HAZARDOUS MATERIALS SURVEY
COMMERCIAL BUILDING
4 SOUTH BROADWAY
SALEM, NEW HAMPSHIRE

January 2020

Project 19039

GREEN
ENVIRONMENTAL

HAZARDOUS MATERIALS SURVEY

Commercial Property
4 South Broadway
Salem, New Hampshire

January 9, 2020

Project 19039

Prepared for:

Vanasse Hangen Brustlin
101 Walnut Street
Watertown, MA 02472
ATTN: Katherine Kudzma

Prepared by:

Green Environmental, Inc.
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1.0 INTRODUCTION

Green Environmental, Inc. (GREEN) was retained by Vanasse Hangen Brustlin (VHB) to conduct a hazardous materials survey of the commercial building located at 4 South Broadway in Salem, New Hampshire. GREEN understands the surrounding area is scheduled to be redeveloped and that the existing structure will be demolished. GREEN completed this Hazardous Materials Survey to support the planned redevelopment.

1.1 Building Description

According to the Town of Salem Assessor field card and GREEN's site inspection, the building located at 4 South Broadway is an approximately 4,886 square-foot, single-story, commercial building constructed in 1950.

The building has a concrete slab foundation, with a concrete block and wood frame construction and an asphalt shingle and flat rubber roof. Representative site photographs for the building are included in **Appendix A**. Site plans are provided for reference included as **Figure 1 and 2**.

1.2 Scope of Work

GREEN was retained to conduct a Hazardous Materials Survey to document the presence of oil or hazardous materials at the subject building that may require abatement and/or special handling and disposal prior to building demolition. The Survey included assessment for the presence of asbestos and lead-based paint, and the cataloging of oils and/or hazardous materials located within the building. Bulk samples of suspect building materials were collected using destructive measures, and submitted for laboratory analysis as appropriate. The presence of lead-based paint was evaluated using an X-Ray fluorescence (XRF) field instrument.

2.0 ASBESTOS SURVEY

2.1 Regulatory Background

Regulations for asbestos exposure and/or asbestos release have been promulgated by the United States Environmental Protection Agency (EPA), U.S. Occupational Safety and Health Administration (OSHA), and New Hampshire Department of Environmental Services (NHDES).

OSHA regulates asbestos in the workplace through the Asbestos for General Industry Standard (29 Code of Federal Regulations [CFR] 1910.1001) and the removal of regulated asbestos-containing material (RACM) though the Asbestos Standard for Construction (29 CFR 1926.1101). OSHA regulations are created for the protection of the health of workers who may be occupationally exposed to asbestos. These occupations include asbestos abatement, construction activities, building maintenance, and others. OSHA requires that asbestos ACM be removed or appropriately abated prior to any work which will disturb the material, including demolition and renovation. Additionally, OSHA stipulates that thermal system insulation (TSI), surfacing materials and floor tile installed before 1980 must be presumed to be ACM unless appropriate sampling and analysis prove otherwise.

EPA and NHDES regulate ACM associated with building demolition, renovation, and abatement projects. The regulations are promulgated via the National Emission Standards for Hazardous Air Pollutants (NESHAP 40 CFR part 61) and the New Hampshire Cod of Administrative Rules (Env-A 1800). The regulations are developed to protect public health and the environment and require that buildings be inspected for asbestos prior to any demolition or renovation. Further, the regulations require that all affected friable and non-friable ACM which is damaged or will be damaged as a result of the demolition or renovation activities be properly removed or abated prior to disturbance by the work.

NESHAP defines three types of ACM:

- Friable ACM: ACM that can be reduced to power by hand pressure requiring removal prior to renovation or demolition (e.g., thermal system insulation (TSI), plaster, joint compound, ceiling tiles).
- Category I non-friable ACM: ACM that is not friable and does not require removal prior to demolition, unless these materials have become friable, will become friable if disturbed, or are in poor condition; must be removed prior to renovation (e.g., resilient floor covering, packings, gaskets, asphalt roofing).
- Category II non-friable ACM: ACM that is not friable and does not require removal prior to demolition, unless these materials have become friable, will become friable if disturbed, or are in poor condition; must be removed prior to renovation (all other non-friable ACM).

RACM is friable ACM and non-friable ACM that may become friable during demolition or renovation activities. Practically speaking, both Category I non-friable ACM and Category II non- friable ACM will become friable in a typical commercial demolition or renovation scenario and must be abated prior to the work.

2.2 Sample Collection and Analysis

Bulk samples were collected based on type and quantity of each suspect material following the sampling guidelines set forth in the Asbestos Hazard Emergency Response Act (AHERA 40 CFR 763.86). Green inspected for materials among those defined as suspect ACM by EPA's AHERA regulation which include:

- Thermal system insulation (TSI) (e.g., pipe/boiler lagging, duct insulation);
- Surfacing materials (e.g., spray-on insulation, texturing materials, plaster), and;
- Miscellaneous materials (e.g., ceiling tiles, transite panels, flooring, vibration joints, drywall).

Fiberglass, foam glass, rubber, wood products, plastic products, glass and steel were not sampled since they are not considered suspect ACM.

The asbestos survey was conducted by Mr. Luke Krzyzewski, New Hampshire Accredited Asbestos Inspector AI100882. A copy of personnel accreditation is included as **Appendix B**. A total of 59 bulk samples were collected from the 4 South Broadway building on December 11, 2019. The samples were collected using hand tools, and sampling equipment was cleaned between the collection of each sample. Each sample location was wet with water prior to sampling to avoid creating dust during sampling. Bulk samples were placed in individual air tight plastic bags and transferred to Asbestos Identification Laboratory of Woburn, Massachusetts for analysis via EPA 600/R-93/116 and/or EPA Interim Method 600/M4-82-020 methods using Polarized Light Microscopy (PLM). Asbestos Identification Laboratory is licensed by the National Voluntary Laboratory Accreditation Program (NVLAP) (#200919-00) for bulk asbestos analysis. The field survey, chain of custody documentation and laboratory certificates of analysis are included in **Appendix C**. In accordance with NESHAP and NHDES regulations, materials are considered asbestos-containing if they contain greater than 1% asbestos as determined by PLM.

The following is a list of materials that were determined to be **non-asbestos-containing**:

Interior: Unit 4

- 12” White Floor Tile
- Gray Cove Base and Adhesive
- Joint Compound
- Panel Adhesive
- 1’ x 1’ Smooth Ceiling Tile
- 12” Gray Floor Tile and Adhesive
- Drywall
- Textured Ceiling
- Panel Material
- Ceramic Floor Tile Grout and Adhesive

Exterior: Unit 4

- Gray Door Caulking

The following is a list of materials that were determined to be **asbestos-containing**:

Unit 4:

- 12” White Floor Tile Black Mastic
- Field Flash Material
- Interior Window Glaze

The following is a list of materials that were determined to be **non-asbestos-containing**: *(Continued)*

Interior: Unit 6

- Yellow Carpet Mastic
- Gray Floor Leveler
- 12" Green Floor Tile and Mastic
- Drywall
- 2' x 4' Smooth Ceiling Tile
- Window Caulking
- Interior Window Glaze
- White Floor Leveler
- 12" White Floor Tile and Mastic
- Ceramic Floor Tile Grout and Adhesive
- Joint Compound
- 2' x 4' Fissure Dot Ceiling Tile
- Black Window Glaze

Exterior: Unit 6

- Roof Paper
- Asphalt Shingle

The following is a list of materials that were determined to be **asbestos-containing**:

Unit 6:

- Exterior White Window Caulking
- Black Chimney Flash
- Exterior Window Glaze

The following is a list of materials that were determined to contain **trace (<1%) asbestos**:

- Field/Flash Material

Based on the review of analytical data associated with the above bulk sample collection, asbestos was **positively** identified at the 14 South Broadway building. Please refer to **Appendix E** which summarizes the materials, locations, and estimated quantities that tested positive for asbestos at the 4 South Broadway building. Site photographs are included in **Appendix A**. A Site Plan is included as **Figure 1**.

Materials containing trace amounts (less than 1%) of asbestos are not fully regulated as an ACM in New Hampshire, however, they must still be handled in accordance with OSHA 1926.1101 and per current NHDES regulations, must be disposed of under an asbestos waste shipment record as asbestos-containing waste material. Site schematics depicting the approximate layout of the building are included as **Appendix E**.

3.0 LEAD BASED PAINT SURVEY

3.1 Regulatory Background

The Occupational Safety and Health Administration (OSHA) worker protection rule has established a permissible exposure limit (PEL) of 0.050 milligrams per cubic meter for airborne lead. OSHA worker protection rules are applicable for any amount of lead. The Resource Conservation and Recovery Act (RCRA) regulates wastes containing lead as hazardous wastes if the leachable lead in the waste exceeds 5 parts per million (ppm) by Toxicity Characteristic Leachate Procedure (TCLP).

The United States Department of Housing and Urban Development (HUD) has established a threshold for in- lace paint of 1 mg/cm^2 lead as measured by X-ray fluorescence (XRF), above which paint is considered lead-containing. Although HUD guidelines are only directly applicable to residential buildings, the threshold is useful as a guideline for identifying exposure and waste disposal issues in non-residential buildings.

3.2 Sample Analysis

A Lead Based Paint (LBP) Survey was conducted on December 12 and 13, 2020 by Mr. David Pesce, New Hampshire Lead Paint Inspector and Risk Assessor No. RA-00059, utilizing an XRF. This is a non-destructive analytical technique used to determine the elemental composition of materials. XRF analyzers determine the chemistry of a sample by measuring the fluorescent (or secondary) X-ray emitted from a sample when it is excited by a primary X-ray source. This release of energy is then registered by the detector in the XRF instrument, which in turn categorizes the energies by element.

The investigation included a survey of painted surfaces for the presence of lead-based paint (LBP) throughout the building. Painted surfaces containing elevated levels of lead were identified during the survey. Please refer to the field inspection log sheets, included as **Appendix F,** which identifies the locations of elevated lead painted surfaces.

The purpose of the LBP survey was to assist the owner and/or contractor in OSHA compliance for worker protection during the planned renovation of the subject building. Survey results may also assist with characterization of construction debris/waste prior to disposal.

4.0 OTHER HAZARDOUS MATERIALS

4.1 Oil, Paints & Cleaners

No cleaning, maintenance supplies, or paints were noted within the property building.

4.2 Mercury Containing Devices

No mercury containing thermostats were identified within the building.

4.3 Fluorescent Lights & Ballasts

Fluorescent light fixtures were noted throughout the building. Fluorescent lighting tubes can contain both mercury and lead, and have special handling and disposal requirements. Under federal regulations used fluorescent lamp becomes a waste on the day that it is discarded. The disposal of fluorescent lighting tubes is regulated under the Resource Conservation and Recovery Act (RCRA).

Additionally, fluorescent light ballasts manufactured prior to 1979 may contain polychlorinated biphenyls (PCBs). PCB-based oils were used as insulating oil in many types of ballast to provide cooling and electrical isolation. PCBs are regulated by the EPA and also have special handling and disposal requirements, depending on the concentration.

Each light fixture should be inspected for "No PCBs" labeling, prior to removal. Lighting ballasts which contain PCBs should be segregated from non-PCB containing ballasts and properly disposed. Ballasts with no labeling should be considered PCB. The fluorescent tubes should be transported off-site for recycling. Please refer to **Appendix G,** for approximate quantities and locations of fluorescent lights and ballasts.

4.4 Refrigerants

No refrigerants were noted within the building.

4.5 Emergency Equipment

Emergency lights were observed within the subject building. Batteries associated with these units are an alkaline, NiMH and NiCAD source. The batteries should be either recycled or properly disposed, prior to being disturbed. Emergency exit signs can also contain radioactive components requiring proper disposal. Please refer to **Appendix G,** for approximate quantities and locations of emergency equipment.

5.0 RESULTS AND RECOMMENDATIONS

GREEN has completed a Hazardous Materials Survey of the building located at 4 South Broadway in Salem, New Hampshire. The property building consists of an approximately 4,868 square foot warehouse structure. GREEN understands the existing structure will be demolished. GREEN completed this Hazardous Materials Survey to support the planned redevelopment. The Survey included assessment for the presence of asbestos via bulk sample collection and laboratory analysis, a lead-based paint XRF survey, and the cataloging of oils and/or hazardous materials located within the building.

Asbestos was positively identified at the 14 South Broadway building, as summarized in **Section 2** and **Appendix E**. In accordance with NESHAP and NHDES regulations, all friable ACM, or materials made friable by demolition or renovation activities, must be removed from the building by a licensed asbestos abatement contractor, prior to demolition or renovation. Removal of ACM is regulated by NHDES. GREEN recommends the identified ACMs be removed from the buildings in accordance with applicable asbestos abatement regulations prior to the start of planned demolition activities. Asbestos abatement must be done by a New Hampshire licensed Asbestos Abatement Contractor and be properly disposed of offsite at an appropriate receiving facility in compliance with all applicable state and federal regulations. The New Hampshire asbestos regulations require visual inspection and clearance air monitoring at the completion of an asbestos abatement project. Additionally, full-time monitoring of asbestos abatement procedures in compliance with design specifications and regulations is recommended during major asbestos abatement projects.

NHDES regulations require notification to the Department and local government officials using the Asbestos Demolitions/Renovation Notification Form, 201-05-31 at least 10 working days prior to conducting of an asbestos response action of more than 10 linear-feet or 25 square feet of ACM.

Materials containing trace amounts (less than 1%) of asbestos are not fully regulated as an ACM in New Hampshire, however, they must still be handled in accordance with OSHA 1926.1101 and per current NHDES regulations, must be disposed of under an asbestos waste shipment record as asbestos-containing waste material.

Based on the results of the lead-based paint survey, lead concentrations at or greater than 1.0 mg/cm^2 were identified as described in the XRF field inspection sheets included as **Appendix F**. OSHA worker protection rules apply for any amount of lead in paint, GREEN recommends that the owner provide the results of the LBP survey provided in this report to its demolition contractor. The contractor should consider this information in planning for worker protection during the renovation waste disposal. Removal of the paint prior to demolition is not required. However, the contractor may choose to monitor ambient air for lead during demolition, or demonstrate through air monitoring data collected from previous similar projects that the concentrations of lead identified will not result in an exceedance of the OSHA PEL during the demolition. The demolition contractor should also consider whether TCLP characterization of the demolition debris in accordance with RCRA is appropriate. Demolition work must be conducted in accordance with applicable federal, state, and local regulations.

Other oil and hazardous materials were identified within the building and should be properly segregated, disposed/or recycled as appropriate as summarized in **Section 4 and Appendix G** of this Survey report.

6.0 LIMITATIONS

The opinions expressed by GREEN are based solely on the observations, sampling and analysis, and information cited in this report. Observations were made at the subject site under the conditions stated. The purpose of this study was to determine the nature and approximate quantities of hazardous materials prior to demolition activities. This report does not constitute a complete determination of whether past or current owners, operators or occupants of the site have been in compliance with all applicable state, federal or local environmental regulations. This report does not constitute an AHERA survey. GREEN makes no representation regarding material located in inaccessible areas.

Semi-destructive measures were implemented to obtain bulk samples for asbestos analysis. GREEN makes no representation regarding inaccessible materials which may be located within walls, ceilings, ducts, roofs, below grade or other inaccessible areas. Additional field measurements and/or bulk sampling may be required following the exposure/removal of walls, flooring, etc. Should additional material be identified during demolition activities that are not listed in this report the work should be stopped and samples be collected to determine if hazardous classification is warranted.

Our conclusions are based solely on the information described herein and are believed to be representative of conditions at the time of the building survey. If additional information concerning the environmental conditions of the subject site becomes available, GREEN should be notified and presented with that information. Based on the new information, we will reevaluate the conclusions stated in this report to determine whether modifications are warranted.

This report is not a project specification and should not be used as a bidding document, including an asbestos abatement or building demolition specification.

We appreciate the opportunity to provide you with these environmental services. Please contact the undersigned with any questions at 617-479-0550.

Sincerely,
GREEN ENVIRONMENTAL, INC.

Luke Krzyzewski
Project Manager
Environmental Consulting Services

Kristen Awed-Ladas
Senior Project Manager
Environmental Consulting Services

Plans and Figures

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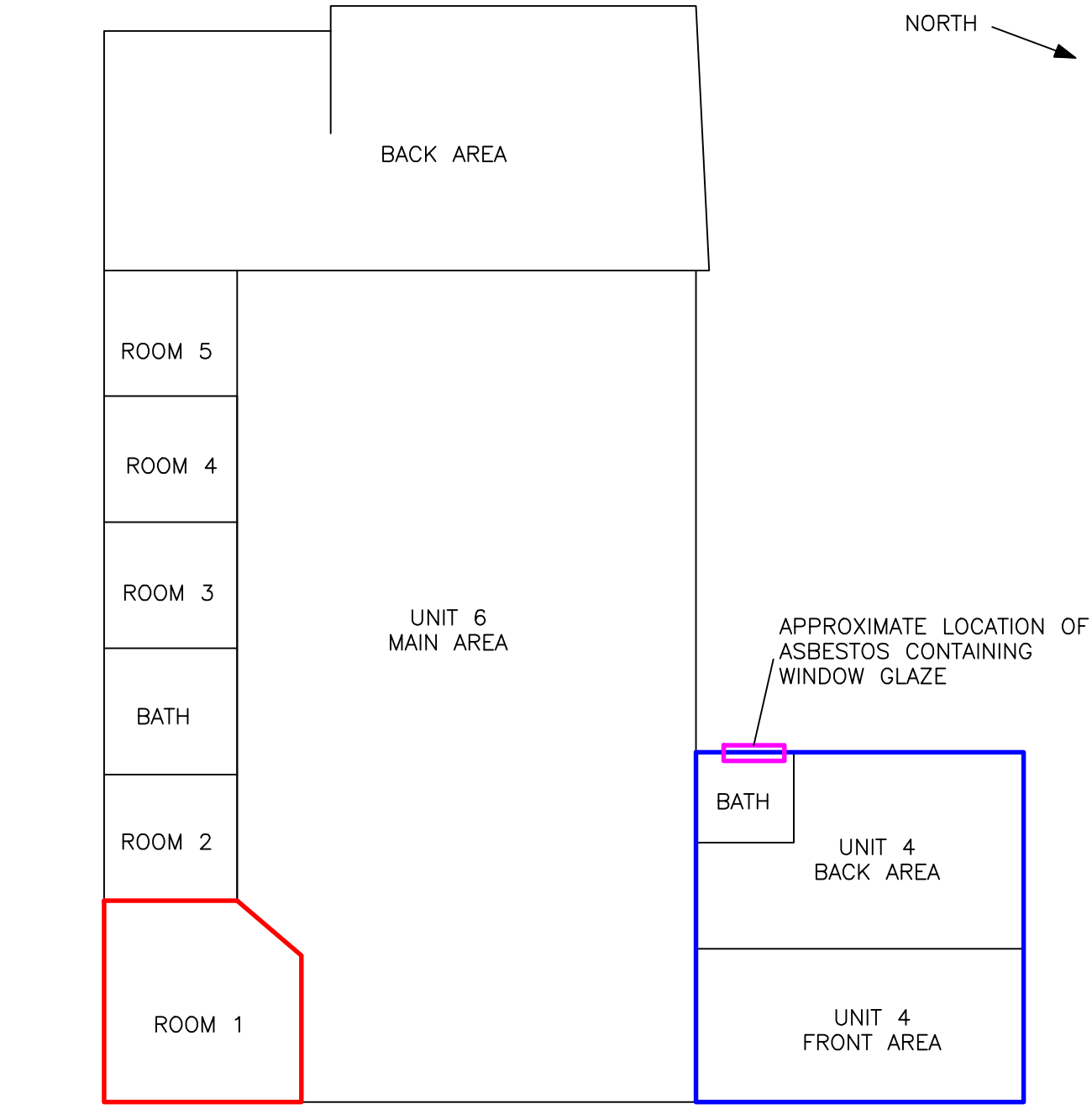

SITE PLAN
4 SOUTH BROADWAY
SALEM, NH

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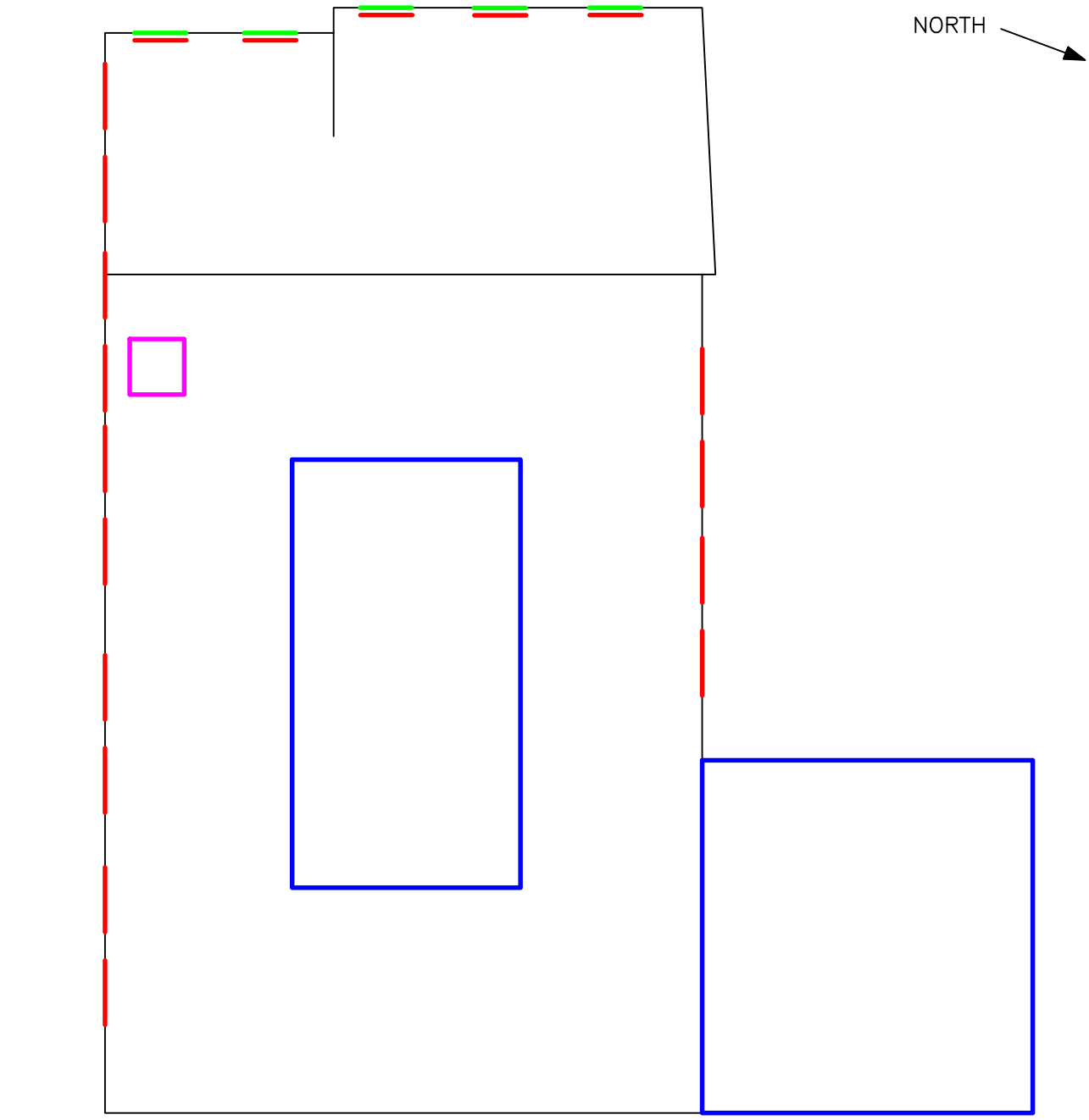
VHB
101 WALNUT STREET
WATERTOWN, MA

FIGURE: 1
PROJECT NO.: 19039
DATE: JANUARY 2020

APPROVED BY: KA
CHECKED BY: KA
DRAWN BY: LK



EXTERIOR SITE PLAN
4 SOUTH BROADWAY
SALEM, NH

GREEN ENVIRONMENTAL

VHB
101 WALNUT STREET
WATERTOWN, MA

FIGURE: 2
PROJECT NO.: 19039
DATE: JANUARY 2020

APPROVED BY: KA
CHECKED BY: KA
DRAWN BY: LK

Appendix A

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A view of the east side of the building facing northwest

A view of the north side of the building, facing south.

A view of the west side of the building, facing south

A view of the exterior windows, behind plywood

A view of the front area of Unit 4

A view of the bath of Unit 4

A view of the main area of Unit 6

A view of Room 1 within Unit 6

A view of the back area of Unit 6

Appendix B

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4 S BROADWAY

Location	4 S BROADWAY	**Mblu**	89/ / 1094/ /
Acct#		**Owner**	4-6 SOUTH BROADWAY LLC
Assessment	$427,800	**Appraisal**	$427,800
PID	6364	**Building Count**	1

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$145,500	$282,300	$427,800
Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2018	$145,500	$282,300	$427,800

Owner of Record

Owner	4-6 SOUTH BROADWAY LLC	**Sale Price**	$0
Co-Owner		**Certificate**	
Address	PO BOX 90 SALEM, NH 03079-0090	**Book & Page**	3339/2944
		Sale Date	10/21/1998

Ownership History

Ownership History				
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Sale Date**
4-6 SOUTH BROADWAY LLC	$0		3339/2944	10/21/1998
	$0		2566/1652	10/03/1985

Building Information

Building 1 : Section 1

Year Built: 1950
Living Area: 4,886
Replacement Cost: $273,738
Replacement Cost Less Depreciation: $142,300

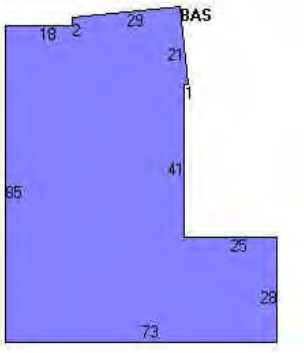
Building Photo

Building Attributes	
Field	**Description**
STYLE	Store
MODEL	Comm/Ind
Stories:	1

Occupancy	2
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Minim/Masonry
Interior Wall 2	Plywood Panel
Interior Floor 1	Concr-Finished
Interior Floor 2	Inlaid Sht Gds
Heating Fuel	Oil
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	STORE/SHOP MDL-94
Total Rooms	
Total Bedrms	00
Total Baths	0
1st Floor Use:	322I
Heat/AC	NONE
Frame Type	MASONRY
Baths/Plumbing	AVERAGE
Ceiling/Wall	SUS-CEIL/MN WL
Rooms/Prtns	AVERAGE
Wall Height	10
% Comn Wall	0

(http://images.vgsi.com/photos/SalemNHPhotos//\01\00\42/19.jpg)

Building Layout



(http://images.vgsi.com/photos/SalemNHPhotos//Sketches/6364

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	4,886	4,886
		4,886	4,886

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code	3220
Description	STORE/SHOP MDL-94
Zone	CA
Neighborhood	600
Alt Land Appr	No
Category	

Land Line Valuation

Size (Acres)	0.3
Frontage	0
Depth	0
Assessed Value	$282,300
Appraised Value	$282,300

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Assessed Value	Bldg #
PAV1	PAVING-ASPHALT			4300 S.F.	$3,200	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2017	$145,500	$282,300	$427,800
2016	$145,500	$282,300	$427,800
2015	$140,700	$261,800	$402,500

Assessment			
Valuation Year	Improvements	Land	Total
2017	$145,500	$282,300	$427,800
2016	$145,500	$282,300	$427,800
2015	$140,700	$261,800	$402,500

Appendix C

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GREEN ENVIRONMENTAL, INC.

Personnel Accreditation

Accredited Inspector

Name: Luke Krzyzewski

Accreditation Number: AI100882

Signature: _____

Licensure:

Appendix D

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Asbestos Identification Laboratory

165 New Boston St., Ste 227
Woburn, MA 01801
781-932-9600

Web: www.asbestosidentificationlab.com
Email: mikemanning@asbestosidentificationlab.com

Batch: 49441

NVLAP®
Lab Code: 200919-0

December 30, 2019

Luke Krzyzewski
Green Environmental Inc.
296 C Weymouth St.
Rockland, MA 02370

Project Name:	*4 South Broadway, Salem, NH*
Project Number:	#19039
Date Sampled:	2019-12-11
Work Received:	2019-12-23
Work Analyzed:	2019-12-30

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

Dear Luke Krzyzewski,

Asbestos Identification Laboratory has completed the analysis of the samples from your office for the above referenced project. The information and analysis contained in this report have been generated using the EPA /600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials. Materials or products that contain more than 1% of any kind or combination of asbestos are considered an asbestos containing building material as determined by the EPA. This Polarized Light Microscope (PLM) technique may be performed either by visual estimation or point counting. Point counting provides a determination of the area percentage of asbestos in a sample. If the asbestos is estimated to be less than 10% by visual estimation of friable material, the determination may be repeated using the point counting technique. The results of the point counting supersede visual PLM results. Results in this report only relate to the items tested. This report may not be used by the customer to claim product endorsement by NVLAP or any other U.S. Government Agency.
Laboratory results represent the analysis of samples as submitted by the customer. Information regarding sample location, description, area, volume, etc., was provided by the customer. Asbestos Identification Laboratory is not responsible for sample collection activities or analytical method limitations. Unless notified in writing to return samples, Asbestos Identification Laboratory discards customer samples after 30 days. Samples containing subsamples or layers will be analyzed separately when applicable. Reports are kept at Asbestos Identification Laboratory for three years. This report shall not be reproduced, except in full, without the written consent of Asbestos Identification Laboratory.

- NVLAP Lab Code: 200919-0
- Massachusetts Certification License: AA000208
- State of Connecticut, Department of Public Health Approved Environmental Laboratory Registration Number: PH-0142
- State of Maine, Department of Environmental Protection Asbestos Analytical Laboratory License Number: LB-0078(Bulk) LA-0087(Air)
- State of Rhode Island and Providence Plantations. Department of Health Certification: AAL-121
- State of Vermont, Department of Health Environmental Health License AL934461

Thank you Luke Krzyzewski for your business.

Michael Manning
Owner/Director

December 30, 2019

Luke Krzyzewski
Green Environmental Inc.
296 C Weymouth St.
Rockland, MA 02370

Project Name: *4 South Broadway, Salem, NH*
Project Number: #19039
Date Sampled: 2019-12-11
Work Received: 2019-12-23
Work Analyzed: 2019-12-30

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
1A / 547754	12" White Floor Tile	1st Floor, Unit 4	gray	Non-Fibrous 100	None Detected
1B / 547755	12" White Floor Tile	1st Floor, Unit 4	gray	Non-Fibrous 100	None Detected
2A / 547756	12" White Floor Tile Mastic	1st Floor, Unit 4	black	Non-Fibrous 97	**Detected** **Chrysotile 3**
2B / 547757	12" White Floor Tile Mastic	1st Floor, Unit 4			Not Analyzed
3A / 547758	12" Gray Floor Tile	1st Floor, Unit 4	gray	Non-Fibrous 100	None Detected
3B / 547759	12" Gray Floor Tile	1st Floor, Unit 4	gray	Non-Fibrous 100	None Detected
4A / 547760	12" Gray Floor Tile Adhesive	1st Floor, Unit 4	clear	Non-Fibrous 100	None Detected
4B / 547761	12" Gray Floor Tile Adhesive	1st Floor, Unit 4	clear	Non-Fibrous 100	None Detected
5A / 547762	Gray Cove Base	1st Floor, Unit 4	gray	Non-Fibrous 100	None Detected
5B / 547763	Gray Cove Base	1st Floor, Unit 4	gray	Non-Fibrous 100	None Detected
6A / 547764	Gray Cove Base Adhesive	1st Floor, Unit 4	tan	Non-Fibrous 100	None Detected
6B / 547765	Gray Cove Base Adhesive	1st Floor, Unit 4	tan	Non-Fibrous 100	None Detected
7A / 547766	Drywall	1st Floor, Unit 4	multi	Cellulose 15 Non-Fibrous 85	None Detected
7B / 547767	Drywall	1st Floor, Unit 4	gray	Cellulose 2 Non-Fibrous 98	None Detected

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
8A 547768	Joint Compound	1st Floor, Unit 4	white	Non-Fibrous 100	None Detected
8B 547769	Joint Compound	1st Floor, Unit 4	white	Non-Fibrous 100	None Detected
8C 547770	Joint Compound	1st Floor, Unit 4	white	Non-Fibrous 100	None Detected
9A 547771	Textured Ceiling	1st Floor, Unit 4	white	Non-Fibrous 100	None Detected
9B 547772	Textured Ceiling	1st Floor, Unit 4	white	Non-Fibrous 100	None Detected
9C 547773	Textured Ceiling	1st Floor, Unit 4	white	Non-Fibrous 100	None Detected
10A 547774	Panel Adhesive	1st Floor, Unit 4	tan	Non-Fibrous 100	None Detected
10B 547775	Panel Adhesive	1st Floor, Unit 4	tan	Non-Fibrous 100	None Detected
11A 547776	Panel Material	1st Floor, Unit 4	brown	Cellulose 95 Non-Fibrous 5	None Detected
11B 547777	Panel Material	1st Floor, Unit 4	brown	Cellulose 95 Non-Fibrous 5	None Detected
12A 547778	Interior Window Glaze	1st Floor, Unit 4	gray	Non-Fibrous 98	**Detected** **Chrysotile 2**
12B 547779	Interior Window Glaze	1st Floor, Unit 4			Not Analyzed
13A 547780	1x1 Smooth Ceiling Tile	1st Floor, Unit 4	brown	Cellulose 98 Non-Fibrous 2	None Detected
13B 547781	1x1 Smooth Ceiling Tile	1st Floor, Unit 4	brown	Cellulose 98 Non-Fibrous 2	None Detected
14A 547782	Gray Door Caulking	Exterior, Unit 4, East Side	gray	Non-Fibrous 100	None Detected
14B 547783	Gray Door Caulking	Exterior, Unit 4, East Side	gray	Non-Fibrous 100	None Detected
15A 547784	Field/Flash Material	Exterior, Unit 4, Roof	black	Cellulose 50 Non-Fibrous 48	**Detected** **Chrysotile 2**
15B 547785	Field/Flash Material	Exterior, Unit 4, Roof			Not Analyzed

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
16A 547786	Yellow Carpet Mastic	1st Floor, Unit 6, Main Area	brown	Cellulose 2 Non-Fibrous 98	None Detected
16B 547787	Yellow Carpet Mastic	1st Floor, Unit 6, Main Area	brown	Cellulose 2 Non-Fibrous 98	None Detected
17A 547788	White Floor Leveler	1st Floor, Unit 6, Main Area	white	Non-Fibrous 100	None Detected
17B 547789	White Floor Leveler	1st Floor, Unit 6, Main Area	white	Non-Fibrous 100	None Detected
18A 547790	Gray Floor Leveler	1st Floor, Unit 6, Main Area	gray	Fiberglass 2 Non-Fibrous 98	None Detected
18B 547791	Gray Floor Leveler	1st Floor, Unit 6, Main Area	gray	Fiberglass 2 Non-Fibrous 98	None Detected
19A 547792	9" Gray Floor Tile	1st Floor, Unit 6, Area 1	gray	Non-Fibrous 98	**Detected** **Chrysotile 2**
19B 547793	9" Gray Floor Tile	1st Floor, Unit 6, Area 1			Not Analyzed
20A 547794	9" Gray Floor Tile Mastic	1st Floor, Unit 6, Area 1	black	Non-Fibrous 98	**Detected** **Chrysotile 2**
20B 547795	9" Gray Floor Tile Mastic	1st Floor, Unit 6, Area 1			Not Analyzed
21A 547796	12" White Floor Tile	1st Floor, Unit 6, Area 1	white	Non-Fibrous 100	None Detected
21B 547797	12" White Floor Tile	1st Floor, Unit 6, Area 1	white	Non-Fibrous 100	None Detected
22A 547798	12" White Floor Tile Mastic	1st Floor, Unit 6, Area 1	yellow	Non-Fibrous 100	None Detected
22B 547799	12" White Floor Tile Mastic	1st Floor, Unit 6, Area 1	yellow	Non-Fibrous 100	None Detected
23A 547800	12" Green Floor Tile	1st Floor, Unit 6, Area 1	gray	Non-Fibrous 100	None Detected
23B 547801	12" Green Floor Tile	1st Floor, Unit 6, Area 1	gray	Non-Fibrous 100	None Detected
24A 547802	12" Green Floor Tile Mastic	1st Floor, Unit 6, Area 1	yellow	Non-Fibrous 100	None Detected
24B 547803	12" Green Floor Tile Mastic	1st Floor, Unit 6, Area 1	yellow	Non-Fibrous 100	None Detected

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
25A 547804	Ceramic Floor Tile Adhesive	1st Floor, Unit 6, Bath	brown	Non-Fibrous 100	None Detected
25B 547805	Ceramic Floor Tile Adhesive	1st Floor, Unit 6, Bath	brown	Non-Fibrous 100	None Detected
26A 547806	Ceramic Floor Tile Grout	1st Floor, Unit 6, Bath	tan	Non-Fibrous 100	None Detected
26B 547807	Ceramic Floor Tile Grout	1st Floor, Unit 6, Bath	tan	Non-Fibrous 100	None Detected
27A 547808	Drywall	1st Floor, Unit 6, Main Area	multi	Cellulose 5 Non-Fibrous 95	None Detected
27B 547809	Drywall	1st Floor, Unit 6, Area 5	multi	Cellulose 10 Non-Fibrous 90	None Detected
28A 547810	Joint Compound	1st Floor, Unit 6, Main Area	white	Non-Fibrous 100	None Detected
28B 547811	Joint Compound	1st Floor, Unit 6, Main Area	white	Non-Fibrous 100	None Detected
28C 547812	Joint Compound	1st Floor, Unit 6, Area 1	white	Non-Fibrous 100	None Detected
28D 547813	Joint Compound	1st Floor, Unit 6, Bath	white	Non-Fibrous 100	None Detected
28E 547814	Joint Compound	1st Floor, Unit 6, Area 3	white	Non-Fibrous 100	None Detected
29A 547815	Drywall	1st Floor, Unit 6, Back Area	multi	Cellulose 20 Non-Fibrous 80	None Detected
29B 547816	Drywall	1st Floor, Unit 6, Back Area	multi	Cellulose 30 Non-Fibrous 70	None Detected
30A 547817	Joint Compound	1st Floor, Unit 6, Back Area	white	Non-Fibrous 100	None Detected
30B 547818	Joint Compound	1st Floor, Unit 6, Back Area	white	Non-Fibrous 100	None Detected
30C 547819	Joint Compound	1st Floor, Unit 6, Back Area	white	Non-Fibrous 100	None Detected
31A 547820	2x4 Smooth Ceiling Tile	1st Floor, Unit 6, Main Area	brown	Cellulose 98 Non-Fibrous 2	None Detected
31B 547821	2x4 Smooth Ceiling Tile	1st Floor, Unit 6, Main Area	brown	Cellulose 98 Non-Fibrous 2	None Detected

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
32A 547822	2x4 Fissure Dot Ceiling Tile	1st Floor, Unit 6, Bath	gray	Mineral Wool 20 Cellulose 70 Non-Fibrous 10	None Detected
32B 547823	2x4 Fissure Dot Ceiling Tile	1st Floor, Unit 6, Bath	gray	Mineral Wool 20 Cellulose 70 Non-Fibrous 10	None Detected
33A 547824	Window Caulking	1st Floor, Unit 6, Area 1	white	Non-Fibrous 100	None Detected
33B 547825	Window Caulking	1st Floor, Unit 6, Area 1	white	Non-Fibrous 100	None Detected
34A 547826	Black Window Glaze	1st Floor, Unit 6, Main Area	black	Non-Fibrous 100	None Detected
34B 547827	Black Window Glaze	1st Floor, Unit 6, Main Area	black	Non-Fibrous 100	None Detected
35A 547828	Interior Window Glaze	1st Floor, Unit 6, Back Area	multi	Non-Fibrous 100	None Detected
35B 547829	Interior Window Glaze	1st Floor, Unit 6, Back Area	multi	Non-Fibrous 100	None Detected
36A 547830	Window Caulking	Exterior , Unit 6, West Side	multi	Non-Fibrous 97	**Detected** **Chrysotile 3**
36B 547831	Window Caulking	Exterior , Unit 6, West Side			Not Analyzed
37A 547832	Exterior Window Glaze	Exterior , Unit 6, South Side	gray	Non-Fibrous 98	**Detected** **Chrysotile 2**
37B 547833	Exterior Window Glaze	Exterior , Unit 6, South Side			Not Analyzed
38A 547834	Black Chimney Flash	Exterior , Unit 6, Roof	black	Non-Fibrous 97	**Detected** **Chrysotile 3**
38B 547835	Black Chimney Flash	Exterior , Unit 6, Roof			Not Analyzed
39A 547836	Roof Paper	Exterior , Unit 6, Roof	black	Fiberglass 5 Non-Fibrous 95	None Detected
39B 547837	Roof Paper	Exterior , Unit 6, Roof	black	Fiberglass 5 Non-Fibrous 95	None Detected
40A 547838	Asphalt Shingle	Exterior , Unit 6, Roof	black	Fiberglass 20 Non-Fibrous 80	None Detected
40B 547839	Asphalt Shingle	Exterior , Unit 6, Roof	black	Fiberglass 25 Non-Fibrous 75	None Detected

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
41A 547840	Field/Flash Material	Exterior , Unit 6, Roof	black	Cellulose 60 Non-Fibrous 40	**Detected** **Chrysotile < 1**
41B 547841	Field/Flash Material1st Floor, Unit	Exterior , Unit 6, Roof	black	Cellulose 60 Non-Fibrous 40	**Detected** **Chrysotile < 1**

Monday 30 December

Analyzed by: Erik Gorgas

End of Report

Batch: 49441

Due 12-30-19

Client: Green Environmental

Address:

Project Site & #: 4 Soester Broadway

Phone / email address:

Contact:

Relinquish by/date:

Received by/date: 12-23-19

# of Samples Received: 88

CHAIN OF CUSTODY

EPA/600/R-93/116

Asbestos Identification Lab

165 New Boston St.
Suite 227
Woburn, MA 01801
(781)932-9600
www.asbestosidentificationlab.com

Date Sampled:

BATCH# 49441

Rev 06/16

Page 1 of

Turnaround Time		Sample Method	
☐	Less 3 Hrs	☒	Bulk
☐	Same Day	☐	Soil
☐	Next Day	☐	Wipe
☒	~~Two~~ Day	☐	Point Count

Stop on 1st Positive? (Yes/No)

Notify Method: Mail/E-Mail/Verbal

Analyzed By:

Date: 12/30/19

Temp in Celsius = RT

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
547754	1A	Material	0	gy	~	gr	~	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															100
								Anthophyllite															
								Actinolite															
55	1B	Material	0	gy	~	gr	~	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															100
								Anthophyllite															
								Actinolite															
56	2A	Material	0	blk	gy	gr	~	Chrysotile	3	w	=	+	C	~	(nw)	(nw)							
		Location						Amosite															
								Crocidolite															
								Tremolite															97
								Anthophyllite															
								Actinolite															

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = 22 / Material / Location	Stereo Scope					Asbestos Minerals	Optical Properties						RI		Non-Asbestos Percentage (%)						
			% of Asbestos	Color	Homogeneity	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	=	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
57	2B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
58	3A	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
59	3B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
60	4A	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
61	4B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															

Dup

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = 21 / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
62	5A	Material	0					Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
63	5B	Material	0					Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
64	6A	Material	0					Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
65	6B	Material	0					Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
66	7A	Material	0					Chrysotile															
								Amosite															
								Crocidolite												2			
		Location						Tremolite												2			
								Anthophyllite												15			85
								Actinolite															

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location (Temp in Celcius = 21)	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
67	7B	Material	0	gy	n	gran	y	Chrysotile											2				98
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
68	8A	Material	0	wh	y	gry	y	Chrysotile															100
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
69	8B	Material	0	wh	y	gry	y	Chrysotile															100
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
70	8C	Material	0	wh	y	gry	y	Chrysotile															100
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
71	9A	Material	0	wh	y	gry	y	Chrysotile															100
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = 21 / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
172	9B	Material	O	wh	y	sm	y	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															10
								Anthophyllite															
								Actinolite															
173	9C	Material	O	wh	y	sm	y	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															10
								Anthophyllite															
								Actinolite															
174	10A	Material	O	T	y	sm	w	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															10
								Anthophyllite															
								Actinolite															
175	10B	Material	O	T	y	sm	w	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															10
								Anthophyllite															
								Actinolite															
176	11A	Material	O	br	w	Rg		Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite											95				5
								Anthophyllite															
								Actinolite															

Temp in Celcius = 21

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
77	11B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															5
78	12A	Material						Chrysotile	2	W	=	+	C	N	(w)	(w)							
								Amosite															
								Crocidolite															
		Location						Tremolite															98
								Anthophyllite															
								Actinolite															
79	12B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															
								Actinolite															
80	13A	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															2
								Anthophyllite															
								Actinolite															
81	13B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															2
								Anthophyllite															
								Actinolite															

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Page 2 of ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = 22 Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ‖	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
82	14A	Material Location	0	gy	y	gr	~	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
83	14B	Material Location	0	gy	y	gr	~	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
84	15A	Material Location	0	brn	~	gr	~	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite	2	w	2	+	(	~	lw	lw			50				48
85	15B	Material Location	0					Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															
86	16A	Material Location	0	br	y	gr	~	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											2				98

DNA
EC

Temp in Celcius = 21

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope					Asbestos Minerals	Optical Properties						RI		Non-Asbestos Percentage (%)						
			% of Asbestos	Color	Homogeneity	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	=	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
87	16B	Material						Chrysotile															
								Amosite															
								Crocidolite											2				
		Location						Tremolite															98
								Anthophyllite											3				
								Actinolite															
88	17A	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															10
								Actinolite															
89	17B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															
								Anthophyllite															10
								Actinolite															
90	18A	Material						Chrysotile															
								Amosite									8						
								Crocidolite															
		Location						Tremolite															
								Anthophyllite									2						98
								Actinolite															
91	18B	Material						Chrysotile															
								Amosite									8						EC
								Crocidolite															
		Location						Tremolite															
								Anthophyllite									2						98
								Actinolite															

Page 9 of ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location (Temp in Celcius = [illegible])	% of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI ‖	RI ⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
[illegible]	19A	Material / Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile	[illegible]	[illegible]	[illegible]	+	[illegible]	[illegible]	[illegible]	[illegible]							98
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
93 [illegible]	19B	Material / Location						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
94 [illegible]	20A	Material / Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile	[illegible]	[illegible]	[illegible]	+	[illegible]	[illegible]	[illegible]	[illegible]							98
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
95 [illegible]	20B	Material / Location						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
96 [illegible]	21A	Material / Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile															100
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															

PNA (19B)

PNA (20B)

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = 21 / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
97	21B	Material	0	w	w	w		Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															w
								Anthophyllite															
								Actinolite															
98	22A	Material	0	y	g	w		Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															w
								Anthophyllite															
								Actinolite															
99	22B	Material	0	y	y	w		Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															w
								Anthophyllite															
								Actinolite															
00	23A	Material	0	w	w	w		Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															w
								Anthophyllite															
								Actinolite															
01	23B	Material	0	w	w	w		Chrysotile															
								Amosite															
								Crocidolite															
		Location						Tremolite															w
								Anthophyllite															
								Actinolite															

Temp in Celcius = 21

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope					Asbestos Minerals	Optical Properties							RI		Non-Asbestos Percentage (%)						
			% of Asbestos	Color	Homogeneity	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	=	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
02	24A	Material	0	y	y	sl	r	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															1w
								Anthophyllite															
								Actinolite															
03	24B	Material	0	y	y	sl	r	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															1w
								Anthophyllite															
								Actinolite															
04	25A	Material	0	br	y	sl	r	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															1w
								Anthophyllite															
								Actinolite															
05	25B	Material	0	br	y	sl	r	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															1w
								Anthophyllite															
								Actinolite															
06	26A	Material	0	T	y	sl	r	Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															1w
								Anthophyllite															
								Actinolite															

Page 12 of ______

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location (Temp in Celcius = 21)	% of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI ∥	RI ⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
07	26B	Material Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
08	27A	Material Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											2 5				95
09	27B	Material Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											R 10				90
10	28A	Material Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
10	28B	Material Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100

Page 13 of ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location (Temp in Celcius = [illegible])	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
12	28C	Material Location	0	wh/gy	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
13	28D	Material Location	0	wh/gy	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
14	28E	Material Location	0	wh/gy	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite															100
15	29A	Material Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											20				80
16	29B	Material Location	0	[illegible]	[illegible]	[illegible]	[illegible]	Chrysotile Amosite Crocidolite Tremolite Anthophyllite Actinolite											30				70

Temp in Celcius = 21

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope					Asbestos Minerals	Optical Properties						RI		Non-Asbestos Percentage (%)						
			% of Asbestos	Color	Homogeneity	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	=	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
17	30A	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location	0	wh	y	sl fry		Tremolite															100
								Anthophyllite															
								Actinolite															
18	30B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location	0	wh	y	sl fry		Tremolite															100
								Anthophyllite															
								Actinolite															
19	30C	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location	0	wh	y	sl fry		Tremolite															100
								Anthophyllite															
								Actinolite															
20	31A	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location	0	br	~	R	y	Tremolite											98				2
								Anthophyllite															
								Actinolite															
21	31B	Material						Chrysotile															
								Amosite															
								Crocidolite															
		Location	0	br	~	Ry		Tremolite											98				2
								Anthophyllite															
								Actinolite															

Temp in Celcius = 21

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
22	32A	Material	0	gy	~	F	y	Chrysotile															
		Location						Amosite															
								Crocidolite										2	P				
								Tremolite															
								Anthophyllite										2	~~P~~ 2				10 EC
								Actinolite															
23	32B	Material	0	gy	~	F	y	Chrysotile															
		Location						Amosite															
								Crocidolite										2	R				
								Tremolite															
								Anthophyllite										20	20				10
								Actinolite															
24	33A	Material	0	~~gy~~ wh	y	sm		Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															10 EC
								Actinolite															
25	33B	Material	0	wh	y	sm		Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															10
								Actinolite															
26	34A	Material	0	blk	y	sm		Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															10
								Actinolite															

Temp in Celcius = 21

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
27	34B	Material						Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
28	35A	Material						Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
29	35B	Material						Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
30	36A	Material						Chrysotile	3	3	2	+	C	2	[illegible]	[illegible]							
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
31	36B	Material						Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															

DM

Temp in Celcius = 87

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope					Asbestos Minerals	Optical Properties						RI		Non-Asbestos Percentage (%)						
			% of Asbestos	Color	Homogeneity	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	=	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
32	37A	Material						Chrysotile	2	W	=	+	C	~	low	low							
		Location	0	Wh	g	Sm	~	Amosite															
								Crocidolite															
								Tremolite															98
								Anthophyllite															
								Actinolite															
33	37B	Material						Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
34	38A	Material						Chrysotile	3	W	=	+	C	~	low	low							
		Location	0	Wh	g	Sm	~	Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															97
								Actinolite															
35	38B	Material						Chrysotile															
		Location						Amosite															
								Crocidolite															
								Tremolite															
								Anthophyllite															
								Actinolite															
36	39A	Material						Chrysotile															
		Location	0	Wh	~	Sm	~	Amosite															
								Crocidolite									8						
								Tremolite									5						95
								Anthophyllite															
								Actinolite															

DUST

DUST

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = 21 / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
37	39B	Material	C	blk	~	~	~	Chrysotile															
								Amosite															
								Crocidolite									8						
		Location						Tremolite															95
								Anthophyllite									5						
								Actinolite															
38	40A	Material	C	blk	~	~	~	Chrysotile															
								Amosite															
								Crocidolite									8						
		Location						Tremolite															20
								Anthophyllite									20						
								Actinolite															
39	40B	Material	C	blk	~	~	~	Chrysotile															
								Amosite															
								Crocidolite									2						
		Location						Tremolite															75
								Anthophyllite									25						
								Actinolite															
40	41A	Material	C	blk	~	~	~	Chrysotile	TR	~	=	+	C	~	low	low							
								Amosite															
								Crocidolite											2				
		Location						Tremolite															40
								Anthophyllite											60				
								Actinolite															
41	41B	Material	C	blk	~	~	~	Chrysotile	TR	~	=	+	C	~	low	low							
								Amosite															
								Crocidolite											2				
		Location						Tremolite															30
								Anthophyllite											60				
								Actinolite															

DUE Monday

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB Date: 12/11/2019 Page: 1 of 8

Project Address: 4 South Broadway, Salem, NH Project #: 19039 Inspector: Luke Krzyzewski

Contact: Luke K Analysis: PLM - Positive Stop TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com 88

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	1st	Unit 4	12" White Floor Tile	1A		-
			↓	1B		-
			12" White Floor Tile mastic	2A		-
			↓	2B		-
			12" Gray Floor Tile	3A		-
			↓	3B		-
			12" Gray Floor Tile Adhesive	4A		-
			↓	4B		-
			Gray Cove Base	5A		-
			↓	5B		-
			Gray Cove Base Adhesive	6A		-
			↓	6B		-

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples
	12/16/19	88		12/23/19		

296 Weymouth Street, Rockland MA 02370 - P: (617)479-0550 - F: (617) 479-5150

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB | Date: 12/11/2019 | Page: 2 of 8

Project Address: 4 South Broadway, Salem, NH | Project #: 19039 | Inspector: Luke Krzyzewski

Contact: Luke K | Analysis: PLM - Positive Stop | TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	1st	Unit 4	Drywall	7A		
			↓	7B		
			Joint Compound	8A		
			↓	8B		
			↓	8C		
			Textured Ceiling	9A		
			↓	9B		
			↓	9C		
			Panel Adhesive	10A		
			↓	10B		
			Panel Material	11A		
			↓	11B		

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples
		8				

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB Date: 12/11/2019 Page: 3 of 8

Project Address: 4 South Broadway, Salem, NH Project #: 19039 Inspector: Luke Krzyzewski

Contact: Luke K Analysis: PLM - Positive Stop TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	1st	Unit 4	Interior window Glaze	12A		-
↓	↓	↓	↓	12B		-
↓	↓	↓	1x1 Smooth Ceiling Tile	13A		-
↓	↓	↓	↓	13B		-
↓	Exterior	Unit 4 - East Side	Gray Door Caulking	14A		-
↓	↓	↓	↓	14B		-
↓	↓	Unit 4 - Roof	Field / Flash material	15A		-
↓	↓	↓	↓	15B		-
↓	1st	Unit 6 - Main Bed	Yellow Carpet Master	16A		-
↓	↓	↓	↓	16B		-
↓	↓	↓	White Floor Leveler	17A		-
↓	↓	↓	↓	17B		-

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB Date: 12/11/2019 Page: 4 of 8

Project Address: 4 South Broadway, Salem, NH Project #: 19039 Inspector: Luke Krzyzewski

Contact: Luke K Analysis: PLM - Positive Stop TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	1st	Unit 6 main Area	Gray Floor Leveler	18A		
		↓	↓	18B		
		Unit 6 Area 1	9" Gray Floor Tile	19A		
		↓	↓	19B		
			9" Gray Floor Tile Black mastic	20A		
			↓	20B		
			12" white Floor Tile	21A		
			↓	21B		
			12" white Floor Tile Mastic	22A		
			↓	22B		
			12" brown Floor Tile	23A		
↓	↓	↓	↓	23B		

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB Date: 12/11/2019 Page: 5 of 8

Project Address: 4 South Broadway, Salem, NH Project #: 19039 Inspector: Luke Krzyzewski

Contact: Luke K Analysis: PLM - Positive Stop TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	1st	Unit 6 - Area 1	12" Green Floor Tile mastic	24A		-
↓	↓	↓	↓	24B		-
		Unit 6 - Bath	Ceramic Floor Tile Adhesive	25A		-
		↓	↓	25B		-
			Ceramic Floor Tile Grout	26A		-
		↓	↓	26B		-
		Unit 6 - Main Area	Drywall	27A		-
		Unit 6 - Area 5	↓	27B		-
		Unit 6 - Main Area	Joint Compound	28A		-
		Unit 6 - Main Area	↓	28B		-
		Unit 6 - Area 1	↓	28C		-
↓	↓	Unit 6 - Bath	↓	28D		-

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB Date: 12/11/2019 Page: 6 of 8

Project Address: 4 South Broadway, Salem, NH Project #: 19039 Inspector: Luke Krzyzewski

Contact: Luke K Analysis: PLM - Positive Stop TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	1st	Unit 6 - Area 3	Joint Compound	28 E		—
		Unit 6 Back Area	Drywall	29A	Ceiling	—
		↓	↓	29B		—
		↑	Joint Compound	30 A		—
			↓	30B		—
		↓	↓	30C	↓	—
		Unit 6 - Main Area	2x4 Smooth Ceiling Tile	31A		—
		↓	↓	31B		—
		Unit 6 - Bath	2x4 Fissure Dot Ceiling Tile	32A		—
		↓	↓	32B		—
		Unit 6 - Area 1	Window Caulking	33A		—
↓	↓	↓	↓	33B		—

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB Date: 12/11/2019 Page: 7 of 8

Project Address: 4 South Broadway, Salem, NH Project #: 19039 Inspector: Luke Krzyzewski

Contact: Luke K Analysis: PLM - Positive Stop TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	1st	Unit 6 - main Area	Black window Glaze	34A		
		↓	↓	34B		
		Unit 6 - Bath Area	Interior window blaze	35A		
		↓	↓	35B		
	Exterior	Unit 6 - west Side	Window Caulking	36A	Wood frame	
		↓	↓	36B	↓	
		Unit 6 - South Side	Exterior window blaze	37A	Behind wood	
		↓	↓	37B		
		Unit 6 - Roof	Black Chimney Flash	38A		
		↓	↓	38B		
		↓	Roof Paper	39A		
		↓	↓	39B		

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples

GREEN ENVIRONMENTAL

Bulk Sampling Chain-of-Custody

Client: VHB Date: 12/11/2019 Page: 6 of 6

Project Address: 4 South Broadway, Salem, NH Project #: 19039 Inspector: Luke Krzyzewski

Contact: Luke K Analysis: PLM - Positive Stop TAT: 3 days

Email: lkrzyzewski@greenenvironmental.com

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
4 South Broadway	Exterior	Unit 6 - Roof	Asphalt Shingle	40A		-
↓	↓	↓	↓	40B		-
			Field Flash material	41A		-
↓	↓	↓	↓	41B		-

Relinquish By	Date	#Samples	Received By	Date	Time	# Samples

Appendix E

GREEN
ENVIRONMENTAL

Appendix E
Locations of the Identified Asbestos-Containing Materials
4 South Broadway
Salem, NH

Location	Material Description	Estimated Quantity
Unit 4		
Throughout	12” White Floor Tile Mastic	700 SF
Bath	Interior Window Glaze	1 Unit
Roof	Field/Flash Material	840 SF
Unit 6		
Room 1	9” Gray Floor Tile and Black Mastic	256 SF
Exterior - West Side	Window Caulking (on plywood)	70 LF
Exterior - West Side	Exterior Window Glaze	5 Units
Exterior - South Side	Exterior Window Glaze	12 Units
Exterior - North Side	Exterior Window Glaze	4 Units
Roof	Black Chimney Flash	10 SF
Roof	Field/Flash Material (Trace <1%)	950 SF

Notes:
1. SF = Square Feet
2. LF = Linear Feet
3. Unit = Each

Appendix F

GREEN
ENVIRONMENTAL

Titan Lead Testing, LLC

Titan Lead Testing, LLC
PO Box 760709
Melrose, MA 02176

Tel: 781-799-8763
Fax: 781-662-3300

December 31, 2019
Luke Krzyzewski
Green Environmental
296 Weymouth St., Unit C
Rockland, MA 02370

RE: Lead Paint Testing Results
4-6 South Broadway
Salem, New Hampshire

Dear Mr. Krzyzewski:

This report presents the results of testing for the presence of lead paint on interior painted at 4-6 South Broadway, Salem, New Hampshire. Representative of Titan Lead Testing (Titan), Mr. David Pesce performed the testing on December 12, 2019 and December 13, 2019. Mr. Pesce is manufacturer's-trained in the proper use and interpretation of results of the XRF Spectrum Analyzer. Mr. Pesce is also a New Hampshire Department of Health and Human Services licensed Lead Inspector and Risk Assessor (Lic # RA-00059).

Scope of Work

The purpose of the lead testing was to determine the lead content of various painted building substrates prior to renovation and demolition activities. Selected relevant accessible painted surfaces were tested by Titan. Concentrations of lead in paint were measured on site by portable XRF analysis.

Sampling Protocol

The lead content of painted surfaces was determined using a portable X-ray Fluorescence (XRF) Spectrum Analyzer (HEURESIS Pb200i; Serial # 1645). The XRF Spectrum Analyzer uses a radioactive source to excite the electrons of lead atoms (if present) in paints. As the lead atom electrons return to their normal state, they emit X-rays, which are counted by the XRF Spectrum Analyzer. This data is processed and the results are converted to milligrams of lead per square centimeter (mg/cm^2) of sampled surface area.

Results

The XRF testing results indicate that levels of lead on surfaces tested range from less than 0.1 mg/cm^2 (lower limit of quantification of the XRF) to 9.6 mg/cm^2. Renovation and demolition activities that impact surfaces where lead may be present require specific work practices and disposal requirements. A summary of the lead testing results is attached.

Recommendations

The employer of workers who disturb or remove lead paint must comply with OSHA Standard 29 CFR 1926.62 - Lead. This applies to all construction work, alteration, or repair, including painting, where an employee may be occupationally exposed to lead. This standard does not establish a minimum threshold for the lead content, below which an initial exposure assessment is not required. An initial exposure assessment is required for each renovation or demolition activity that will disturb lead. This standard also contains additional requirements concerning the disturbance or removal of lead.

Limitations

Lead paint testing was performed on representative building substrates in selected building areas. Additional lead-containing building substrates and components may be present in other building areas or hidden by floor, wall and ceiling finishes or otherwise may be inaccessible.

Lead paint testing was performed to determine the lead content of painted building components that may be impacted by renovation activities and should **not** be used to determine compliance with the New Hampshire Lead Paint Poisoning Prevention and Control Act (RSA 130-A)

Please call if you have any questions or require additional information.

Sincerely,

David Pesce

Attachment

ATTACHMENT

LEAD TESTING RESULTS BY XRF

Lead Paint Testing Results by XRF
4-6 South Broadway
Salem, New Hampshire
December 12-13, 2019

Room/Area	Location/Component	Color	Substrate	Results (mg/cm^2)
6 - Entryway	Wall	Beige	Gypsum	< 0.1
6 - Entryway	Railing	White	Wood	< 0.1
6 - Entryway	Door	Gray	Metal	< 0.1
6 - Entryway	Door Frame	Gray	Metal	0.2
6 - Entryway	Door	White	Wood	< 0.1
6 - Entryway	Door Casing	White	Wood	< 0.1
6 - Entryway	Cubbies	White	Wood	< 0.1
6 - Entryway	Baseboard	White	Wood	< 0.1
6 - Entryway	Lower Wall	Beige	Gypsum	< 0.1
6 - Entryway	Wall Trim	White	Wood	< 0.1
6 - Entryway	Window Sash	Gray	Metal	< 0.1
6 - Entryway	Ceiling	Beige	Plaster	< 0.1
6 - Entryway	Beam	Beige	Wood	< 0.1
6 - Main Room	Wall	Beige	Gypsum	< 0.1
6 - Main Room	Door	White	Wood	< 0.1
6 - Main Room	Door Casing	White	Wood	< 0.1
6 - Main Room	Lower Wall	White	Wood	< 0.1
6 - Main Room	Floor	Gray	Concrete	< 0.1
6 - Main Room	Step	Beige	Wood	< 0.1
6 - Main Room	Door	White	Metal	< 0.1
6 - Main Room	Door Frame	White	Metal	< 0.1
6 - Main Room	Ceiling	White	Gypsum	< 0.1
6 - Front Office	Wall	Beige	Gypsum	< 0.1
6 - Front Office	Floor	Green	Concrete	0.2
6 - Front Office	Door	White	Wood	< 0.1
6 - Front Office	Door Casing	White	Wood	< 0.1
6 - Front Office	Window Sash	White	Wood	2.8
6 - Front Office	Window Casing	White	Wood	< 0.1
6 - Front Office	Ceiling	Beige	Gypsum	< 0.1
6 - Front Office	Beam	Beige	Wood	< 0.1
6- Bathroom	Wall	Beige	Gypsum	< 0.1
6- Bathroom	Ceiling	White	Gypsum	< 0.1
6- Bathroom	Door	White	Wood	< 0.1
6- Bathroom	Door Casing	White	Wood	< 0.1
6- Bathroom	Baseboard	White	Wood	< 0.1
6- Bathroom	Cabinet	Brown	Wood	< 0.1
6- Boiler Room	Column	White	Wood	5.6

Lead Paint Testing Results by XRF
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Room/Area	Location/Component	Color	Substrate	Results (mg/cm^2)
6- Boiler Room	Door Frame	White	Wood	5.1
4 - Front Room	Wall	Beige	Gypsum	< 0.1
4 - Front Room	Lower Wall	Brown	Gypsum	< 0.1
4 - Front Room	Cabinet	Beige	Wood	< 0.1
4 - Front Room	Column	Beige	Metal	< 0.1
4 - Front Room	Ceiling	White	Gypsum	< 0.1
4 - Front Room	Shelf	Red	Metal	< 0.1
4 - Front Room	Door	Gray	Metal	< 0.1
4 - Front Room	Door Frame	Gray	Metal	< 0.1
4 - Front Room	Window Sash	Gray	Metal	< 0.1
4 - Back Room	Wall	White	Gypsum	< 0.1
4 - Back Room	Wall Panel	White	Vinyl	< 0.1
4 - Back Room	Wall	Gray	Metal	< 0.1
4 - Back Room	Sink	Gray	Metal	< 0.1
4 - Back Room	Door	White	Wood	< 0.1
4 - Back Room	Door Casing	White	Wood	< 0.1
4 - Back Room	Shelf	White	Wood	0.2
4 - Back Room	Pipe Chase	White	Wood	0.2
4 - Back Room	Shelf	White	Metal	< 0.1
4 - Back Room	Ceiling Tile	White	Wood	< 0.1
4 - Bathroom	Wall	Brown	Wood	< 0.1
4 - Bathroom	Wall Panel	White	Wood	< 0.1
4 - Bathroom	Door	White	Wood	< 0.1
4 - Bathroom	Door Casing	White	Wood	< 0.1
4 - Bathroom	Door Jamb	White	Wood	< 0.1
4 - Bathroom	Window Sash	Brown	Metal	< 0.1
4-6 Exterior	Brick	White	Brick	< 0.1
4-6 Exterior	Window Sill	Brown	Concrete	< 0.1
4-6 Exterior	Window Frame	Brown	Metal	< 0.1
4-6 Exterior	Window Sash	Gray	Metal	< 0.1
4-6 Exterior	Lower Trim	White	Wood	< 0.1
4-6 Exterior	Window Sill	Brown	Metal	< 0.1
4-6 Exterior	Blacks	White	Concrete	< 0.1
4-6 Exterior	Door	Gray	Metal	< 0.1
4-6 Exterior	Door Frame	Gray	Metal	< 0.1
4-6 Exterior	Door Casing	Brown	Wood	4.6
4-6 Exterior	Foundation	White	Concrete	0.3

Lead Paint Testing Results by XRF
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Room/Area	Location/Component	Color	Substrate	Results (mg/cm^2)
4-6 Exterior	Window Sill	Brown	Wood	6.6
4-6 Exterior	Window Sash	Brown	Wood	6.1
4-6 Exterior	Window Casing	Brown	Wood	3.9
4-6 Exterior	Upper Trim	Brown	Wood	8.4
4-6 Exterior	Blocks	Brown	Concrete	0.2
4-6 Exterior	Foundation	Brown	Concrete	< 0.1
4-6 Exterior	Window Casing	Brown	Wood	8.6
4-6 Exterior	Conduit	Brown	Metal	0.3
4-6 Exterior	Upper Trim	Black	Wood	9.6
4-6 Exterior	Window Casing	Green	Wood	5.4
4-6 Exterior	T-111 Paneling	Brown	Wood	< 0.1
4-6 Exterior	Door	White	Metal	< 0.1
4-6 Exterior	Door Casing	White	Wood	< 0.1
4-6 Exterior	Column	Brown	Wood	< 0.1

- <0.1 = less than the limit of quantification of the XRF.
- mg/cm^2 = milligrams of lead per square centimeter of sampled surface area.

Appendix G

GREEN
ENVIRONMENTAL

Appendix G Locations of the Regulated Materials 4 South Broadway Salem, NH		
Location	**Material Description**	**Quantity**
Unit 4		
Throughout	4’ Fluorescent Tubes	40
	PCB/Non-PCB Containing Ballasts	16
	Exit Sign	1
Unit 6		
Throughout	4’ Fluorescent Tubes	54
	8’ Fluorescent Tubes	20
	PCB/Non-PCB Containing Ballasts	25
	Emergency Light/Exit Sign	2