug/kg	500000	11097-69-1	Y	
PCB-1260	Not detected	10,000,000		ug/kg	500000	11096-82-5	Y	

Y-Elevated reporting limit due to high target concentration

Merit Laboratories Login Checklist

Lab Set ID:S81361

Client:NTH (NTH Consultants, LTD)

Project: LPS - Marshall School

Submitted: 11/18/2025 13:35 Login User: MMC

Attention: Bhushan Modi

Address: NTH Consultants, LTD
41780 Six Mile Road, Suite 200
Northville, MI 48168

Phone: 248-662-2740, FAX:

Email: bmodi@nthconsultants.com

Selection	Description	Note
Sample Receiving		
01. ☒ Yes ☐ No ☐ N/A	Samples are received at 4C +/- 2C Thermometer #	IR 4.8
02. ☒ Yes ☐ No ☐ N/A	Received on ice/ cooling process begun	
03. ☐ Yes ☒ No ☐ N/A	Samples shipped	
04. ☐ Yes ☒ No ☐ N/A	Samples left in 24 hr. drop box	
05. ☐ Yes ☐ No ☒ N/A	Are there custody seals/tape or is the drop box locked	
Chain of Custody		
06. ☒ Yes ☐ No ☐ N/A	COC adequately filled out	
07. ☒ Yes ☐ No ☐ N/A	COC signed and relinquished to the lab	
08. ☒ Yes ☐ No ☐ N/A	Sample tag on bottles match COC	
09. ☐ Yes ☒ No ☐ N/A	Subcontracting needed? Subcontacted to:	
Preservation		
10. ☒ Yes ☐ No ☐ N/A	Do sample have correct chemical preservation	
11. ☐ Yes ☐ No ☒ N/A	Completed pH checks on preserved samples? (no VOAs)	
12. ☐ Yes ☒ No ☐ N/A	Did any samples need to be preserved in the lab?	
Bottle Conditions		
13. ☒ Yes ☐ No ☐ N/A	All bottles intact	
14. ☒ Yes ☐ No ☐ N/A	Appropriate analytical bottles are used	
15. ☒ Yes ☐ No ☐ N/A	Merit bottles used	
16. ☒ Yes ☐ No ☐ N/A	Sufficient sample volume received	
17. ☐ Yes ☒ No ☐ N/A	Samples require laboratory filtration	
18. ☒ Yes ☐ No ☐ N/A	Samples submitted within holding time	
19. ☐ Yes ☐ No ☒ N/A	Do water VOC, TOX, DO or Alkalinity bottles contain	

Corrective action for all exceptions is to call the client and to notify the project manager.

Client Review By: _____ Date: _____

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com



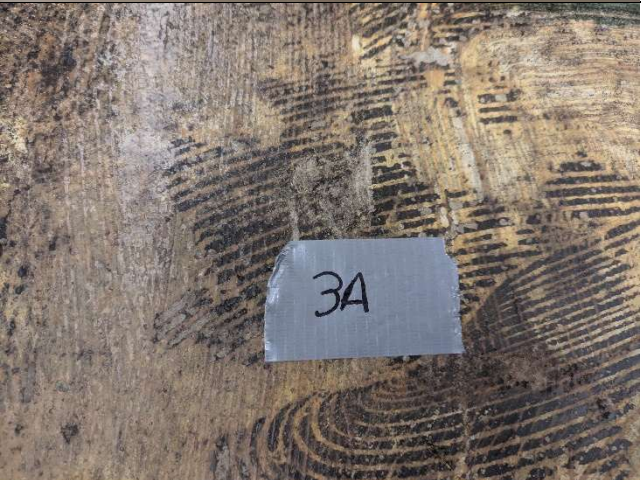
APPENDIX E

- ASBESTOS SAMPLES PHOTOGRAPHS

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
1A	2'x4' Ceiling Tile with dugouts and pinholes	South Corridor, near Room 10	None Detected		
1B		Room 12, SW Corner	None Detected		
2A	Transite Panel	Room 9, at office	10% Chrysotile		

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
2B		Room 11, at office	Not Analyzed	
3A	Floor Mastic	Room 9, west wall under carpet	None Detected	
3B		Room 10, west wall under carpet	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
4A	Gray Floor Leveler Under Pergo	Room 10, south wall at drinking fountain	None Detected		
4B		Room 11, middle	None Detected		
4C		Room 18, middle	None Detected		

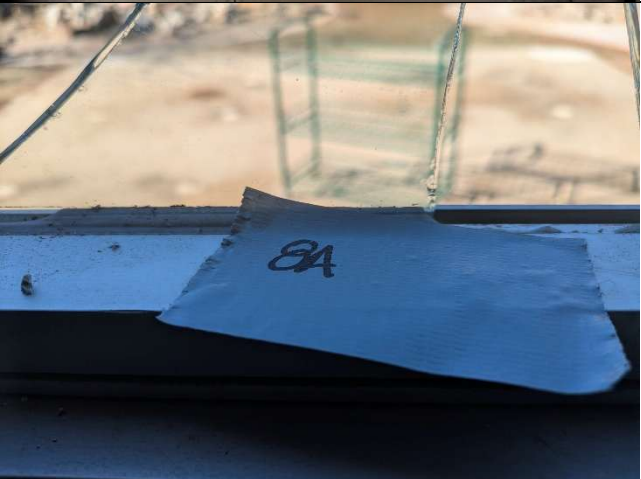
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
5A	Mirror or bulletin board glue pod	Room 9, North wall near boys' bathroom	None Detected	
5B		Room 12, west wall at sink area	None Detected	
6A	Fiberglass insulation	Room 10, South side at sink area	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
6B		South corridor chase, south end	None Detected	
6C		Storage room across from Office 30	None Detected	
7A	Fittings associated with HA 6	Custodial closet between 9 and 10	None Detected	No Photo

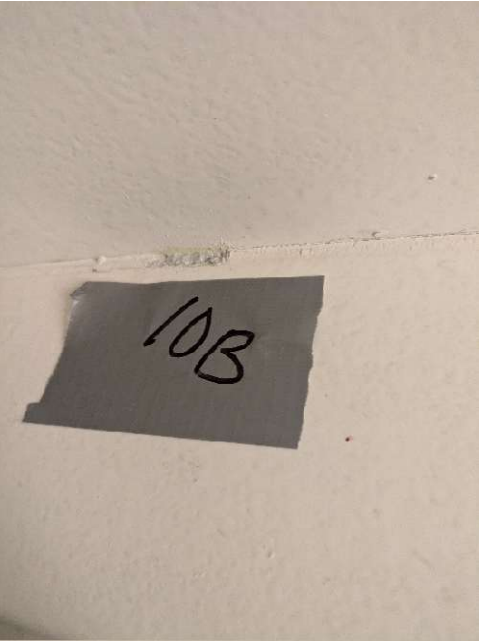
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
7B		Room 12, near bathrooms	None Detected	
7C		Storage room across from Office 30	None Detected	
8A	Interior window glaze	Room 9, west side	None Detected	

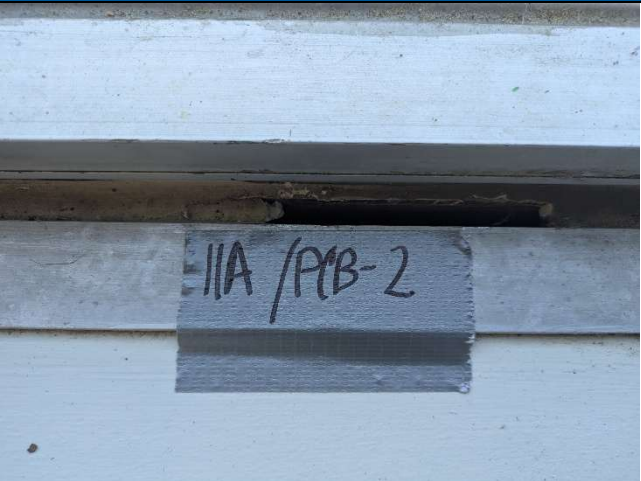
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
8B		Room 7, east side	None Detected	
8C		Room 16, east side	None Detected	
9A	Thin white window glaze	Room 10, west side	None Detected	

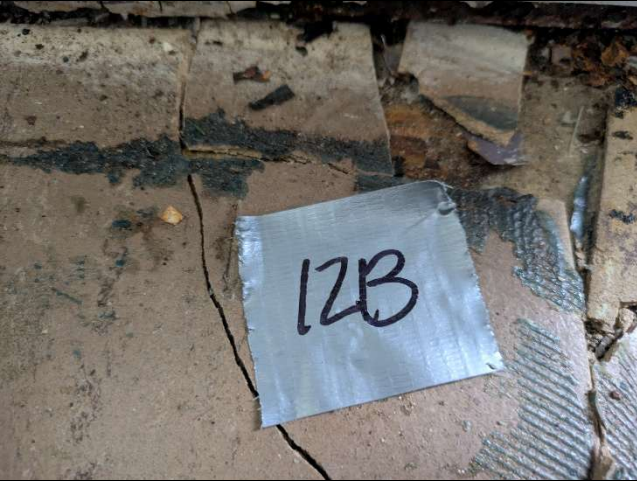
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
9B		Room 6, east side	None Detected	
10A	Caulking around transite and interior windows	Office between 9 and 10	None Detected	
10B		Office between 9 and 10	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
11A	Glazing at base of windows	Room 9, west side	None Detected	
11B		Room 11, west side	None Detected	
12A	9"x9" brown floor tile	South corridor near ext. doors	Tile: 10% Chrysotile Mastic: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
12B		N-S corridor across from Work Room	Tile: Not Analyzed Mastic: None Detected	
13A	White Floor Leveler	South corridor near ext. doors	None Detected	
13B		South corridor at threshold to Room 12	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
13C		Middle corridor at connector to 1962	None Detected	
14A	Roof drain pipe insulation (with black and foil wrap)	Room 10, NE	None Detected	
14B		Room 7, NW	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
14C	Roof drain pipe insulation	Room 7, NW	None Detected		
15A		Room 10, NE	None Detected		
15B		Room 7, NW	None Detected		

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
15C		Room 7, NW	None Detected	
16A	Black cove base and adhesive	Room 9	None Detected	
16B		Room 12	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
17A	Window caulk around interior windows – hallway side	Hallway at Room 9, south end	1.25% Chrysotile (Point Count Result)	
17B		N-S corridor at kitchen, north end	Not Analyzed	
18A	12"x12" white floor tile with rainbow markings	Room 10, south wall at sink area	Tile: None Detected Mastic: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
18B	Plaster	Room 10, south wall at sink area	Tile: None Detected Mastic: None Detected	
19A		Boys' bathroom between Rooms 9 and 10	Finish Coat: None Detected Base Coat: None Detected	
19B		Boys' bathroom between Room 7 and 8	Finish Coat: None Detected Base Coat: None Detected	No Photo

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
19C		Boys' bathroom between Room 7 and 8	Finish Coat: None Detected Base Coat: None Detected	No Photo
19D		Room 3, lower ceiling at entrance	Finish Coat: None Detected Base Coat: None Detected	
19E		Room 4, lower ceiling – north side	Finish Coat: None Detected Base Coat: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
19F		Lobby	Finish Coat: None Detected Base Coat: None Detected		
19G		Lobby, boys' bathroom	Finish Coat: None Detected Base Coat: None Detected		
20A		Room 10, south wall at sink area	None Detected		

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
20B		Room 12, west wall at sink area	None Detected	
20C		Custodial closet at south end of N-S Hallway	None Detected	
21A	Drywall	Room 12, upper northeast wall	None Detected	

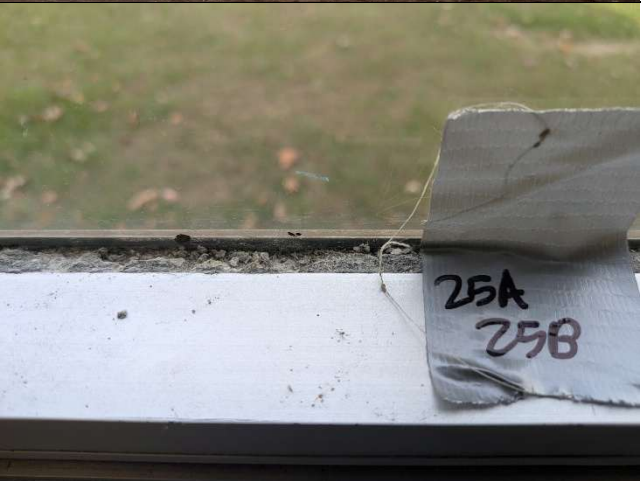
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
21B		Room 12, upper northeast wall	None Detected	
22A	Beiger mottle floor tile	At threshold to Room 12	Tile: None Detected Mastic: None Detected	
22B		At threshold to Room 12	Tile: None Detected Mastic: None Detected	

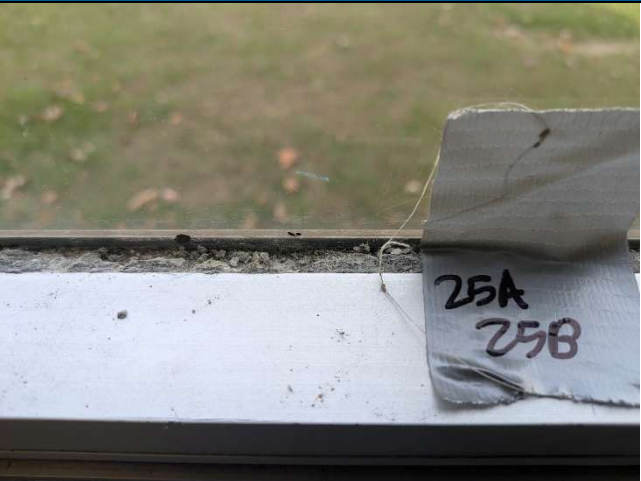
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
22C	White sink caulking	Room 19, middle (under HA 19)	Tile: None Detected Mastic: None Detected	
23A		Room 12, west wall	None Detected	
23B		Room 9, north side	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
24A	9"x9" gray floor tile	Room 8, east wall	Glue: None Detected Tile: 10% Chrysotile Mastic: None Detected	
24B		Room 7, west side	Glue: None Detected Tile: Not Analyzed Mastic: None Detected	
25A	Window glazing, hard (under HA 8)	Room 7, east side	1.5% Chrysotile (Point Count Result)	

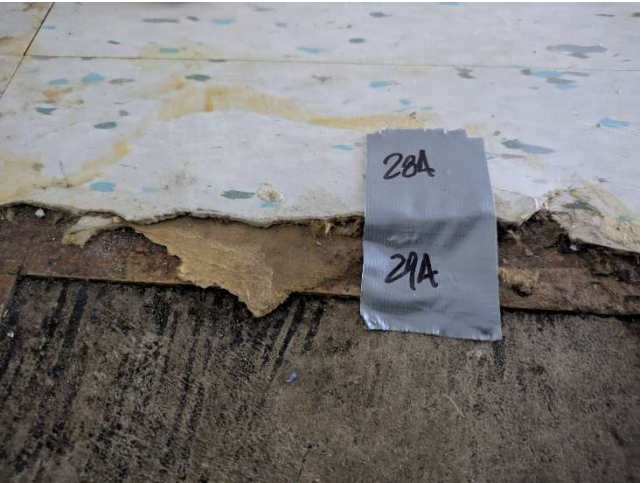
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
25B		Room 7, east side	Not Analyzed	
26A	12"x12" blue mottle floor tile	Custodial closet at south end of N-S corridor	Tile: None Detected Mastic: None Detected	No Photo
26B		Custodial closet at south end of N-S corridor	Tile: None Detected Mastic: None Detected	No Photo

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
27A	Packing at base of sanitary drain	Custodial closet in south corridor	None Detected	
27B		Custodial closet in south corridor	None Detected	
28A	12"x12" white floor tile with pastel markings	Storage room across from Office 29	Tile: None Detected Glue: None Detected	

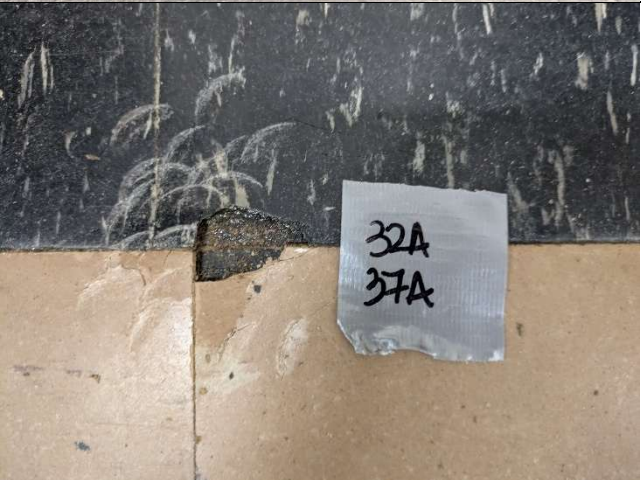
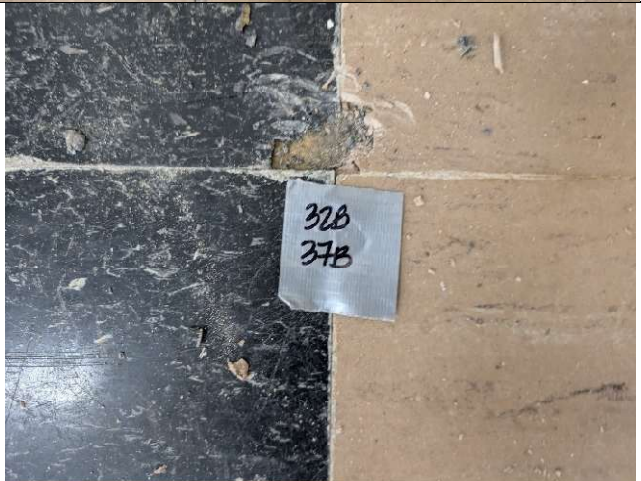
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
28B		Kitchen at east door	Tile: None Detected Glue: None Detected	No Photo
29A	Paper under HA 28 and over HA 12	Storage room across from Office 29	None Detected	
29B		Storage room across from Office 29	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
30A	White filler under HA 28	Kitchen at east door	Mastic: None Detected Filler: None Detected Mastic: None Detected	No Photo
30B		Kitchen at east door	Mastic: None Detected Filler: None Detected Mastic: None Detected	No Photo
31A	Tan chalkboard caulk	Room 5, north wall	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
31B		Room 25, north wall	None Detected	
32A	9"x9" tan floor tile	Gym, north side, middle	Tile: 1.5% (Point Count Result) Mastic: None Detected	
32B		Gym, SW at drinking fountain	Tile: Not Analyzed Mastic: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
33A	9"x9" light gray floor tile	Gym, NE at shuffleboard	Tile: 2.75% (Point Count Result) Mastic: None Detected	
33B		Gym, SW at shuffleboard	Tile: Not Analyzed Mastic: None Detected	
34A	Red shuffleboard tile	Gym, NE at shuffleboard	Tile: 3.5% (Point Count Result) Mastic: None Detected	

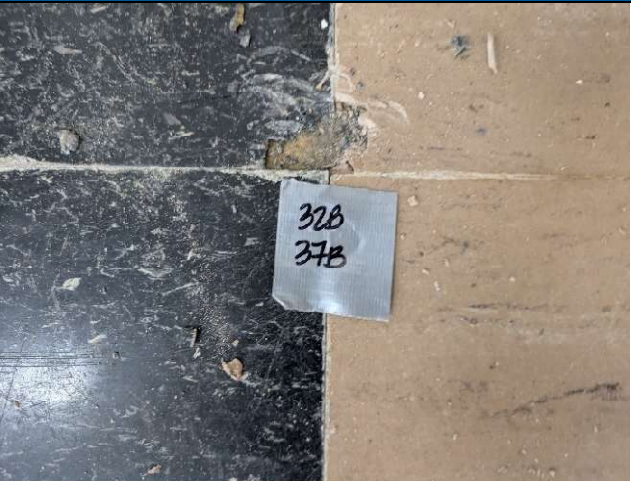
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
34B	White shuffleboard trim tile	Gym, SW at shuffleboard	Tile: Not Analyzed Mastic: None Detected	
35A		Gym, NE at shuffleboard	Tile: 10% Chrysotile Mastic: None Detected	
35B		Gym, SW at shuffleboard	Tile: Not Analyzed Mastic: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
36A	Blue speckled replacement tile	Gym, Middle	Tile: None Detected Mastic: None Detected		
36B		Gym, Middle	Tile: None Detected Mastic: None Detected		
37A	Black Floor Tile	Gym, north side, middle	Tile: None Detected Mastic: None Detected		

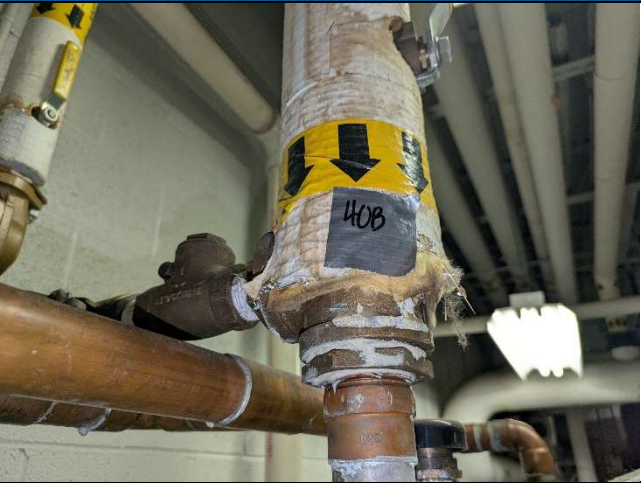
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
37B		Gym, SW at drinking fountain	Tile: None Detected Mastic: None Detected	
38A	Red replacement tile	Gym, Middle	Tile: None Detected Mastic: None Detected	
38B		Gym, Middle	Tile: None Detected Mastic: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
39A	Black trim floor tile	Gym, Middle	Tile: 3.0% (Point Count Result) Mastic: None Detected	
39B		Gym, NE at shuffleboard	Tile: Not Analyzed Mastic: None Detected	
40A	New fiberglass pipe insulation	Fan Room	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
40B		Boiler Room, SW	None Detected	
40C		Boiler Room, SE	None Detected	
NA (HA-41)	White canvas vibration dampener	Fan Room	Assumed ACM	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
42A	Incinerator-chimney door gasket	Boiler Room, SW, lower door	50% Chrysotile	
42B		Boiler Room, SW, lower door	Not Analyzed	
43A	Yellow interior chimney tile	Boiler Room, SW	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
43B		Boiler Room, SW	None Detected		
44A	Chimney masonry block	Boiler Room, SW	None Detected		
44B		Boiler Room, SW	None Detected		

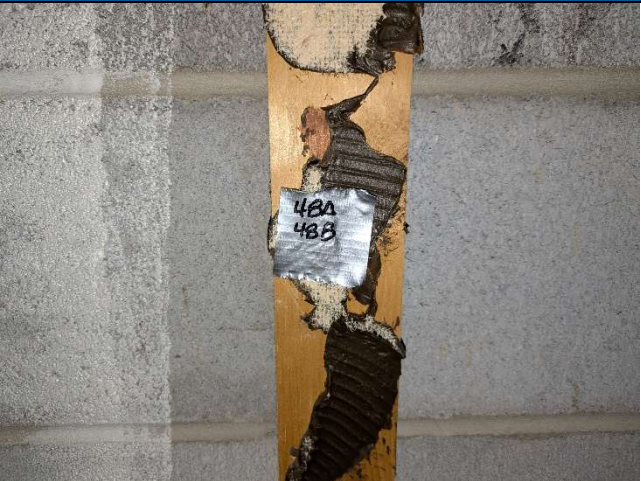
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
45A	Chimney brick	Boiler Room, SW	None Detected		
45B		Boiler Room, SW	None Detected		
46A	Wall sealant, between brick & block	Middle hallway, east end of 1960 wing	None Detected		

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
46B		Middle hallway, east end of 1960 wing	None Detected	No Photo
47A	Door caulk	Room 2, east exterior door	1.5% Chrysotile (Point Count Result)	
47B		Room 1, east exterior door	Not Analyzed	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
48A	Dark brown glue pods for canvas boards	Room 4, east wall	None Detected		
48B		Room 4, east wall	None Detected		
49A	White sink undercoating	Room 2, north side	1.5% Chrysotile (Point Count Result)		

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
49B		Room 2, north side	Not Analyzed	
50A	Circular light heat shield	Room 4, boys' bathroom	60% Chrysotile	
50B		Room 4, boys' bathroom	Not Analyzed	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
51A	Black sink undercoating	Kitchen	None Detected	
51B		Kitchen	None Detected	
52A	2'x2' gypsum ceiling tile	Kitchen	None Detected	

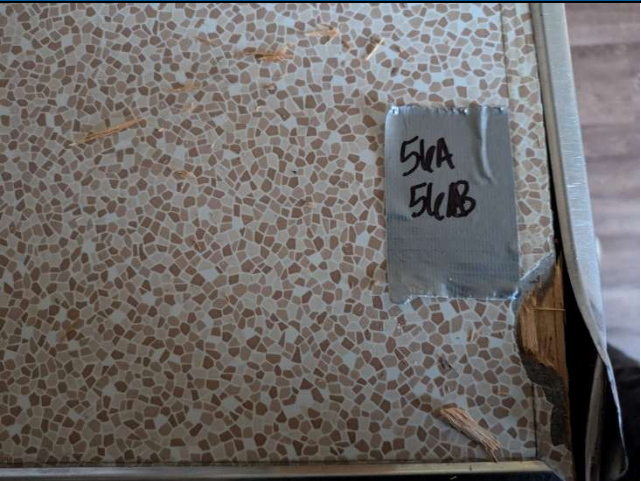
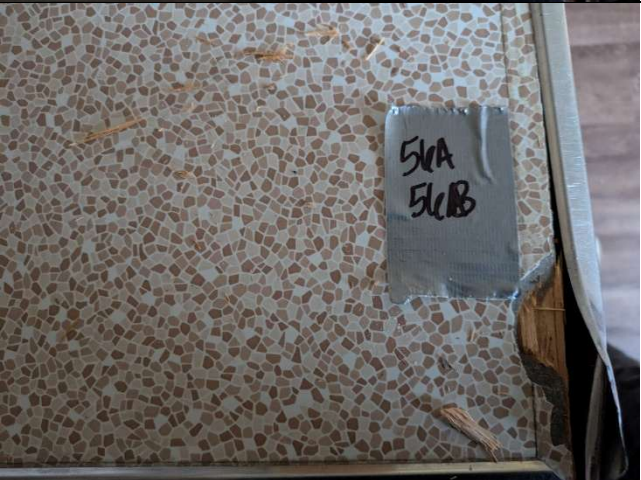
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
52B		Kitchen	None Detected	
53A	Gray duct sealant	Kitchen, middle	None Detected	
53B		Library, west end	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
Not Sampled (HA-54)	Black vibration gasket on duct wall	Not sampled	Assumed ACM	No Photo
55A	Light pink sink undercoating	Office Clinic	1.75% Chrysotile (Point Count Result)	
55B		Office Clinic	Not Analyzed	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
56A	Brown pebble pattern countertop	Office Clinic	Countertop: None Detected Glue: None Detected	
56B		Office Clinic	Countertop: None Detected Glue: None Detected	
57A	Exposed pipe insulation	Receiving Room at heater	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
57B		Room 1 Closet, purple line	None Detected	
57C		Room 1 Closet, green line	None Detected	
58A	Exposed pipe fitting	Receiving Room at heater	None Detected	

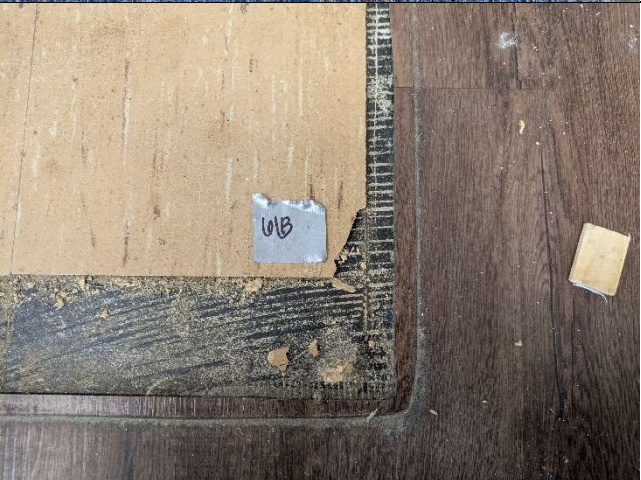
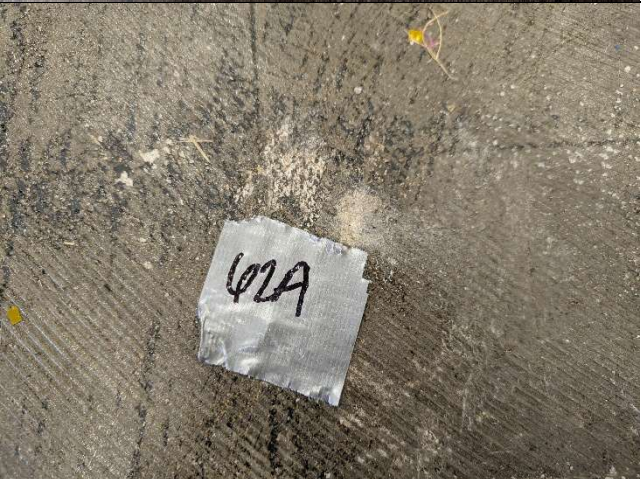
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
58B		Room 1 Closet, green line	None Detected	
58C		Room 1 Closet, purple line	None Detected	
59A	Lightweight concrete between upper block wall & metal ceiling	Receiving Room, West side	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
59B		Receiving Room, West side	None Detected	
60A	Door caulk	Room 1, above east door	2.75% Chrysotile (Point Count Result)	
60B		Room 2, above east door	Not Analyzed	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
61A	9"x9" tan floor tile with brown markings	Corridor between 1960 and 1962 wings	Tile: 10% Chrysotile Mastic: None Detected	
61B		Room 20, east side	Tile: Not Analyzed Mastic: None Detected	
62A	Mastic under pergo floor	Room 20, middle	None Detected	

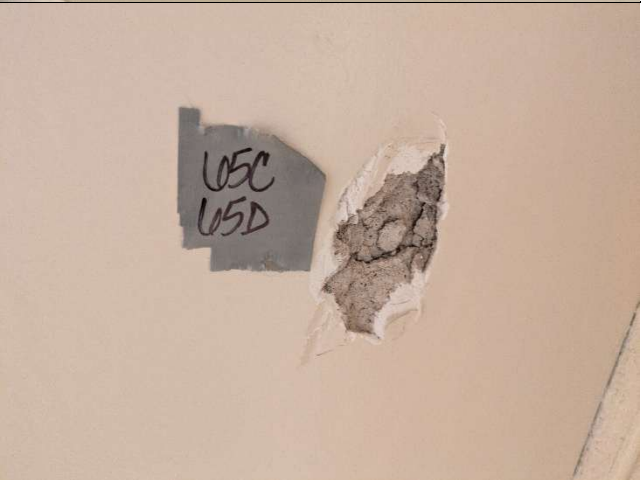
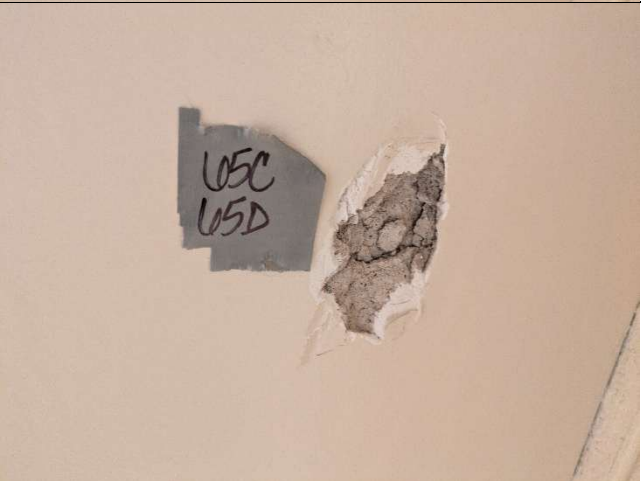
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
62B	Window glazing, thin	Room 13, middle	None Detected	
63A		Room 20, west side	None Detected	
63B		Room 14, north side	None Detected	No Photo

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
64A	Window caulking, interior	Room 20, west side	1.75% Chrysotile (Point Count Result)	
64B		Room 16, east side	Not Analyzed	No Photo
65A	Plaster	Room 20, boys' bathroom	Finish Coat: None Detected Base Coat: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
65B		Room 16, boys' bathroom	Finish Coat: None Detected Base Coat: None Detected	
65C		Custodial closet	Finish Coat: None Detected Base Coat: None Detected	
65D		Custodial closet	Finish Coat: None Detected Base Coat: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
65E		Room 13, girls' bathroom	Finish Coat: None Detected Base Coat: None Detected	
66A	9"x9" gray floor tile with black markings	Room 18, NE corner	Tile: 10% Chrysotile Mastic: None Detected	
66B		Room 14, east side	Tile: Not Analyzed Mastic: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples					
Sample ID	Material Description	Sample Location	Asbestos Result	Photo	
67A	Masonry block	Room 19, closet	None Detected		
67B		South Hallway, chase at south door	None Detected		
68A	Block mortar	Room 19 closet	None Detected		

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
68B	Pergo floor	South Hallway, chase at south door	None Detected	
69A		Room 15, middle	None Detected	
69B		Room 16, south side	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
70A	Fiberglass pipe insulation with black and foil wrap	Corridor between 1960 & 1962 wings	None Detected	
70B		Room 13	None Detected	
70C		Room 16, NE	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
71A	Fittings associated with HA 70	Room 13	None Detected	
71B		Room 15, NE	None Detected	No Photo
71C		Room 15, NE	None Detected	No Photo

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
72A	Fiberglass pipe insulation	Corridor outside of Room 20	None Detected	
72B		Room 20, SW	None Detected	
72C		Room 20, SE	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
73A	Fittings associated with HA 72	Room 20, north of baths	None Detected	
73B		Room 20, SE	None Detected	
73C		Room 18, SE	None Detected	

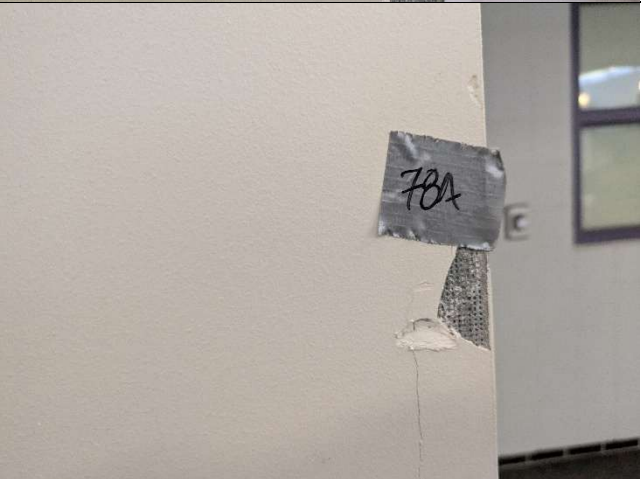
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
74A	Coating of roof vent	1962, corridor, middle	10% Chrysotile	
74B		1962, corridor, middle	Not Analyzed	
75A	2'x2' ceiling tile, textured	Room 25, west side	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
75B		Library, west side	None Detected	
76A	Brown glue pods under soundproofing panels	Library, south side	None Detected	
76B		Library, south side	None Detected	

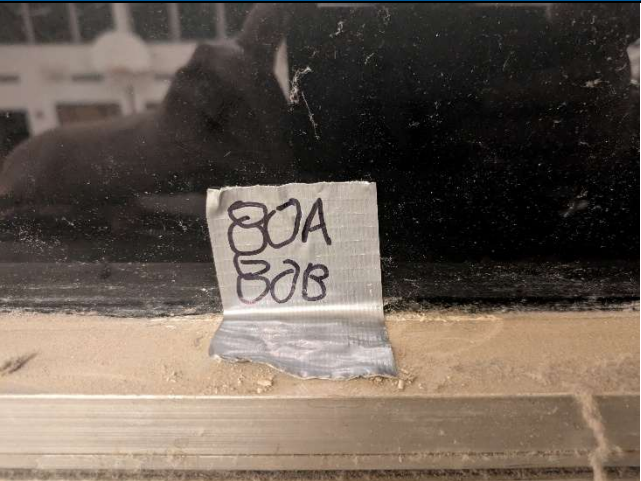
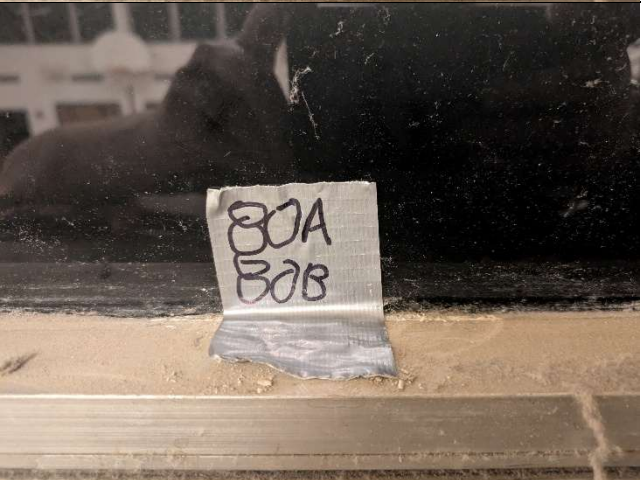
Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
77A	Drywall	Library, south side	None Detected	
77B		Library, east side	None Detected	
78A	Joint Compound	Library, south side	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
78B		Library, east side	None Detected	
79A	Light gray floor leveler	Library, east side	None Detected	
79B		Library, east side	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
80A	Gymnasium window glazing	Gym, north side	None Detected	
80B		Gym, north side	None Detected	
81A	Drywall and paper	Rooftop Mechanical Room, east side	Drywall & Paper: None Detected Tape: None Detected Mud: None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
81B		Rooftop Mechanical Room, east side	Drywall & Paper: None Detected Tape: None Detected Mud: None Detected	
82A	White sealant around gym windows	Roof, south side of gym	None Detected	
82B		Roof, south side of gym	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
83A	Roofing materials	1960 wing, NW	Roofing Materials: None Detected Foam: None Detected Cloth: None Detected Tar: None Detected	No Photo
83B		1962 wing, west side	Roofing Materials: None Detected Foam: None Detected Cloth: None Detected Tar: None Detected	No Photo
84A	Sealant between membrane and upper gym wall	Roof, west side of gym	None Detected	No Photo

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
84B		Roof, west side of gym	None Detected	No Photo
85A	Gray expansion joint	Near main entrance	None Detected	
85B		North side of Room 11	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
86A	Gray exterior window caulking	North side, west of entrance	None Detected	
86B		Exterior of Room 12	None Detected	
87A	Door and window caulk at connectors	West side of 1960 connector	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
87B		West side of 1960 connector	None Detected	No Photo
88A	White door caulk	Exterior of Room 7	None Detected	
88B		Exterior of Room 7	None Detected	No Photo

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
89A	White exterior window caulk (1992)	Library, south	None Detected	
89B		Library, east	None Detected	
90A	Light gray exterior expansion joint	Library, south	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
90B		Library, south	None Detected	
91A	Gray exterior window caulk	Room 20	None Detected	
91B		Room 20	None Detected	

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
92A	Black exterior mastic	Exterior of Room 19, south side	None Detected	No Photo
92B		Exterior of Room 19, south side	None Detected	No Photo
93A	Gray Caulk with old below	N-S corridor at windows across from Work Room	None Detected	No Photo

Site Photographs – ACM Samples
Former Marshall Elementary School – Hazardous Materials Survey

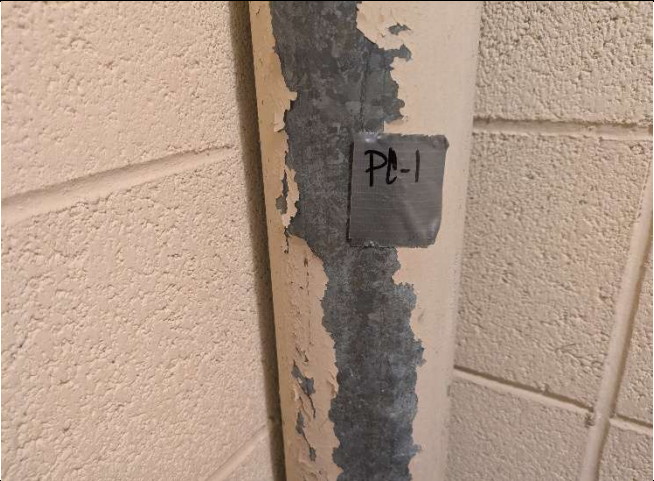
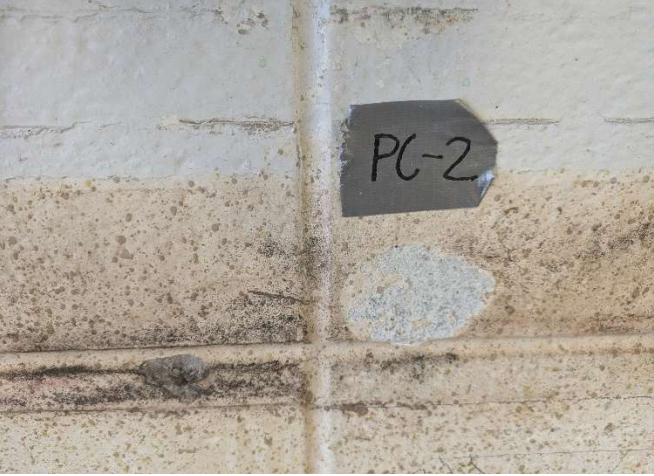
Asbestos Samples				
Sample ID	Material Description	Sample Location	Asbestos Result	Photo
93B		N-S corridor at windows across from Work Room	None Detected	No Photo
Not Sampled (HA-94)	Fire doors	Not sampled	Assumed	No photo
Not Sampled (HA-95)	Switchgear components	Not sampled	Assumed	



APPENDIX F

- PAINT CHIP SAMPLES
PHOTOGRAPHS

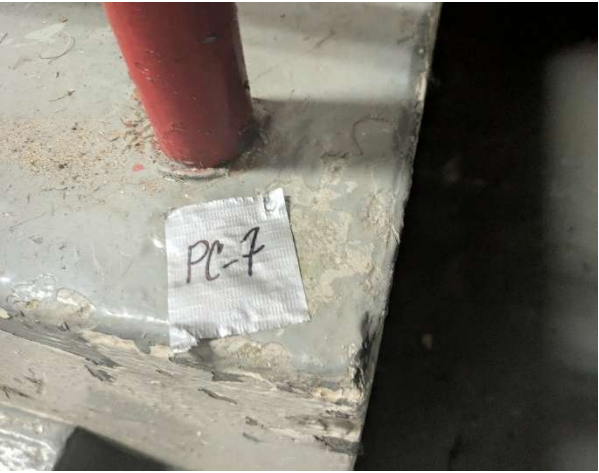
Site Photographs – Paint Chip Samples
Former Marshall Elementary School - Hazardous Materials Survey

Paint Chip Samples						
Sample ID	Material Description	Sample Location	Cadmium %	Lead (%)	Photo	
PC-1	Off-White Metal Pipe	1960 Custodial Closet	<0.01	0.48		
PC-2	White with Off-White below	Room 9, North Wall	<0.01	0.02		
PC-3	Black Structural Metal	Office 30	<0.02	<0.02		

Site Photographs – Paint Chip Samples
Former Marshall Elementary School - Hazardous Materials Survey

Paint Chip Samples						
Sample ID	Material Description	Sample Location	Cadmium %	Lead (%)	Photo	
PC-4	White with Red below Metal Door Frame	Room 9	<0.01	<0.01		
PC-5	Light Blue with Off-White and Black below Metal Door Frame	1960 South Hallway, South Door	<0.01	<0.01		
PC-6	White Plaster Ceiling	Lobby, West Side	<0.01	<0.01		

Site Photographs – Paint Chip Samples
Former Marshall Elementary School - Hazardous Materials Survey

Paint Chip Samples						
Sample ID	Material Description	Sample Location	Cadmium %	Lead (%)	Photo	
PC-7	Gray Concrete Floor	Boiler Room, South End Landing	<0.01	0.04		
PC-8	Red Structural Metal Primer	Room 16, East Side	<0.03	<0.03		
PC-9	White with Off-White below Block Wall	Room 15, South Side	0.01	<0.01		

Site Photographs – Paint Chip Samples
Former Marshall Elementary School - Hazardous Materials Survey

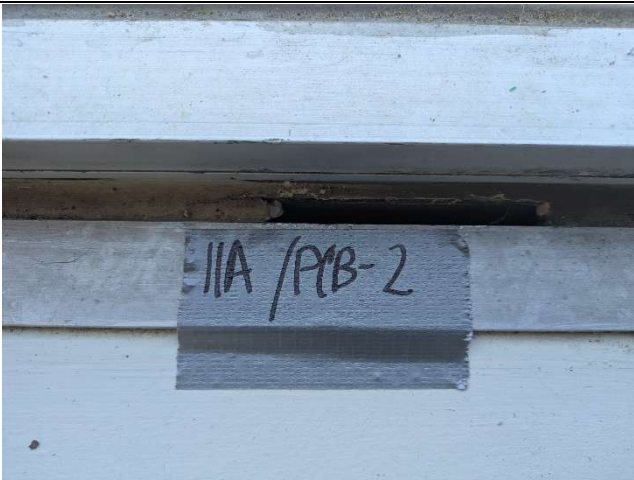
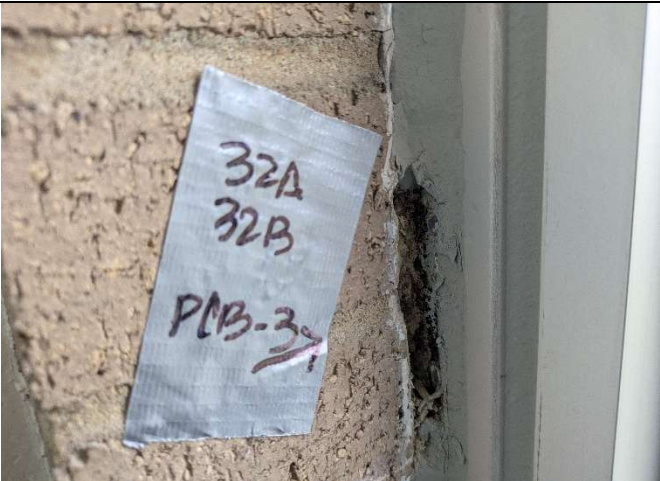
Paint Chip Samples						
Sample ID	Material Description	Sample Location	Cadmium %	Lead (%)	Photo	
PC-10	White Metal Pole	Library	<0.02	0.47		
PC-11	White Metal Beam on Gym Roof	Roof, South Side of Gym	<0.01	4.79		
PC-12	White Metal Exterior Door	West Side, North End	<0.01	0.77		



APPENDIX G

- PCB SAMPLES PHOTOGRAPHS

Site Photographs – PCB Samples
Former Marshall Elementary School - Hazardous Materials Survey

PCB Samples			
Sample ID	Material Description	Sample Location	Photo
PCB-1	Interior Window Glaze	Room 9, West Side (Same location as asbestos sample 8A)	
PCB-2	Glazing at Base of Windows	Room 9, West Side	
PCB-3	Gray Interior Door Caulk	Main N-S Hallway at Double Doors & Windows	

Site Photographs – PCB Samples
Former Marshall Elementary School - Hazardous Materials Survey

PCB Samples			
Sample ID	Material Description	Sample Location	Photo
PCB-4	Interior Window Caulking	Room 20, West Side	 A photograph showing the interior of a room with a window. A black tag with white text "04A" and "PCB-4" is attached to the window frame. The window is partially open, showing a view of the outside.
PCB-5	Gray Exterior Expansion Joint	Room 11, North Side	 A photograph showing a gray exterior expansion joint on a wall. A black tag with white text "02B" and "PCB-5" is attached to the joint.
PCB-6	Gray Exterior Window Caulk	Room 6	 A photograph showing a gray exterior window caulk on a brick wall. A black tag with white text "PCB-6" is attached to the caulk.

Site Photographs – PCB Samples
Former Marshall Elementary School - Hazardous Materials Survey

PCB Samples			
Sample ID	Material Description	Sample Location	Photo
PCB-7	Gray Exterior Window Caulk	Room 20	