1.0 EXECUTIVE SUMMARY

BBS Architects, Landscape Architects and Engineers, P.C., retained Enviroscience Consultants, Inc., to conduct an asbestos and lead-based paint survey of the Schumacher House located in Clinton G. Martin Park, New Hyde Park, New York. The purpose of this survey was to identify and quantify accessible asbestos containing materials (ACM), PCB caulking, and lead painted surfaces prior to restoration of the building. This survey was limited to accessible interior and exterior areas of the building. The structural integrity of the building in several areas is questionable. Accessible roofs were sampled in this survey. Included in this report are Bulk Sample Results and an Inventory of Asbestos Containing Materials listing the quantity and location of identified ACM.

The inspection was limited to system components and areas of the building that were accessible at the time of inspection. All accessible areas were inspected. Exploratory demolition into walls and pipe/duct chases was not performed. The following materials have been identified or assumed as ACM. Reference appendix E for specific locations; quantities are approximate:

Material	Location	Quantity
9" x 9" Green Floor Tile & Mastic	1st Floor Parlor	200 Square Feet
1' x 1' Ceiling Tile Glue Daub	1st Floor Parlor	200 Square Feet
Exterior Window Caulk	Window	49 Windows

There may be pipe and fitting insulation, and waterproofing materials located in the ground that were not accessible at the time of inspection. Asbestos-containing materials may only be removed or disturbed by a certified and licensed asbestos abatement contractor. Air monitoring for asbestos abatement projects by an independent air-monitoring firm is required.

The following materials were found via microscopic analyses to be non-asbestos containing:

Ceiling & Wall Plasters - Scratch & Finish Coats
1' x 1' Ceiling Tiles (must be treated as ACM because of glue daubs)
Interior & Exterior Vapor Barriers (Wall & Roof)
Vibration Damper Cloth

An X-ray Fluorescence analyzer was used to test surfaces and components for lead. *The majority of the interior and exterior surfaces were identified with lead based paint levels above*

the HUD Guideline definition of greater than 1.0 milligram per centimeter squared (mg/cm^2). The lead-based paint survey is in Section 3.

2.0 ASBESTOS SURVEY

2.1 Asbestos Survey Procedures

The asbestos survey was designed to meet all requirements specified in the *NYS Asbestos Code Rule, 12 NYCRR Part 56, Subpart 56-5.1 Asbestos Survey Requirements for Building/Structure Demolition, Renovation, Remodeling and Repair*. A New York State certified asbestos inspector conducted the asbestos inspection. Enviroscience Consultants, Inc. a New York State Department of Health Environmental Laboratory Approval Program accredited laboratory, performed sample analysis.

New York State requires that the asbestos survey information be transmitted by the building owner as follows:

1. One copy of the completed asbestos survey shall be sent by the owner or their agent to the local government entity charged with issuing a permit for such demolition, renovation, remodeling or repair work under applicable State or local laws.
2. The completed asbestos survey for controlled demolition or pre-demolition asbestos projects shall also be submitted to the appropriate Asbestos Control Bureau district office.
3. The completed asbestos survey shall be kept on the construction site with the asbestos notification and variance, if required, throughout the duration of the asbestos project and any associated demolition, renovation, remodeling or repair project.

Enviroscience performed a site investigation of the building that included a visual inspection of all accessible areas. Material systems were assigned into groups of homogeneous materials. A homogeneous material is defined as a material that is alike in color and texture that was installed at the same time. Samples were then collected from each homogeneous area according to USEPA AHERA requirements. Based upon sample results, each sampled homogeneous area was classified as either asbestos or non-asbestos containing. An asbestos containing material is defined by the USEPA as a material containing greater than one percent asbestos by weight.

Edik Ivans, a NYS certified Asbestos Inspector, conducted the inspection. Certifications are provided in appendix D. Asbestos-containing materials are noted above in the Executive Summary. Also reference the Asbestos Bulk Sample Results, Enviroscience chain of custody number 9872 in Appendix A.

The only materials identified as asbestos containing inside the building were the 9" x 9" floor tiles and mastic in the Parlor Room on the first floor and the glue daubs on the 1' x 1' ceiling tiles in the same room. The ceiling tiles will also have to be treated as ACM because they cannot be separated from the glue daubs. There is approximately 200 square feet of each material present.

On the exterior of the building, the exterior window caulking was identified as ACM. There are approximately 49 openings present in the building

Any asbestos containing materials that will be disturbed during renovation or demolition must be removed by a NYS certified and licensed asbestos abatement contractor. Air monitoring is not required for exterior non-friable asbestos projects, although a visual inspection by a NYS DOL certified asbestos project monitor is required at the completion of removal. Interior removal projects require air monitoring.

The following materials have been classified as non-asbestos containing and may be removed or disturbed as regular construction materials:

Ceiling & Wall Plasters Scratch & Finish Coats
Interior & Exterior Vapor Barriers (Wall & Roof)
Vibration Damper Cloth

Refer to the Bulk Sample Results report (chain of custody 9872), for detailed sample information and ACM locations.

2.2 Asbestos Sampling Procedures

Samples of suspect asbestos materials were collected in accordance with United States Environmental Protection Agency guidelines as outlined below. These sampling procedures were implemented in an effort to minimize the release of asbestos fibers during sampling and to provide control of samples through analysis and reporting.

Samples were collected in unoccupied areas.

A half-face respirator may be worn during bulk sample collection.

Surfaces of the material to be sampled were wetted with water mist prior to collection.

Samples were collected with a cork borer, knife, or other approved sampling tool.

Sampling tools were decontaminated between each sample.

Individual sealable containers were used to contain each of the collected samples. Samples were double-bagged for transportation to the laboratory.

Sample containers were labeled with a date and unique sample ID number using a permanent marker.

At the completion of sampling activities, bulk samples were transported and relinquished to the laboratory for analysis. Enviroscience Consultants, Inc. is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP #11681) accredited environmental testing laboratory.

All asbestos bulk samples were analyzed by Polarized Light Microscopy (PLM). Samples of non-friable organically bound (NOB) materials such as floor tiles and roofing materials that were found to contain less than 1% asbestos by PLM were then analyzed using Transmission Electron Microscopy (TEM). According to the Department of Health, NOB materials may first be analyzed by PLM. If asbestos is not found using polarized light microscopy, the NOB sample must be analyzed with the higher-powered transmission electron microscope.

3.0 LEAD-BASED PAINT SURVEY

Enviroscience Consultants Inc. conducted a Lead-based Paint Inspection of surfaces and components that may be disturbed by renovation or demolition. An EPA certified lead inspector/risk assessor used an X-ray Fluorescence (XRF) analyzer to inspect the building in accordance with the New York State Education Department requirements and the US Housing and Urban Development Agency Guidelines for the Evaluation and Control of Lead-based Paint in Housing, Chapter 7, Lead-based Paint Inspection, 1997 Revision.

The results of this inspection indicate lead in paint is present in amounts greater than 1.0 mg/cm^2 on most surfaces and building components.

The white wood planking, windows, door trims, interior walls, and ceilings were identified as coated with lead-based paints above 1.0 mg/cm^2. Any disturbance of these materials is subject to OSHA regulations for work with lead based paints. A majority of the ceiling plaster is delaminated and on the floors, so that any removal of debris will require the work crew to be trained.

All workers involved in construction and demolition activities are covered under The OSHA Lead Exposure in Construction Rule (29 CFR 1926.62). This standard requires workers to be trained and protected from lead exposure by use of engineering controls, respiratory protection, protective clothing and medical surveillance when airborne concentration of lead exceed established PEL levels.

Reference the Lead Paint Inspection Report sheets, pages 1 through 4 in appendix B.

4.0 PCB ANALYSIS

A composite sample of the window caulking was collected and sent to NY Environmental laboratory to test for Total PCB's using Method USEPA 8082. Analysis indicated that the results were below the detection level for all parameters tested.

The report from NY Environmental is included in Appendix C.

Appendix A - Bulk Sample Results

ENVIROSCIENCE CONSULTANTS, INC.

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ELAP # 11681; NVLAP Lab Code 200531-0

ASBESTOS BULK SAMPLE RESULTS

CLIENT:	Burton, Behrendt & Smith, P.C.	SAMPLE DATE:	2/28/2014
PROJECT NAME:	Schumacher House	DATE RECEIVED:	3/3/2014
		AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	Edik Ivans
PAGE #:	1 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C1	Ceiling Plaster Finish	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% plaster
C2	Ceiling Plaster Scatch	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% cement
C3	Ceiling Plaster Finish	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% plaster
C4	Ceiling Plaster Scatch	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% cement
C5	Ceiling Plaster Finish	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% plaster
C6	Ceiling Plaster Scatch	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% cement
C7	Wall Plaster Finish	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% plaster
C8	Wall Plaster Scratch	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% cement

Key:
ACM: Asbestos Containing Materials contain more than 1% asbestos (shown in bold type).
This method (ELAP 198.6) does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).
Method: EPA 600/M4-82/20, ELAP Item 198.6 **This report may not be reproduced without the express permission of Enviroscience. This report cannot be used to claim endorsement of products by NVLAP or any agency of the U.S. Government.****Test results only reflect conditions at the time the samples were taken.**

Analyzed by: John F Spellette **Date Analyzed: 3/5/2014**

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		AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	Edik Ivans
PAGE #:	2 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C9	Wall Plaster Finish	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% plaster
C10	Wall Plaster Scratch	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% cement
C11	Wall Plaster Finish	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% plaster
C12	Wall Plaster Scratch	Tan	Hall By East Entry	None Detected		3.0% cellulose	97.0% cement
C13	Wall Plaster Finish	White	1st floor West Room	None Detected		2.0% cellulose	98.0% plaster
C14	Wall Plaster Scratch	Tan	1st floor West Room	None Detected		4.0% cellulose	96.0% cement
C15	Wall Plaster Finish	White	1st floor West Room	None Detected		2.0% cellulose	98.0% plaster
C16	Wall Plaster Scratch	Tan	1st floor West Room	None Detected		4.0% cellulose	96.0% cement

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None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
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Analyzed by: John T Spellette **Date Analyzed: 3/5/2014**

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		AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	Edik Ivans
PAGE #:	3 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C17	Wall Plaster Finish	White	1st floor West Room	None Detected		2.0% cellulose	98.0% plaster
C18	Wall Plaster Scratch	Tan	1st floor West Room	None Detected		4.0% cellulose	96.0% cement
C19	Ceiling Plaster Finish	White	1st floor West Room	None Detected		3.0% cellulose	97.0% plaster
C20	Ceiling Plaster Scatch	Gray	1st floor West Room	None Detected		4.0% cellulose	96.0% cement
C21	Ceiling Plaster Finish	White	1st floor West Room	None Detected		2.0% cellulose	98.0% plaster
C22	Ceiling Plaster Scatch	Gray	1st floor West Room	None Detected		3.0% cellulose	97.0% cement
C23	Ceiling Plaster Finish	White	1st floor West Room	None Detected		2.0% cellulose	98.0% plaster
C24	Ceiling Plaster Scatch	Gray	1st floor West Room	None Detected		3.0% cellulose	97.0% cement

Key:
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Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).
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JOB #:	10764	SAMPLER:	Edik Ivans
PAGE #:	4 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C25	Wall Plaster Finish	White	2nd Floor Middle Room	None Detected		2.0% cellulose	98.0% plaster
C26	Wall Plaster Scratch	Gray	2nd Floor Middle Room	None Detected		3.0% cellulose	97.0% cement
C27	Wall Plaster Finish	White	2nd Floor Middle Room	None Detected		2.0% cellulose	98.0% plaster
C28	Wall Plaster Scratch	Gray	2nd Floor Middle Room	None Detected		3.0% cellulose	97.0% cement
C29	Wall Plaster Finish	White	2nd Floor Middle Room	None Detected		2.0% cellulose	98.0% plaster
C30	Wall Plaster Scratch	Gray	2nd Floor Middle Room	None Detected		3.0% cellulose	97.0% cement
C31	Ceiling Plaster Finish	White	2nd Floor Middle Room	None Detected		2.0% cellulose	98.0% plaster
C32	Ceiling Plaster Scatch	Gray	2nd Floor Middle Room	None Detected		3.0% cellulose	97.0% cement

Key:
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Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).
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PAGE #:	5 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C33	Ceiling Plaster Finish	White	2nd Floor Middle Room	None Detected		2.0% cellulose	98.0% plaster
C34	Ceiling Plaster Scatch	Gray	2nd Floor Middle Room	None Detected		3.0% cellulose	97.0% cement
C35	Ceiling Plaster Finish	White	2nd Floor Middle Room	None Detected		2.0% cellulose	98.0% plaster
C36	Ceiling Plaster Scatch	Gray	2nd Floor Middle Room	None Detected		3.0% cellulose	97.0% cement
C37	**9X9 Floor Tile**	**Green**	**Northeast Room 1st Floor**	**10.0% Asbestos**	**10.0% Chrysotile**	**None Detected**	**34.9% organics and carbonates 55.1% silicates and opaques**
C38	**9X9 Floor Tile**	**Green**	**Northeast Room 1st Floor**	**9.8% Asbestos**	**9.8% Chrysotile**	**None Detected**	**41.6% organics and carbonates 48.6% silicates and opaques**

Key:
ACM: Asbestos Containing Materials contain more than 1% asbestos (shown in bold type).
This method (ELAP 198.6) does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).
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		AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	Edik Ivans
PAGE #:	6 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C39	**Floor Tile Mastic From C37**	**Black**	**Northeast Room 1st Floor**	**2.7% Asbestos**	**2.7% Chrysotile**	**None Detected**	**89.3% organics and carbonates 8.0% silicates and opaques**
C40	**Floor Tile Mastic From C38**	**Black**	**Northeast Room 1st Floor**	**2.8% Asbestos**	**2.8% Chrysotile**	**None Detected**	**89.5% organics and carbonates 7.7% silicates and opaques**
C41	**1X1 Ceiling Tile Glue Daub**	**Brown**	**Northeast Room 1st Floor**	**13.5% Asbestos**	**13.5% Chrysotile**	**None Detected**	**49.5% organics and carbonates 37.0% silicates and opaques**
C42	**1X1 Ceiling Tile Glue Daub**	**Brown**	**Northeast Room 1st Floor**	**11.9% Asbestos**	**11.9% Chrysotile**	**None Detected**	**46.4% organics and carbonates 41.7% silicates and opaques**
C43	1X1 Ceiling Tile	Tan	Northeast Room 1st Floor	None Detected by TEM		None Detected	99.2% organics and carbonates 0.8% silicates and opaques

Key:
ACM: Asbestos Containing Materials contain more than 1% asbestos (shown in bold type).
This method (ELAP 198.6) does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).
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Analyzed by: John F Spellette **Date Analyzed: 3/5/2014**

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		AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	Edik Ivans
PAGE #:	7 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C44	1X1 Ceiling Tile	Tan	Northeast Room 1st Floor	None Detected by TEM		None Detected	99.5% organics and carbonates 0.5% silicates and opaques
C45	Vibration Damper Cloth	Gray/ Green	Basement Air Duct	None Detected		90.0% cellulose	10.0% binders
C46	Vibration Damper Cloth	Gray/ Green	Basement Air Duct	None Detected		90.0% cellulose	10.0% binders
C47	**Window Caulk**	**Gray**	**Exterior South Side**	**5.0% Asbestos**	**5.0% Chrysotile**	**None Detected**	**70.1% organics and carbonates 24.9% silicates and opaques**
C48	**Window Caulk**	**Gray**	**Exterior South Side**	**4.3% Asbestos**	**4.3% Chrysotile**	**None Detected**	**71.9% organics and carbonates 23.8% silicates and opaques**
C49	Vapor Barrier	Tan	Interior East Entry	None Detected		90.0% cellulose	10.0% binders

Key:
ACM: Asbestos Containing Materials contain more than 1% asbestos (shown in bold type).
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Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).
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Analyzed by: John A Spiletta **Date Analyzed:** 3/5/2014

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JOB #:	10764	SAMPLER:	Edik Ivans
PAGE #:	8 of 8	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C50	Vapor Barrier	Tan	Interior East Entry	None Detected		90.0% cellulose	10.0% binders
C51	Vapor Barrier	Black	Exterior Wall East Side	None Detected by TEM		None Detected	97.8% organics and carbonates 2.2% silicates and opaques
C52	Vapor Barrier	Black	Exterior Wall East Side	None Detected by TEM		None Detected	94.1% organics and carbonates 5.9% silicates and opaques
C53	Vapor Barrier	Black	Eterior Roof East Side	None Detected by TEM		None Detected	96.0% organics and carbonates 4.0% silicates and opaques
C54	Vapor Barrier	Black	Eterior Roof East Side	None Detected by TEM		None Detected	97.1% organics and carbonates 2.9% silicates and opaques

Key:
ACM: Asbestos Containing Materials contain more than 1% asbestos (shown in bold type).
This method (ELAP 198.6) does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.
Trace - Asbestos found is 1% or less; not considered ACM.
None Detected - No asbestos found in samples using polarized light microscopy (PLM).
None Detected by TEM - No asbestos found in samples using transmission electron microscopy (TEM) and polarized light microscopy (PLM) was found to be negative.
Negative by Weight – After matrix reduction, the remainder is less than 1% and, therefore, cannot fulfill the definition of asbestos containing material.
Inconclusive - No asbestos found in non-friable organically bound samples using polarized light microscopy (PLM).
Method: EPA 600/M4-82/20, ELAP Item 198.6 This report may not be reproduced without the express permission of Enviroscience. This report cannot be used to claim endorsement of products by NVLAP or any agency of the U.S. Government.Test results only reflect conditions at the time the samples were taken.

Analyzed by: John F Spellitt **Date Analyzed:** 3/5/2014

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ELAP # 11681; NVLAP Lab Code 200531-0

ASBESTOS BULK SAMPLE

CLIENT:	Burton, Behrendt & Smith, P.C.	SAMPLE DATE:	2/28/2014
PROJECT NAME:	Schumacher House	AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	edik ivans
PAGE #:	1 of 6	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C1	Ceiling Plaster Finish	Tan	Hall By East Entry		ND	3.0% CELL	97.0% PLASTER
C2	Ceiling Plaster Scatch	Tan	Hall By East Entry		ND	3.0% CELL	97.0% CEMENT
C3	Ceiling Plaster Finish	Tan	Hall By East Entry		ND	3.0% CELL	97.0% PLASTER
C4	Ceiling Plaster Scatch	Tan	Hall By East Entry		ND	3.0% CELL	97.0% CEMENT
C5	Ceiling Plaster Finish	Tan	Hall By East Entry		ND	3.0% CELL	97.0% PLASTER
C6	Ceiling Plaster Scatch	Tan	Hall By East Entry		ND	3.0% CELL	97.0% CEMENT
C7	Wall Plaster Finish	Tan	Hall By East Entry		ND	3.0% CELL	97.0% PLASTER
C8	Wall Plaster Scratch	Tan	Hall By East Entry		ND	3.0% CELL	97.0% CEMENT
C9	Wall Plaster Finish	Tan	Hall By East Entry		ND	3.0% CELL	97.0% PLASTER

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ASBESTOS BULK SAMPLE

CLIENT:	Burton, Behrendt & Smith, P.C.	SAMPLE DATE:	2/28/2014
PROJECT NAME:	Schumacher House	AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	edik ivans
PAGE #:	2 of 6	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C10	Wall Plaster Scratch	Tan	Hall By East Entry		ND	3.0% CELL	97.0% CEMENT
C11	Wall Plaster Finish	Tan	Hall By East Entry		ND	3.0% CELL	97.0% PLASTER
C12	Wall Plaster Scratch	Tan	Hall By East Entry		ND	3.0% CELL	97.0% CEMENT
C13	Wall Plaster Finish	White	1st floor West Room		ND	2.0% CELL	98.0% PLASTER
C14	Wall Plaster Scratch	Tan	1st floor West Room		ND	4.0% CELL	96.0% CEMENT
C15	Wall Plaster Finish	White	1st floor West Room		ND	2.0% CELL	98.0% PLASTER
C16	Wall Plaster Scratch	Tan	1st floor West Room		ND	4.0% CELL	96.0% CEMENT
C17	Wall Plaster Finish	White	1st floor West Room		ND	2.0% CELL	98.0% PLASTER
C18	Wall Plaster Scratch	Tan	1st floor West Room		ND	4.0% CELL	96.0% CEMENT

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ASBESTOS BULK SAMPLE

CLIENT:	Burton, Behrendt & Smith, P.C.	SAMPLE DATE:	2/28/2014
PROJECT NAME:	Schumacher House	AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	edik ivans
PAGE #:	3 of 6	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C19	Ceiling Plaster Finish	White	1st floor West Room		ND	3.0% CELL	97.0% PLASTER
C20	Ceiling Plaster Scatch	Gray	1st floor West Room		ND	4.0% CELL	96.0% CEMENT
C21	Ceiling Plaster Finish	White	1st floor West Room		ND	2.0% CELL	98.0% PLASTER
C22	Ceiling Plaster Scatch	Gray	1st floor West Room		ND	3.0% CELL	97.0% CEMENT
C23	Ceiling Plaster Finish	White	1st floor West Room		ND	2.0% CELL	98.0% PLASTER
C24	Ceiling Plaster Scatch	Gray	1st floor West Room		ND	3.0% CELL	97.0% CEMENT
C25	Wall Plaster Finish	White	2nd Floor Middle Room		ND	2.0% CELL	98.0% PLASTER
C26	Wall Plaster Scratch	Gray	2nd Floor Middle Room		ND	3.0% CELL	97.0% CEMENT
C27	Wall Plaster Finish	White	2nd Floor Middle Room		ND	2.0% CELL	98.0% PLASTER

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ASBESTOS BULK SAMPLE

CLIENT:	Burton, Behrendt & Smith, P.C.	SAMPLE DATE:	2/28/2014
PROJECT NAME:	Schumacher House	AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	edik ivans
PAGE #:	4 of 6	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C28	Wall Plaster Scratch	Gray	2nd Floor Middle Room		ND	3.0% CELL	97.0% CEMENT
C29	Wall Plaster Finish	White	2nd Floor Middle Room		ND	2.0% CELL	98.0% PLASTER
C30	Wall Plaster Scratch	Gray	2nd Floor Middle Room		ND	3.0% CELL	97.0% CEMENT
C31	Ceiling Plaster Finish	White	2nd Floor Middle Room		ND	2.0% CELL	98.0% PLASTER
C32	Ceiling Plaster Scatch	Gray	2nd Floor Middle Room		ND	3.0% CELL	97.0% CEMENT
C33	Ceiling Plaster Finish	White	2nd Floor Middle Room		ND	2.0% CELL	98.0% PLASTER
C34	Ceiling Plaster Scatch	Gray	2nd Floor Middle Room		ND	3.0% CELL	97.0% CEMENT
C35	Ceiling Plaster Finish	White	2nd Floor Middle Room		ND	2.0% CELL	98.0% PLASTER
C36	Ceiling Plaster Scatch	Gray	2nd Floor Middle Room		ND	3.0% CELL	97.0% CEMENT

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ASBESTOS BULK SAMPLE

CLIENT:	Burton, Behrendt & Smith, P.C.	SAMPLE DATE:	2/28/2014
PROJECT NAME:	Schumacher House	AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	edik ivans
PAGE #:	5 of 6	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C37	9X9 Floor Tile	Green	Northeast Room 1st Floor		10.1% CHRYS	ND	34.3% ORG. + CARB. 55.6% SIL. + OPAQ.
C38	9X9 Floor Tile	Green	Northeast Room 1st Floor		9.8% CHRYS	ND	41.6% ORG. + CARB. 48.6% SIL. + OPAQ.
C39	Floor Tile Mastic From C37	Black	Northeast Room 1st Floor		2.7% CHRYS	ND	89.3% ORG. + CARB. 8.0% SIL. + OPAQ.
C40	Floor Tile Mastic From C38	Black	Northeast Room 1st Floor		2.8% CHRYS	ND	89.5% ORG. + CARB 7.7% SIL. + OPAQ.
C41	1X1 Ceiling Tile Glue Daub	Brown	Northeast Room 1st Floor		13.5% CHRYS	ND	49.5% ORG. + CARB. 37.0% SIL. + OPAQ.
C42	1X1 Ceiling Tile Glue Daub	Brown	Northeast Room 1st Floor		11.9% CHRYS	ND	46.4% ORG. + CARB. 41.7% SIL. + OPAQ.
C43	1X1 Ceiling Tile	Tan	Northeast Room 1st Floor				99.2% ORG. + CARB.
C44	1X1 Ceiling Tile	Tan	Northeast Room 1st Floor				99.5% ORG. + CARB.
C45	Vibration Damper Cloth	Gray/ Green	Basement Air Duct		ND	90.0% CELL	10.0% BINDERS

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ASBESTOS BULK SAMPLE

CLIENT:	Burton, Behrendt & Smith, P.C.	SAMPLE DATE:	2/28/2014
PROJECT NAME: .	Schumacher House	AREA:	Interior-Exterior
JOB #:	10764	SAMPLER:	edik ivans
PAGE #:	6 of 6	CUSTODY #:	9872

Sample #	Description	Color	Location	Result	% Asbestos-type	% Non-asbestos Fibers-type	% Matrix-type
C46	Vibration Damper Cloth	Gray/ Green	Basement Air Duct	ND		90.0% CELL	10.0% BINDERS
C47	Window Caulk	Gray	Exterior South Side	5.0% CHRYS	ND		70.1% ORG.+CARB. 24.9% SIL.+OPAQ.
C48	Window Caulk	Gray	Exterior South Side	4.3% CHRYS	ND		71.9% ORG.+CARB. 23.8% SIL.+OPAQ.
C49	Vapor Barrier	Tan	Interior East Entry	ND		90.0% CELL	10.0% BINDERS
C50	Vapor Barrier	Tan	Interior East Entry	ND		90.0% CELL	10.0% BINDERS
C51	Vapor Barrier	Black	Exterior Wall East Side				97.8% ORG.+CARB.
C52	Vapor Barrier	Black	Exterior Wall East Side				94.1% ORG.+CARB.
C53	Vapor Barrier	Black	Eterior Roof East Side				96.0% ORG.+CARB.
C54	Vapor Barrier	Black	Eterior Roof East Side				97.1% ORG.+CARB.

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Appendix B – Lead XRF Results

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LEAD PAINT INSPECTION REPORT

BUILDING NAME:	SCHUMACHER HOUSE	DATE:	FEBRUARY 28, 2014
ROOM EQUIVALENT:	EXTERIOR (JOB 10764)	XRF SERIAL NUMBER:	26952
INSPECTOR NAME:	THOMAS KLUENDER	SIGNATURE:	Thomas Kluender

SAMPLE ID#	SUBSTRATE	COMPONENT	COLOR	TEST LOCATION	XRF READING	CLASSIFICATION
3014				CALIBRATION CHECK	1.1	-
3015				CALIBRATION CHECK	1.0	-
3016				CALIBRATION CHECK	1.1	-
3017	WOOD	WOOD PLANK SIDING	WHITE	EXTERIOR WEST SIDE	0.08	NEGATIVE
3018	WOOD	WOOD PLANK SIDING	WHITE	EXTERIOR WEST SIDE	36.4	POSITIVE
3019	WOOD	WOOD PLANK SIDING	WHITE	EXTERIOR WEST SIDE	31.1	POSITIVE
3020	WOOD	WINDOW TRIM	WHITE	EXTERIOR WEST SIDE	31.9	POSITIVE
3021	WOOD	DOOR TIM	WHITE	EXTERIOR WEST SIDE	28.8	POSITIVE
3022	WOOD	WINDOW TRIM	WHITE	EXTERIOR WEST SIDE	34.6	POSITIVE
3023	WOOD	WOOD PLANK SIDING	WHITE	EXTERIOR NORTH SIDE	26.2	POSITIVE
3024	WOOD	WOOD PLANK SIDING	WHITE	EXTERIOR NORTH SIDE	0.06	NEGATIVE
3025	WOOD	WOOD PLANK SIDING	WHITE	EXTERIOR NORTH SIDE	0.05	NEGATIVE
3026	WOOD	WINDOW TRIM	WHITE	EXTERIOR NORTH SIDE	8.4	POSITIVE
3027	WOOD	WINDOW TRIM	WHITE	EXTERIOR NORTH SIDE	0.00	NEGATIVE

Enviroscience Consultants, Inc.
Lead Paint Inspection Report – Schumacher House

Sample ID#	Substrate	component	color	test location	XRF reading	classification
3028	Wood	Window Trim	White	Exterior North Side	0.00	Negative
3029	Wood	Wood Plank Siding	White	Exterior East Side	0.00	Negative
3030				VOID		
3031	Wood	Wood Plank Siding	White	Exterior East side	37.5	Positive
3032	Wood	Door Jam	White	Rear Door South Side	4.9	Positive
3033	Wood	Window Trim	White	Rear – South Side – Interior	10.2	Positive
3034	Wood	Window Sash	White	Rear – South Side – Interior	18.0	Positive
3035	Plaster	Wall	White	Rear Entrance – South Side	1.6	Positive
3036	Wood	Door Trim	White	Entrance to Kitchen	12.9	Positive
3037	Wood	Door Trim	White	Entrance to Basement	10.3	Positive
3038	Wood	Door Jam	White	Bathroom	0.21	Negative
3039	Wood	Door	Tan	Dining Room East Side	24.6	Positive
3040	Wood	Window Sash	White	Dining Room East Side	4.9	Positive
3041	Wood	Window Sill	White	Dining Room East Side	1.7	Positive
3042	Wood	Shingle Wall	White	Parlor – North Side	0.04	Negative
3043	Wood	Plank Ceiling	White	Dining Room	2.3	Positive
3044	Plaster	Wall	White	Dining Room Wall 1	0.09	Negative
3045	Plaster	Wall	White	Dining Room Wall 2	1.8	Positive
3046	Wood	Door Frame	Brown	Dining Room	0.8	Negative
3047	Plaster	Wall	White	Living Room – South Wall	0.4	Negative

Enviroscience Consultants, Inc.
Lead Paint Inspection Report – Schumacher House

Sample ID#	Substrate	component	color	test location	XRF reading	classification
3048	Wood	Crown Molding	White	Room North of Living Room	4.7	Positive
3049				Calibration Check	1.1	-
3050				Calibration Check	1.2	-
3051				Calibration Check	1.2	-