



**ASBESTOS IDENTIFICATION SURVEY  
AND HAZARDOUS MATERIALS ASSESSMENT  
HALLOWELL FIRE DEPARTMENT BUILDING  
HALLOWELL, MAINE**

*Prepared for:*

**E.S. Coffin Engineering and Surveying, Inc.  
432 Cony Road, P.O. Box 4687  
Augusta Maine 04330**

*Prepared by:*

**Summit Environmental Consultants, Inc.  
8 Harlow Street, Suite 4A  
Bangor, Maine 04401**

**September 4, 2009  
Project 16937**

## TABLE of CONTENTS

| <b>Section</b>   | <b>Page</b> |
|--|-------------|
| 1.0 INTRODUCTION.....  | 1           |
| 2.0 ASBESTOS-CONTAINING BUILDING MATERIALS.....              | 3           |
| 2.1 OBSERVATIONS AND FINDINGS .....                          | 3           |
| 2.2 RECOMMENDATIONS .....                                    | 4           |
| 2.3 BUDGETARY COST ESTIMATES.....                            | 7           |
| 3.0 POLYCHLORINATED BIPHENYL (PCB) AND UNIVERSAL WASTE ..... | 8           |
| 4.0 LEAD-BASED PAINT.....                                    | 9           |
| 5.0 REPORT CERTIFICATION.....                                | 11          |

### TABLES

|         |   |
|---------|---|
| Table 1 | Asbestos-Containing Material                |
| Table 2 | Estimated ACM Abatement Costs               |
| Table 3 | Universal Waste                             |
| Table 4 | Estimated Universal Waste Remediation Costs |

### FIGURES

|          |                                |
|----------|--------------------------------|
| Figure 1 | Basement Floor Plan - Asbestos |
| Figure 2 | First Floor Plan - Asbestos    |
| Figure 3 | Second Floor Plan - Asbestos   |

### APPENDICES

|            |  |
|------------|--|
| Appendix A | PLM Analytical Results                         |
| Appendix B | Photograph Log – Asbestos-Containing Materials |
| Appendix C | LBP Determination Report                       |

**ASBESTOS IDENTIFICATION SURVEY  
AND HAZARDOUS MATERIALS ASSESSMENT  
HALLOWELL FIRE DEPARTMENT BUILDING  
HALLOWELL, MAINE**

**1.0 INTRODUCTION**

Summit Environmental Consultants, Inc. (Summit) was retained by the E.S. Coffin Engineering and Surveying, Inc. (Coffin) to conduct an asbestos identification survey and hazardous materials assessment for the Hallowell Fire Department building located at 124 Second Street in Hallowell, Maine. The objective of the field survey was to locate and identify asbestos-containing materials (ACM), Lead-based Paint (LBP), hazardous materials and Universal Wastes present in the interior and on the exterior of the building.

**ASBESTOS SURVEY**

Mr. Dennis Kingman (Summit), an asbestos inspector licensed in the State of Maine, performed the field survey on August 13, 2009. During the survey, the inspector visually identified interior and exterior suspect ACM and collected bulk samples of suspect materials in accordance with applicable state and federal regulations.

Bulk samples of suspect ACM collected during the survey by Summit were submitted to EMSL-NJ (EMSL) of Westmont, New Jersey for analysis. The method used to analyze the bulk samples collected during this survey was the recommended U.S. Environmental Protection Agency (EPA) procedure of Polarized Light Microscopy (PLM) with dispersion staining. Samples were analyzed at the EMSL laboratory, which is certified to perform asbestos analysis by both the National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association (AIHA). Laboratory analytical results and completed chain of custody forms are included as Appendix A.

As with any scientific study, an asbestos identification survey is subject to a variety of limitations. Limitations to be considered in interpreting the results of the survey performed on these buildings include the following:

- An asbestos identification survey may not be able to identify all ACM present throughout a facility.
- The upper portions of the tower (from the second floor to the roof) and the roof of the building were not accessible and were not included in this assessment.
- Pipe insulation may be present within wall chases and above solid ceilings. Access to wall cavities and above the ceiling could not be gained without significant damage to the building.
- Budgetary cost estimates presented in this report provide a budget for removal of ACM identified during the survey. These estimates do not include material replacement costs or regulatory agency notification fees. Regulatory agency notification fees associated with this project will range from \$100.00 to \$200.00 depending phasing and project schedule. Actual abatement costs may vary depending upon the abatement methods utilized.

## **UNIVERSAL AND HAZARDOUS WASTES**

Universal Wastes, as defined by the Universal Waste Rules promulgated by the EPA, do not require removal; however, if equipment or materials containing Universal Wastes are removed, handling and disposal requirements need to be considered. Universal Wastes typically encountered during building renovation/demolition include PCB-containing lighting ballasts, fluorescent light bulbs, sodium vapor lights, emergency light batteries and mercury containing switches.

The building was evaluated for the presence of Universal Wastes and suspect PCB-containing equipment. Light fixtures, where present, should be removed and individual ballasts evaluated to confirm the presence or absence of PCBs. Non-PCB light ballasts will be clearly labeled as not containing PCBs. If no such labeling is present, the ballast should be treated as PCB-containing.

Suspected Universal Wastes also include mercury in the older thermostats, gauges and fluorescent light bulbs. Should mercury-containing thermostats require removal, these units (or the individual mercury switches) must be placed in appropriate containers (e.g. drums) and disposed as a Universal Waste.

Fluorescent light bulbs removed for disposal are considered a Universal Waste. Bulbs must be removed and packaged for handling and proper disposal. Other potential universal wastes include batteries from emergency lighting units.

Budgetary costs estimates for the removal and disposal of hazardous materials from the interior of the facility have been developed. Fluorescent lights are measured for disposal by the linear foot of light bulb. Budgetary cost estimates are based on approximate quantities of materials present in the facility and unit costs provided by environmental remediation contractors. Estimated mandays are for a hazardous waste contractor to package wastes for shipment. This estimate assumes that light fixtures will be removed intact by others and placed in a secure location for use by the hazardous waste contractor. These costs do not include a contingency.

## **LEAD BASED PAINT**

A lead-based paint (LBP) determination of the building was conducted by Atlantic Environmental Services (AES) a Summit subconsultant, on August 13, 2009. Deborah A. Kasik, a MEDEP certified Lead Risk Assessor, performed the determination. The determination was conducted in accordance with the applicable protocols described in the MEDEP Chapter 242: Lead Management Regulations (Section 7) utilizing a portable X-Ray Fluorescence (XRF) Lead Paint Analyzer (RMD LPA-1), which non-destructively tests for the presence of LBP. A copy of the LBP determination report is included as Appendix B.

Cost estimates presented in this report do not include LBP abatement.

## 2.0 ASBESTOS-CONTAINING BUILDING MATERIALS

### 2.1 OBSERVATIONS AND FINDINGS

The Hallowell Fire Department building is located on 124 Second Street in Hallowell, Maine. The building consists of a two-story masonry structure with a two story wood frame addition. A tower is located at the rear of the original structure; however, only the basement and first floor portions to the tower were accessible. The building currently houses the Hallowell Fire Department, and the Hallowell Food Pantry. In addition, a vacant apartment is located on the second floor.

During the survey, the asbestos inspector visually identified and quantified interior suspect ACM and collected bulk samples of suspect materials in accordance with applicable state and federal regulations. Suspect ACM sampled included pipe and pipe fitting insulation, floor tile and associated floor tile adhesive, sheet flooring, stair tread material, sub-flooring material, wall and ceiling materials, blown-in insulation, and felt paper under exterior siding.

Fifty-three (53) bulk samples of suspect ACM building materials were collected during the field survey for laboratory analysis. Quantity estimates of identified ACM were based upon field observations.

The following sections of this report contain a brief description of the building and a summary of the types of ACM identified. An inventory of identified ACM and their locations is included in Table 1. Locations of identified ACM are presented in Figures 1 through 3. Photographs of identified ACM are included in Appendix B.

#### **INTERIOR**

The building consists of a Basement, First Floor, Second Floor, Tower and Attic.

#### **BASEMENT**

The Basement consists of mechanical space, unfinished storage spaces and the Hallowell Food Pantry. Suspect ACM identified on the interior of the Basement includes plaster debris on the floor.

ACM was not identified by laboratory analysis in the Basement.

#### **FIRST FLOOR**

The First Floor consists of the garage, an office, stairwells, the first floor of the Tower (which has been converted into a restroom), utility closets, and storage rooms. Suspect ACM identified on the interior of the First Floor includes pipe insulation and associated pipe fitting insulation above cellulose panel ceilings, floor tile, associated floor tile adhesive and felt paper underlayment under carpet, and sheetrock wall and ceiling material.

ACM identified by laboratory analysis on the First Floor includes:

- Pipe insulation and associated pipe fitting insulation above ceilings; and
- Floor tile and associated adhesive under carpet.

## SECOND FLOOR

The Second Floor consists of a central meeting room, fire department living area, stairwell, and a separate apartment suite. Suspect ACM identified on the interior of the Second Floor includes five types of sheet flooring, sub-flooring material, sheetrock wall and ceiling material, skim coat on exterior brick walls, fibrous wall board and stair tread material.

Material identified as ACM by laboratory analysis on the Second Floor includes:

- One type of sheet flooring.

## ATTIC

The Attic consists of an open, unfinished space. Suspect ACM observed within the interior of the Attic includes blown-in insulation. ACM was not identified by laboratory analysis in the Attic

## TOWER

The Tower is located at the back of the back of the original structure and is wood construction. The lower levels of the Tower (Basement and First Floor) were accessible during the assessment; however, the upper portions were not accessible. Suspect ACM was not observed in the accessible areas of the Tower.

## EXTERIOR

The Exterior of the building consists of brick walls on the original portion of the building and wood clapboard siding on the addition. Asphalt shingle roofing is present on the roof. Suspect ACM identified on the exterior of the building includes felt paper under wood clapboard siding and asphalt roofing materials.

ACM was not identified by laboratory analysis on the exterior of the building; however, the roof was not accessible at the time of the assessment. As a result, the existing roofing material(s) are assumed to be asbestos-containing until such a time as sampling and laboratory analysis is performed.

## **2.2 RECOMMENDATIONS**

The following recommendations are based on observations of the asbestos inspector and applicable state and federal regulations:

1. The ACM flooring present on the First and Second Floors was observed to be in good condition.

2. ACM pipe insulation present within the First Floor exhibited areas of localized damage and is recommended for removal.
3. ACM present throughout the building should be managed under a comprehensive Operations and Maintenance (O & M) program.
4. Those ACM impacted by future renovation/demolition must be removed prior to commencement of these activities.
5. ACM abatement must be performed using approved methods in accordance with applicable regulations established by the U.S. Environmental Protection Agency (USEPA), Occupational Safety and Health Administration (OSHA) and Maine Department of Environmental Protection (MEDEP). These recommendations are based upon observations of conditions at the time of this survey.

**TABLE 1**

**ASBESTOS-CONTAINING BUILDING MATERIALS  
HALLOWELL FIRE DEPARTMENT BUILDING**

| <b>Location</b>                         | <b>Asbestos-containing Material (ACM) Type</b>   | <b>Estimated Quantity of ACM</b> | <b>Recommendation</b>             |
|---|--|----------------------------------|-----------------------------------|
| <b>FIRST FLOOR</b>                      |  |                                  |                                   |
| Office                                  | 9-inch by 9-inch Brown Floor Tile w/Non-ACM Adhesive and Non-ACM Sub-Flooring Under Carpet | 175 Square Feet (SF)             | Operation and Maintenance (O & M) |
| Storage Room A                          | Pipe Insulation Above Ceiling  | 3 Linear Feet (LF)               | Remove                            |
| Storage Room B                          | Pipe Insulation Above Ceiling  | 1 LF                             | Remove                            |
| <b>SECOND FLOOR</b>                     |  |                                  |                                   |
| Bathroom – Second Floor Apartment Suite | Sheet Flooring   | 65 SF                            | O & M                             |

Note: Until sampled and determined otherwise by laboratory analysis, the roof materials are assumed to be ACM.

**2.3 BUDGETARY COST ESTIMATES**

The following cost estimates have been prepared to provide a budget for removal of ACM identified during the survey. These estimates do not include the roof, material replacement costs or regulatory agency notification fees. Regulatory agency notification fees associated with this project will range from \$100.00 to \$200.00 depending phasing and project schedule. Actual abatement costs may vary depending upon the abatement methods utilized.

**TABLE 2**  
**ESTIMATED**  
**ACM ABATEMENT COSTS**  
**HALLOWELL FIRE DEPARTMENT BUILDING**  
**HALLOWELL, MAINE**

| <b>ACM</b>   | <b>ESTIMATED QUANTITY</b> | <b>UNIT COST</b> | <b>ESTIMATED COST</b> |
|--|---------------------------|------------------|-----------------------|
| 9-inch by 9-inch Floor Tile w/ Non-ACM Adhesive Under Carpet | 175 Square Feet (SF)      | \$8/SF           | \$1,400.              |
| Sheet Flooring   | 65 SF                     | \$10/SF          | \$650.                |
| Pipe Insulation  | 4 Linear Feet (LF)        | \$100/ LF        | \$400.                |
| <b>TOTAL</b>   |                           |                  | <b>\$2,450.</b>       |

Summit has estimated an asbestos abatement project duration of three to four working days of eight-hour contractor shifts, using a two-person crew.

**3.0 HAZARDOUS MATERIALS and UNIVERSAL WASTE**

During the walkthrough evaluation, Summit evaluated the building for the presence of hazardous wastes and Universal Wastes. Hazardous waste materials were not observed; however, the following (Table 3) Universal Wastes observed/assumed to be present:

**TABLE 3**

**ESTIMATED QUANTITIES OF IDENTIFIED  
UNIVERSAL WASTE/HAZARDOUS WASTE  
HALLOWELL FIRE DEPARTMENT BUILDING  
HALLOWELL, MAINE**

| HAZARDOUS MATERIALS              | QUANTITY |
|----------------------------------|----------|
| Fluorescent Light Tubes (4 foot) | 13 Each  |
| Fluorescent Light Tubes (8 foot) | 22 Each  |
| PCB Light Ballasts               | 29 Each  |
| Mercury-containing Thermostats   | 1 Each   |
| Emergency Light Batteries        | 3 Each   |

Budgetary costs estimates for the removal and disposal of Universal Wastes from the interior of the facility have been developed and are presented in Table 4.

**TABLE 4**

**ESTIMATED  
UNIVERSAL/HAZARDOUS WASTE REMOVAL COSTS  
HALLOWELL FIRE DEPARTMENT BUILDING  
HALLOWELL, MAINE**

|                                   |   |               |
|-----------------------------------|---|---------------|
| Labor and Overhead                | One Man-day @ \$500/Manday              | \$500.        |
| Fluorescent Light Bulbs           | 228 Linear Feet (LF) @<br>\$0.30/LF     | \$69.         |
| PCB Light Ballasts                | 29 @ \$1.00/pound (lb) @ 5<br>lbs. Each | \$145.        |
| Mercury-containing<br>Thermostats | 1 @ \$15.00/lb @ 1 lb each              | \$15.         |
| Emergency Light Batteries         | 3 @ \$30.00 each                        | \$90.         |
| <b>Estimated Cost</b>             |   | <b>\$819.</b> |

#### 4.0 LEAD-BASED PAINT

The determination as to whether or not a component contains LBP is based upon the MEDEP Lead Management Regulations (Chapter 424). The MEDEP defines a component as lead-containing if the XRF result is greater than or equal to ( $\geq$ ) 1.0 milligrams per square centimeter ( $\text{mg}/\text{cm}^2$ ).

The following lead-containing components were determined to be present on the interior of the building:

##### BASEMENT

- Wood walls
- Doors (to pantry and back storage)
- Cellar window frames
- Ceiling mounted heater

##### FIRST FLOOR

- Doors and associated door trim
- Wood walls – Closet
- Window sills, casings, sashes and exterior trim
- Baseboards
- Lower paneled walls (Storage Room)

##### SECOND FLOOR

- Attic access door
- Doors and associated door trim
- Window sills, casings, sashes and exterior trim
- Upper walls – kitchen
- Cabinets
- Heater units
- Glazing on kitchen sink

##### SECOND FLOOR - Apartment

- Window sills, casings, sashes and exterior trim
- Heater units
- Transom window sash
- Walls (behind paneling)
- Ceiling (above ceiling tile)

##### EXTERIOR

- Upper trim, fascia and soffit
- Window exterior sashes and trim
- Doors and door trim (including metal headers)

- Clapboard siding
- Corner boards
- Tower (all components)

A copy of the LBP Determination Report is included as Appendix C.

Under current federal and state regulations, LBP does not have to be removed from a structure prior to renovation or removal of specific building components. However, the following regulations/requirements must be followed in relation to disturbance of LBP during renovation or renovation.

1. OSHA 29 CFR 1926.62 requires that an employer protect their personnel from exposure to lead dust during construction or renovation. While primarily an issue for the renovation or abatement contractor, the Owner is responsible to notify all parties involved in the work of the knowledge or presumption that painted surfaces may contain lead.
2. MEDEP requires that building components with LBP be disposed of in a licensed Construction and Renovation (C&D) Landfill, and that a manifest documenting the disposal of this material be provided to the Owner.
3. If LBP is removed from surfaces prior to renovation, the resulting waste must be analyzed using a toxicity characteristic leaching procedure (TCLP) test to determine whether the residue is considered a hazardous waste. If TCLP results indicate levels of leachable lead in excess of 5 parts per million (ppm), the resulting waste must be disposed of as a hazardous material.

## 5.0 REPORT CERTIFICATION

The asbestos identification survey was conducted in accordance with the MEDEP Chapter 425 Asbestos Management Regulations promulgated May 29, 2004. This report was prepared and reviewed by Summit Environmental Consultants, Inc. for the sole use of E.S. Coffin Engineering and Surveying, Inc. and its constituents and should not be reproduced without full, written authorization from the E.S. Coffin Engineering and Surveying, Inc.

*Inspector:*



---

Dennis B. Kingman, Jr. CHMM

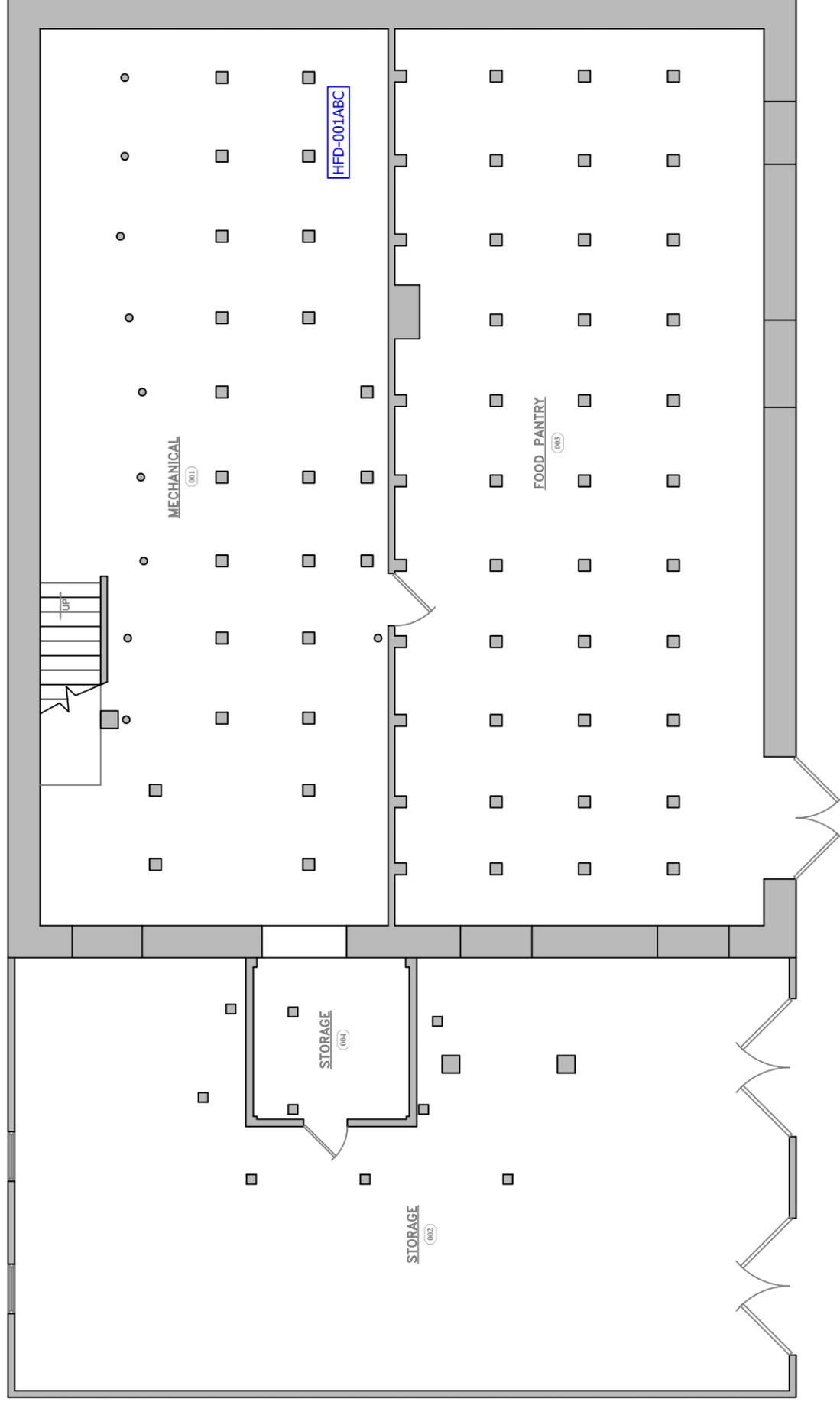
AI-0034  
Maine DEP License No.

## *Figures*

*Figure 1*

**BASEMENT FLOOR PLAN - ASBESTOS**

| LEGEND  |  |
|---|--|
|  | = ACM FLOOR TILE WITH NON-ACM ADHESIVE UNDER CARPET        |
|  | = ACM SHEET FLOORING                                       |
|  | = ACM PIPE INSULATION                                      |
|  | = SAMPLE NUMBER AND LOCATION TESTING POSITIVE FOR ASBESTOS |
|  | = SAMPLE NUMBER AND LOCATION TESTING NEGATIVE FOR ASBESTOS |
| HFD-005BC   | = SAMPLE NUMBER AND LOCATION NOT ANALYZED (POSITIVE STOP)  |



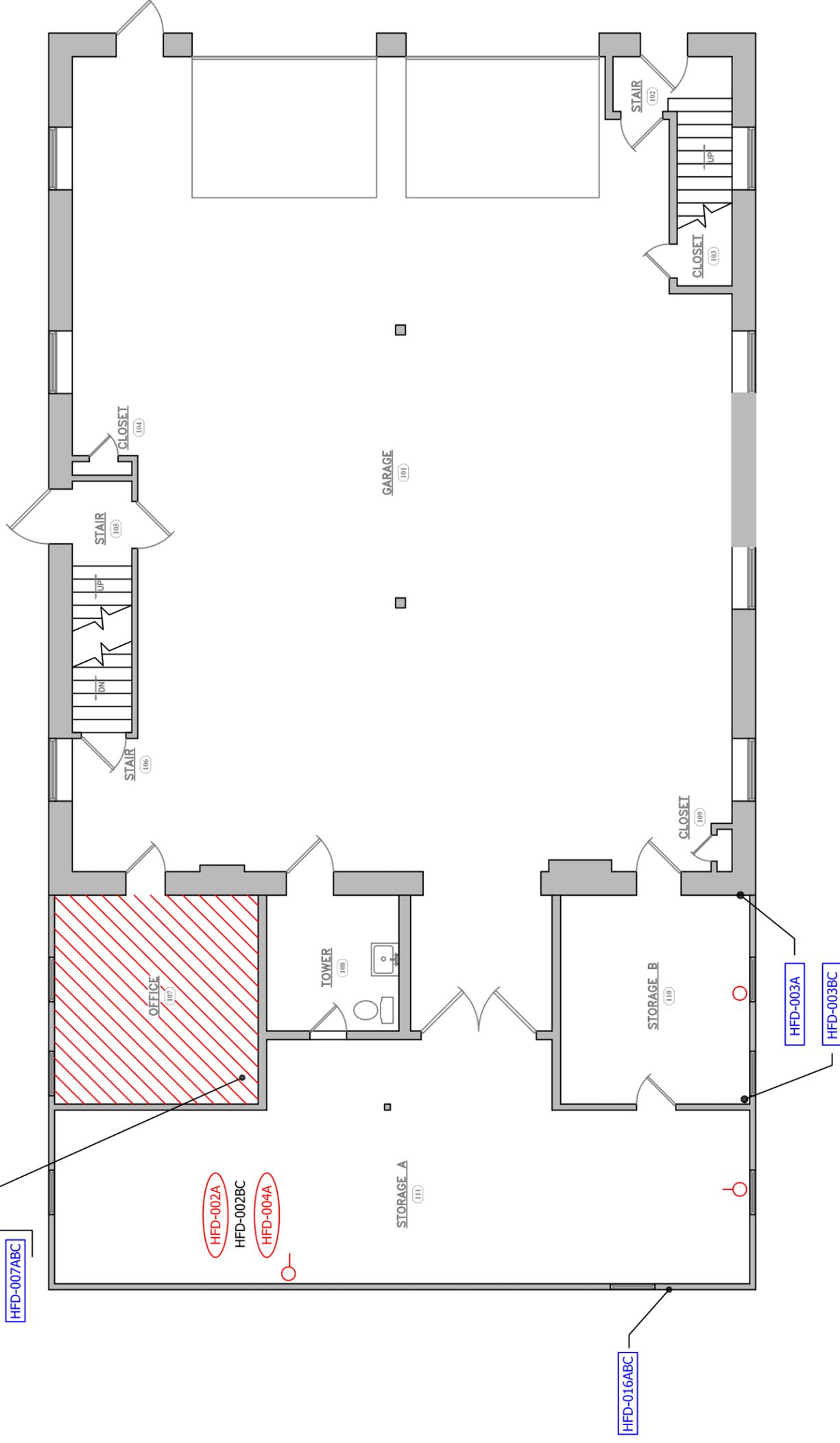
|                               |  |
|-------------------------------|--|
| CLIENT:<br>COFFIN ENGINEERING | PROJECT:<br>ASBESTOS IDENTIFICATION SURVEY<br>HALLOWELL FIRE STATION |
| TITLE:<br>BASEMENT FLOOR PLAN |  |
| DRAWN:<br>B.N.C.              | SCALE:<br>1/8" = 1'0"  |
| DESIGN:<br>----               | DATE:<br>08/21/09  |
| APPROVED:<br>D.B.K.           | FIGURE:<br>1   |
| PROJECT NO.:<br>16937         | FILE NO.:<br>16937   |

**SUMMIT**  
 ENVIRONMENTAL CONSULTANTS, INC.  
 8 HARLOW STREET, SUITE 4A  
 BANGOR, MAINE 04401

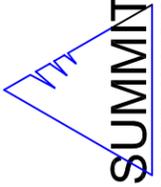
*Figure 2*

**FIRST FLOOR PLAN - ASBESTOS**

HFD-005A  
HFD-005BC  
HFD-006ABC  
HFD-007ABC



| LEGEND  |  |
|---|--|
|  | = ACM FLOOR TILE WITH NON-ACM ADHESIVE UNDER CARPET        |
|  | = ACM SHEET FLOORING                                       |
|  | = ACM PIPE INSULATION                                      |
|  | = SAMPLE NUMBER AND LOCATION TESTING POSITIVE FOR ASBESTOS |
|  | = SAMPLE NUMBER AND LOCATION TESTING NEGATIVE FOR ASBESTOS |
| HFD-005BC   | = SAMPLE NUMBER AND LOCATION NOT ANALYZED (POSITIVE STOP)  |

|   |  |                       |                     |
|---|--|-----------------------|---------------------|
| CLIENT:<br>COFFIN ENGINEERING   | PROJECT:<br>ASBESTOS IDENTIFICATION SURVEY<br>HALLOWELL FIRE STATION | SCALE:<br>1/8" = 1'0" | FIGURE:<br><b>2</b> |
|  | TITLE:<br>FIRST FLOOR PLAN   | DRAWN:<br>B.N.C.      |                     |
| PROJECT NO.:<br>16937   | APPROVED:<br>D.B.K.  | DATE:<br>08/21/09     | FILE NO.:<br>16937  |
| ENVIRONMENTAL CONSULTANTS, INC.<br>8 HARLOW STREET, SUITE 4A<br>BANGOR, MAINE 04401 |  |                       |                     |

*Figure 3*

**SECOND FLOOR PLAN - ASBESTOS**

HFD-008ABC  
HFD-009ABC  
HFD-010ABC

HFD-011ABC

LIVING ROOM  
(205)

CHIEF'S ROOM  
(202)

HALL  
(203)

TOWER

BATHROOM  
(204)

KITCHEN  
(201)

STAIR  
(207)

HFD-018A  
(in Attic)

MEETING ROOM  
(206)

BEDROOM  
(210)

CLOSET  
(215)

CLOSET  
(217)

BEDROOM  
(209)

DINING ROOM  
(212)

HFD-015A  
HFD-015BC

BATHROOM  
(213)

HFD-013ABC  
HFD-014ABC

KITCHEN  
(211)

BEDROOM  
(208)

CLOSET  
(216)

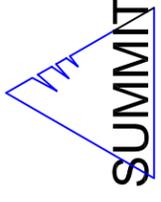
HFD-012ABC

HFD-019ABC

STAIR  
(214)

LEGEND

-  = ACM FLOOR TILE WITH NON-ACM ADHESIVE UNDER CARPET
-  = ACM SHEET FLOORING
-  = ACM PIPE INSULATION
-  = SAMPLE NUMBER AND LOCATION TESTING POSITIVE FOR ASBESTOS
-  = SAMPLE NUMBER AND LOCATION TESTING NEGATIVE FOR ASBESTOS
-  = SAMPLE NUMBER AND LOCATION NOT ANALYZED (POSITIVE STOP)

|  |  |                     |                     |
|--|--|---------------------|---------------------|
| CLIENT:<br>COFFIN ENGINEERING  | PROJECT:<br>ASBESTOS IDENTIFICATION SURVEY<br>HALLOWELL FIRE STATION | SCALE: 1/8" = 1'0"  |                     |
|  <p><b>SUMMIT</b><br/>ENVIRONMENTAL CONSULTANTS, INC.<br/>8 HARLOW STREET, SUITE 4A<br/>BANGOR, MAINE 04401</p> | TITLE:<br>SECOND FLOOR PLAN  | DRAWN:<br>B.N.C.    | DATE: 08/21/09      |
|  | PROJECT NO.: 16937   | DESIGN:<br>----     | FILE NO.: 16937     |
|  |  | APPROVED:<br>D.B.K. | FIGURE:<br><b>3</b> |

## *Appendices*

## *Appendix A*

### **POLARIZED LIGHT MICROSCOPY (PLM) ANALYTICAL DATA**



**EMSL Analytical, Inc.**  
 107 Haddon Ave., Westmont, NJ 08108  
 Phone: (856) 858-4800 Fax: (856) 858-4960 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

Attn: **Dennis Kingman**  
**Summit Environmental Consultants, Inc.**  
**8 Harlow Street**  
**Suite 4A**  
**Bangor, ME 04401**

Customer ID: SUMM78  
 Customer PO:  
 Received: 08/15/09 10:00 AM  
 EMSL Order: 040920596

Fax: (207) 262-9080 Phone: (207) 262-9040  
 Project: **HALLOWELL FIRE DEPARTMENT 16937**

EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample                            | Description                  | Appearance                              | Non-Asbestos  |                         | Asbestos                     |
|-----------------------------------|------------------------------|---|---------------|-------------------------|------------------------------|
|                                   |                              |   | % Fibrous     | % Non-Fibrous           | % Type                       |
| HFD-001A<br><i>040920596-0001</i> | BASEMENT                     | Brown<br>Fibrous<br>Homogeneous         | 5% Cellulose  | 95% Non-fibrous (other) | None Detected                |
| HFD-001B<br><i>040920596-0002</i> | BASEMENT                     | Brown<br>Fibrous<br>Homogeneous         | 5% Cellulose  | 95% Non-fibrous (other) | None Detected                |
| HFD-001C<br><i>040920596-0003</i> | BASEMENT                     | Brown<br>Fibrous<br>Homogeneous         | 5% Cellulose  | 95% Non-fibrous (other) | None Detected                |
| HFD-002A<br><i>040920596-0004</i> | FIRST FLOOR<br>ABOVE CEILING | Brown/White<br>Fibrous<br>Homogeneous   | 30% Cellulose | 30% Non-fibrous (other) | 40% Chrysotile               |
| HFD-002B<br><i>040920596-0005</i> | FIRST FLOOR<br>ABOVE CEILING |   |               |                         | Stop Positive (Not Analyzed) |
| HFD-002C<br><i>040920596-0006</i> | FIRST FLOOR<br>ABOVE CEILING |   |               |                         | Stop Positive (Not Analyzed) |
| HFD-003A<br><i>040920596-0007</i> | FIRST FLOOR<br>ADDITION      | Brown/White<br>Fibrous<br>Heterogeneous | 5% Cellulose  | 95% Non-fibrous (other) | None Detected                |

Analyst(s)

*Dave Poitras (47)*

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. The test results meet all NELAC requirements unless otherwise specified.  
 Samples analyzed by EMSL Analytical, Inc. Westmont 107 Haddon Ave., Westmont NJ AIHA IHLAP 100194, NVLAP Lab Code 101048-0, NYS ELAP 10872, NJ DEP 04006



**EMSL Analytical, Inc.**  
 107 Haddon Ave., Westmont, NJ 08108  
 Phone: (856) 858-4800 Fax: (856) 858-4960 Email: [westmontaslab@EMSL.com](mailto:westmontaslab@EMSL.com)

Attn: **Dennis Kingman**  
**Summit Environmental Consultants, Inc.**  
**8 Harlow Street**  
**Suite 4A**  
**Bangor, ME 04401**

Customer ID: SUMM78  
 Customer PO:  
 Received: 08/15/09 10:00 AM  
 EMSL Order: 040920596

Fax: (207) 262-9080 Phone: (207) 262-9040  
 Project: **HALLOWELL FIRE DEPARTMENT 16937**

EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample                            | Description             | Appearance                      | Non-Asbestos  |                         | Asbestos                     |
|-----------------------------------|-------------------------|---------------------------------|---------------|-------------------------|------------------------------|
|                                   |                         |                                 | % Fibrous     | % Non-Fibrous           | % Type                       |
| HFD-003B<br><i>040920596-0008</i> | FIRST FLOOR ADDITION    | Various Fibrous Heterogeneous   | 30% Cellulose | 70% Non-fibrous (other) | None Detected                |
| HFD-003C<br><i>040920596-0009</i> | FIRST FLOOR ADDITION    | Various Fibrous Heterogeneous   | 30% Cellulose | 70% Non-fibrous (other) | None Detected                |
| HFD-004A<br><i>040920596-0010</i> | PIPE FITTING INSULATION | Brown/White Fibrous Homogeneous |               | 70% Non-fibrous (other) | 30% Chrysotile               |
| HFD-005A<br><i>040920596-0011</i> | FIRST FLOOR OFFICE      | Brown Fibrous Homogeneous       |               | 80% Non-fibrous (other) | 20% Chrysotile               |
| HFD-005B<br><i>040920596-0012</i> | FIRST FLOOR OFFICE      |                                 |               |                         | Stop Positive (Not Analyzed) |
| HFD-005C<br><i>040920596-0013</i> | FIRST FLOOR OFFICE      |                                 |               |                         | Stop Positive (Not Analyzed) |
| HFD-006A<br><i>040920596-0014</i> | FIRST FLOOR OFFICE      | Black Fibrous Homogeneous       | 30% Cellulose | 70% Non-fibrous (other) | None Detected                |

Analyst(s)

*Dave Poitras (47)*

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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Attn: **Dennis Kingman**  
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**8 Harlow Street**  
**Suite 4A**  
**Bangor, ME 04401**

Customer ID: SUMM78  
 Customer PO:  
 Received: 08/15/09 10:00 AM  
 EMSL Order: 040920596

Fax: (207) 262-9080 Phone: (207) 262-9040  
 Project: **HALLOWELL FIRE DEPARTMENT 16937**

EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample  | Description        | Appearance                            | Non-Asbestos  |                         | Asbestos      |
|---|--------------------|---------------------------------------|---------------|-------------------------|---------------|
|   |                    |                                       | % Fibrous     | % Non-Fibrous           | % Type        |
| HFD-006B<br><i>040920596-0015</i>             | FIRST FLOOR OFFICE | Black<br>Fibrous<br>Homogeneous       | 30% Cellulose | 70% Non-fibrous (other) | None Detected |
| HFD-006C<br><i>040920596-0016</i>             | FIRST FLOOR OFFICE | Black<br>Fibrous<br>Homogeneous       | 30% Cellulose | 70% Non-fibrous (other) | None Detected |
| HFD-007A<br><i>040920596-0017</i>             | FIRST FLOOR OFFICE | Brown/Black<br>Fibrous<br>Homogeneous | 70% Cellulose | 30% Non-fibrous (other) | None Detected |
| HFD-007B<br><i>040920596-0018</i>             | FIRST FLOOR OFFICE | Brown/Black<br>Fibrous<br>Homogeneous | 70% Cellulose | 30% Non-fibrous (other) | None Detected |
| felt only, some tile in felt was not included |                    |                                       |               |                         |               |
| HFD-007C<br><i>040920596-0019</i>             | FIRST FLOOR OFFICE | Brown/Black<br>Fibrous<br>Homogeneous | 70% Cellulose | 30% Non-fibrous (other) | None Detected |
| HFD-008A<br><i>040920596-0020</i>             | SECOND FLOOR       | Brown/Red<br>Fibrous<br>Heterogeneous | 30% Cellulose | 70% Non-fibrous (other) | None Detected |
| HFD-008B<br><i>040920596-0021</i>             | SECOND FLOOR       | Brown/Red<br>Fibrous<br>Heterogeneous | 30% Cellulose | 70% Non-fibrous (other) | None Detected |

Analyst(s)

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**Bangor, ME 04401**

Customer ID: SUMM78  
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 Received: 08/15/09 10:00 AM  
 EMSL Order: 040920596

Fax: (207) 262-9080 Phone: (207) 262-9040  
 Project: **HALLOWELL FIRE DEPARTMENT 16937**

EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample                            | Description  | Appearance                              | Non-Asbestos |               | Asbestos  |
|-----------------------------------|--------------|---|--------------|---------------|---|
|                                   |              |   | % Fibrous    | % Non-Fibrous | % Type  |
| HFD-008C<br><i>040920596-0022</i> | SECOND FLOOR | Brown/Red<br>Fibrous<br>Heterogeneous   | 30%          | Cellulose     | 70% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-009A<br><i>040920596-0023</i> | SECOND FLOOR | Brown<br>Fibrous<br>Homogeneous         | 100%         | Cellulose     | 0% Non-fibrous (other)<br><b>None Detected</b>  |
| HFD-009B<br><i>040920596-0024</i> | SECOND FLOOR | Various<br>Fibrous<br>Homogeneous       | 100%         | Cellulose     | 0% Non-fibrous (other)<br><b>None Detected</b>  |
| HFD-009C<br><i>040920596-0025</i> | SECOND FLOOR | Various<br>Fibrous<br>Homogeneous       | 90%          | Cellulose     | 10% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-010A<br><i>040920596-0026</i> | SECOND FLOOR | Various<br>Fibrous<br>Heterogeneous     | 30%          | Cellulose     | 70% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-010B<br><i>040920596-0027</i> | SECOND FLOOR | Brown/Black<br>Fibrous<br>Heterogeneous | 30%          | Cellulose     | 70% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-010C<br><i>040920596-0028</i> | SECOND FLOOR | Various<br>Fibrous<br>Heterogeneous     | 30%          | Cellulose     | 70% Non-fibrous (other)<br><b>None Detected</b> |

Analyst(s)

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Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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 107 Haddon Ave., Westmont, NJ 08108  
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**8 Harlow Street**  
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**Bangor, ME 04401**

Customer ID: SUMM78  
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 EMSL Order: 040920596

Fax: (207) 262-9080 Phone: (207) 262-9040  
 Project: **HALLOWELL FIRE DEPARTMENT 16937**

EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample                            | Description                    | Appearance                             | Non-Asbestos              |                         | Asbestos      |
|-----------------------------------|--------------------------------|--|---------------------------|-------------------------|---------------|
|                                   |                                |  | % Fibrous                 | % Non-Fibrous           | % Type        |
| HFD-011A<br><i>040920596-0029</i> | SECOND FLOOR                   | Brown/Gray<br>Fibrous<br>Heterogeneous | 20% Cellulose             | 80% Non-fibrous (other) | None Detected |
| HFD-011B<br><i>040920596-0030</i> | SECOND FLOOR                   | Brown/Gray<br>Fibrous<br>Heterogeneous | 20% Cellulose             | 80% Non-fibrous (other) | None Detected |
| HFD-011C<br><i>040920596-0031</i> | SECOND FLOOR                   | Brown/Gray<br>Fibrous<br>Heterogeneous | 20% Cellulose             | 80% Non-fibrous (other) | None Detected |
| HFD-012A<br><i>040920596-0032</i> | SECOND FLOOR                   | Brown/White<br>Fibrous<br>Homogeneous  | 5% Hair                   | 95% Non-fibrous (other) | None Detected |
| HFD-012B<br><i>040920596-0033</i> | SECOND FLOOR                   | Brown/White<br>Fibrous<br>Homogeneous  | 5% Hair                   | 95% Non-fibrous (other) | None Detected |
| HFD-012C<br><i>040920596-0034</i> | SECOND FLOOR                   | Brown/White<br>Fibrous<br>Homogeneous  | 5% Hair                   | 95% Non-fibrous (other) | None Detected |
| HFD-013A<br><i>040920596-0035</i> | KITCHEN<br>SECOND FLOOR<br>APT | Various<br>Fibrous<br>Heterogeneous    | 30% Cellulose<br>5% Glass | 65% Non-fibrous (other) | None Detected |

Analyst(s)

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Fax: (207) 262-9080 Phone: (207) 262-9040  
 Project: **HALLOWELL FIRE DEPARTMENT 16937**

EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample                            | Description                    | Appearance                              | Non-Asbestos |                    | Asbestos  |
|-----------------------------------|--------------------------------|---|--------------|--------------------|---|
|                                   |                                |   | % Fibrous    | % Non-Fibrous      | % Type  |
| HFD-013B<br><i>040920596-0036</i> | KITCHEN<br>SECOND FLOOR<br>APT | Various<br>Fibrous<br>Heterogeneous     | 30%<br>5%    | Cellulose<br>Glass | 65% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-013C<br><i>040920596-0037</i> | KITCHEN<br>SECOND FLOOR<br>APT | Various<br>Fibrous<br>Heterogeneous     | 30%<br>5%    | Cellulose<br>Glass | 65% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-014A<br><i>040920596-0038</i> | KITCHEN<br>SECOND FLOOR<br>APT | Brown/White<br>Fibrous<br>Heterogeneous | 30%<br>5%    | Cellulose<br>Glass | 65% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-014B<br><i>040920596-0039</i> | KITCHEN<br>SECOND FLOOR<br>APT | Brown/White<br>Fibrous<br>Heterogeneous | 30%<br>5%    | Cellulose<br>Glass | 65% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-014C<br><i>040920596-0040</i> | KITCHEN<br>SECOND FLOOR<br>APT | Brown/White<br>Fibrous<br>Heterogeneous | 40%<br>5%    | Cellulose<br>Glass | 55% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-015A<br><i>040920596-0041</i> | BATHROOM,<br>2ND FLOOR APT     | Various<br>Fibrous<br>Heterogeneous     | 15%          | Cellulose          | 80% Non-fibrous (other)<br><b>5% Chrysotile</b> |
| HFD-015B<br><i>040920596-0042</i> | BATHROOM,<br>2ND FLOOR APT     |   |              |                    | <b>Stop Positive (Not Analyzed)</b>             |

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 Project: **HALLOWELL FIRE DEPARTMENT 16937**

EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample                     | Description                | Appearance                              | Non-Asbestos  |                         | Asbestos                     |
|----------------------------|----------------------------|---|---------------|-------------------------|------------------------------|
|                            |                            |   | % Fibrous     | % Non-Fibrous           | % Type                       |
| HFD-015C<br>040920596-0043 | BATHROOM,<br>2ND FLOOR APT |   |               |                         | Stop Positive (Not Analyzed) |
| HFD-016A<br>040920596-0044 | EXTERIOR<br>SIDING         | Brown/Black<br>Fibrous<br>Homogeneous   | 70% Cellulose | 30% Non-fibrous (other) | None Detected                |
| HFD-016B<br>040920596-0045 | EXTERIOR<br>SIDING         | Brown/Black<br>Fibrous<br>Homogeneous   | 70% Cellulose | 30% Non-fibrous (other) | None Detected                |
| HFD-016C<br>040920596-0046 | EXTERIOR<br>SIDING         | Brown/Black<br>Fibrous<br>Homogeneous   | 70% Cellulose | 30% Non-fibrous (other) | None Detected                |
| HFD-017A<br>040920596-0047 | SECOND FLOOR               | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected                |
| HFD-017B<br>040920596-0048 | SECOND FLOOR               | Brown/White<br>Fibrous<br>Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected                |
| HFD-017C<br>040920596-0049 | SECOND FLOOR               | Brown/White<br>Fibrous<br>Heterogeneous | 20% Cellulose | 80% Non-fibrous (other) | None Detected                |

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EMSL Proj:  
 Analysis Date: 8/19/2009

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

| Sample                            | Description                          | Appearance                              | Non-Asbestos |               | Asbestos  |
|-----------------------------------|--------------------------------------|---|--------------|---------------|---|
|                                   |                                      |   | % Fibrous    | % Non-Fibrous | % Type  |
| HFD-018A<br><i>040920596-0050</i> | ATTIC                                | Brown<br>Fibrous<br>Homogeneous         | 100%         | Cellulose     | 0% Non-fibrous (other)<br><b>None Detected</b>  |
| HFD-019A<br><i>040920596-0051</i> | KITCHEN<br>SECOND FLOOR<br>APARTMENT | Brown/White<br>Fibrous<br>Heterogeneous | 80%          | Cellulose     | 20% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-019B<br><i>040920596-0052</i> | KITCHEN<br>SECOND FLOOR<br>APARTMENT | Brown/White<br>Fibrous<br>Heterogeneous | 90%          | Cellulose     | 10% Non-fibrous (other)<br><b>None Detected</b> |
| HFD-019C<br><i>040920596-0053</i> | KITCHEN<br>SECOND FLOOR<br>APARTMENT | Brown/White<br>Fibrous<br>Heterogeneous | 80%          | Cellulose     | 20% Non-fibrous (other)<br><b>None Detected</b> |

CERT.# BA-0093

Analyst(s)

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040920596



|   |  |  |   |
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|---|--|--|---|

**Your Name:** Dennis Kingman **Project Manager:** DBK

**Company:** Summit Environmental Consultants, Inc.

**Street:** 8 HARLOW STREET, SUITE 4A

**City/State/Zip:** Bangor, Maine 04401

**Phone:** 207-262-9040 **Fax:** 207-262-9080 **Email:** dkingman@summitenv.com

**Project Name:** Hallowell Fire Department **Project #:** 16937

**Project Location:** Hallowell **Project State (US):** ME

**TURNAROUND TIME**

3 Hours  
  6 Hours  
  12 Hours  
  24 Hours  
  48 Hours  
  72 Hours  
  X 4 Days  
  5 Days  
  6-10 Days

**SAMPLE MATRIX**

Air  
  X Bulk  
  Soil  
  Wipe  
  Micro-Vac  
  Drinking Water  
  Wastewater  
  Chips  
  Other

**ASBESTOS ANALYSIS**

**PCM - Air**

- NIOSH 7400 (A) Issue 2: August 1994
- OSHA w/TWA

**TEM AIR**

- AHERA 40 CFR, Part 763 Subpart E
- NIOSH 7402 Issue 2
- EPA Level II

**PLM - Bulk**

- X EPA 600/R-93/116
- NY Stratified Point Count
- California Air Resource Board (CARB) 435
- NIOSH 9002
- PLM NOB (Gravimetric) NYS 198.1
- EPA Point Count (400 Points)
- EPA Point Count (1,000 Points)
- Standard Addition Point Count

**SOILS**

- EPA Protocol Qualitative
- EPA Protocol Quantitative
- EMSL MSD 9000 Method fibers/gram
- Superfund EPA 540-R097-028 (dust generation)

**TEM BULK**

- Drop Mount (Qualitative)
- Chatfield SOP-1988-02
- TEM NOB (Gravimetric) NY 198.4

**TEM MICROVAC**

- ASTM D 5755-95 (Quantitative)

**TEM WIPE**

- ASTM D-6480-99
- Qualitative

**TEM WATER**

- EPA 100.1
- EPA 100.2
- NYS 198.2
- Other: \_\_\_\_\_

**LEAD ANALYSIS**

**Flame Atomic Absorption**

- Wipe, SW846-7420  ASTM  non ASTM
- Soil, SW846-7420
- Air, NIOSH 7082
- Chips, SW846-7420 or AOAC 5.009 (974.02)
- Wastewater, SW 846-7420
- TCLP LEAD SW846-1311/7420

**Graphite Furnace Atomic Absorption**

- Air, NIOSH 7105
- Wastewater, SW846-7421
- Soil, SW846-7421
- Drinking Water, EPA 239.2

**ICP - Inductively Coupled Plasma**

- Wipe, SW846-6010  ASTM  non ASTM
- Soil, SW846-6010
- Air, NIOSH 7300

**MATERIALS ANALYSIS**

- Full Particle Identification
- Optical Particle Identification
- Dust Mites and Insect Fragments
- Particle Size & Distribution
- Product Comparison
- Paint Characterization
- Failure Analysis
- Corrosion Analysis
- Glove Box Containment Study
- Petrographic Examination of Concrete
- Portland Cement in Workplace Atmospheres (OSHA ID-143)
- Man Made Vitrous Fibers - MMVF's
- Synthetic Fiber Identification
- Other: \_\_\_\_\_

**MICROBIAL ANALYSIS**

**Air Samples**

- Mold & Fungi by Air O Cell
- Mold & Fungi by Agar Plate count & id
- Bacterial Count and Gram Stain
- Bacterial Count and Identification

**Water Samples**

- Total Coliforms, Fecal Coliforms
- Escherichia Coli, Fecal Streptococcus
- Legionella
- Salmonella
- Giardia and Cryptosporidium

**Wipe and Bulk Samples**

- Mold & Fungi - Direct Examination
- Mold & Fungi - (Culture follow up to direct examination if necessary)
- Mold & Fungi - Culture (Count & ID)
- Mold & Fungi - Culture (Count only)
- Bacterial Count & Gram Stain
- Bacterial Count & Identification (3 most prominent types)
- Other: \_\_\_\_\_

**IAQ ANALYSIS**

- Nuisance Dust (NIOSH 0500 & 0900)
- Airborne Dust (PM10, TSP)
- Silica Analysis by XRD  NIOSH 500
- HVAC Efficiency
- Carbon Black
- Airborne Oil Mist
- Other: \_\_\_\_\_

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

Additional Information/Comments/Instructions: Positive Stop

| Client Sample # (S) | HFD-001A  | HFD-019A       | TOTAL SAMPLE # | 53 |
|---------------------|-----------|----------------|----------------|----|
| Relinquished:       |           | Date: 07/14/09 | Time: 1600     |    |
| Received:           |           | Date:          | Time:          |    |
| Relinquished:       |           | Date:          | Time:          |    |
| Received:           | DM-9X-10A | Date:          | Time:          |    |



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 (212) 290-0058 Fax

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EMSL - NJ  
 107 Haddon Avenue  
 Westmont, NJ 08108  
 (800) 220-3675  
 (856) 858-4960 Fax

| SAMPLE NUMBER | SAMPLE DESCRIPTION/LOCATION                             | VOLUME Air (L) | Area (Inches sq.) |
|---------------|---|----------------|-------------------|
| HFD-001A      | Plaster debris - basement                               |                |                   |
| HFD-001B      | Plaster debris - basement                               |                |                   |
| HFD-001C      | Plaster debris - basement                               |                |                   |
| HFD-002A      | Pipe Insulation-first floor above ceiling               |                |                   |
| HFD-002B      | Pipe Insulation-first floor above ceiling               |                |                   |
| HFD-002C      | Pipe Insulation-first floor above ceiling               |                |                   |
| HFD-003A      | Sheet rock wall board - first floor addition            |                |                   |
| HFD-003B      | Sheet rock wall board - first floor addition            |                |                   |
| HFD-003C      | Sheet rock wall board - first floor addition            |                |                   |
| HFD-004A      | Pipe fitting insulation                                 |                |                   |
| HFD-005A      | 9 x 9 Brown floor tile under carpet- first floor office |                |                   |
| HFD-005B      | 9 x 9 Brown floor tile under carpet- first floor office |                |                   |
| HFD-005C      | 9 x 9 Brown floor tile under carpet- first floor office |                |                   |
| HFD-006A      | Adhesive associated with 005A                           |                |                   |
| HFD-006B      | Adhesive associated with 005B                           |                |                   |
| HFD-006C      | Adhesive associated with 005C                           |                |                   |
| HFD-007A      | Felt paper underlayment associated with 005A            |                |                   |
| HFD-007B      | Felt paper underlayment associated with 005B            |                |                   |
| HFD-007C      | Felt paper underlayment associated with 005C            |                |                   |
| HFD-008A      | Red pattern sheet flooring- second floor                |                |                   |
| HFD-008B      | Red pattern sheet flooring- second floor                |                |                   |
| HFD-008C      | Red pattern sheet flooring- second floor                |                |                   |
| HFD-009A      | Underlayment associated with 008A                       |                |                   |
| HFD-009B      | Underlayment associated with 008B                       |                |                   |
| HFD-009C      | Underlayment associated with 008C                       |                |                   |

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 107 Haddon Avenue  
 Westmont, NJ 08108  
 (800) 220-3675  
 (856) 858-4960 Fax

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| SAMPLE NUMBER | SAMPLE DESCRIPTION/LOCATION                         | VOLUME Air (L) | Area (Inches sq.) |
|---------------|---|----------------|-------------------|
| HFD-010A      | Black sheet flooring - second floor                 |                |                   |
| HFD-010B      | Black sheet flooring - second floor                 |                |                   |
| HFD-010C      | Black sheet flooring - second floor                 |                |                   |
| HFD-011A      | Gray Stair Tread - second floor                     |                |                   |
| HFD-011B      | Gray Stair Tread - second floor                     |                |                   |
| HFD-011C      | Gray Stair Tread - second floor                     |                |                   |
| HFD-012A      | Plaster skim coat on perimeter walls - second floor |                |                   |
| HFD-012B      | Plaster skim coat on perimeter walls - second floor |                |                   |
| HFD-012C      | Plaster skim coat on perimeter walls - second floor |                |                   |
| HFD-013A      | Speckled sheet floor- kitchen second floor apt      |                |                   |
| HFD-013B      | Speckled sheet floor- kitchen second floor apt      |                |                   |
| HFD-013C      | Speckled sheet floor- kitchen second floor apt      |                |                   |
| HFD-014A      | Sub floor associated with 013A                      |                |                   |
| HFD-014B      | Sub floor associated with 013A                      |                |                   |
| HFD-014C      | Sub floor associated with 013A                      |                |                   |
| HFD-015A      | Sheet floor - bathroom, 2 <sup>nd</sup> floor apt   |                |                   |
| HFD-015B      | Sheet floor - bathroom, 2 <sup>nd</sup> floor apt   |                |                   |
| HFD-015C      | Sheet floor - bathroom, 2 <sup>nd</sup> floor apt   |                |                   |
| HFD-016A      | Felt paper under exterior siding                    |                |                   |
| HFD-016B      | Felt paper under exterior siding                    |                |                   |
| HFD-016C      | Felt paper under exterior siding                    |                |                   |
| HFD-017A      | Sheetrock ceiling material - second floor           |                |                   |
| HFD-01B       | Sheetrock ceiling material - second floor           |                |                   |
| HFD-017C      | Sheetrock ceiling material - second floor           |                |                   |
| HFD-018A      | Blown-in insulation - Attic                         |                |                   |

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 FOR ANALYSIS BY  
 EMSL ANALYTICAL INC.

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 Received:  
 Relinquished:  
 Received:

*[Handwritten Signature]*

Date: 07/14/09 Time: 1600  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_



*Appendix B*

PHOTOGRAPH LOG



# PHOTOGRAPHIC LOG

**Client Name:**  
ES Coffin Engineering

**Project No.**  
16937

**Photo No. 1**

**Date:**  
August 13, 2009

**Site Location:**  
Hallowell Fire  
Department

**Description:**  
Asbestos pipe insulation  
located above ceiling in  
Storage Room A – First  
Floor.



**Photo No. 2**

**Date:**  
August 13, 2009

**Site Location:**  
Hallowell Fire  
Department

**Description:**  
Asbestos pipe insulation  
located above ceiling in  
Storage Room A – First  
Floor.





# PHOTOGRAPHIC LOG

**Client Name:**  
ES Coffin Engineering

**Project No.**  
16937

**Photo No. 3**

**Date:**  
August 13, 2009

**Site Location:**  
Hallowell Fire  
Department

**Description:**  
Asbestos pipe insulation  
present above  
sheetrock ceiling in  
Storage Room B - First  
Floor.



**Photo No. 4**

**Date:**  
August 13, 2009

**Site Location:**  
Hallowell Fire  
Department

**Description:**  
First Floor office  
showing asbestos floor  
tile under carpet.





# PHOTOGRAPHIC LOG

**Client Name:**  
ES Coffin Engineering

**Project No.**  
16937

**Photo No. 5**

**Date:**  
August 13, 2009

**Site Location:**  
Hallowell Fire  
Department

**Description:**  
Second Floor apartment  
rest room showing  
asbestos sheet flooring.



*Appendix C*

**LEAD-BASED PAINT  
DETERMINATION REPORT**

# AES

Atlantic Environmental Services  
PO Box 615  
West Kennebunk, Maine 04094  
Phone: (207) 604-2581  
Email: [dkasik@metrocast.net](mailto:dkasik@metrocast.net)

Lead-Based Paint XRF TESTING

## *Hallowell Fire Station Hallowell, Maine*



Prepared For:

Mr. Dennis Kingman  
Summit Environmental Consultants, Inc.  
8 Harlow Street, Suite 4A  
Bangor, Maine 04401

August 29, 2009

Dennis Kingman  
Summit Environmental Consultants, Inc.  
8 Harlow Street, Suite 4A  
Bangor, Maine 04401

RE: Lead-Based Paint XRF Testing  
Hallowell Fire Station, Hallowell, Maine  
AES Job #: 9-198

Dear Mr. Kingman:

*Atlantic Environmental Services* has completed the environmental lead-based paint testing at the Hallowell Fire Station located in Hallowell, Maine.

**Purpose**

The purpose of this testing was to determine the presence of lead-based paint on components throughout the facility. The lead-based paint testing was performed utilizing a portable X-ray Fluorescence Analyzer (XRF) that non-destructively tests for the presence of lead on building components. Once lead-containing components were identified, a visual assessment as to the current condition of the paint was also performed.

**Lead Testing Procedures**

On August 13, 2009, I, Deborah A. Kasik, *ME DEP* certified Lead Risk Assessor, License #LR-0003, performed the Lead-Based Paint Testing.

The lead-based paint testing was performed in accordance with the *established protocols* outlined in the *State of Maine Department of Environmental Protection's* Lead Management Regulations, Chapter 424, Section 7, as they apply to this project. The testing provides information on the lead-based paint content and assessment of condition for the surfaces tested. All results have been included on the field forms for your review. *Important note: The room numbers/names correspond to the drawings provided at the time of the inspection.*

The lead-based paint testing was conducted utilizing a portable X-ray Fluorescence Lead Paint Analyzer (RMD LPA-1), which non-destructively tests for the presence of lead-based paint. This equipment is licensed with the Department of Human Services Radiation Control Program and operated in accordance with all applicable regulations and conditions of licensure.

**Explanation of Analysis Methods**

The X-ray Fluorescence Lead Paint Analyzer is a complete lead paint analysis system that quickly, accurately, and non-destructively measures the concentration of lead-based paint on surfaces. X-ray Fluorescence is a common technique utilizing gamma rays to bombard the surface, causing the atoms in the paint to emit characteristic X-rays. These characteristic X-rays are detected and analyzed to provide the apparent lead concentration information.

The RMD LPA-1 has the ability to read concentrations of lead in paint up to 9.9 milligrams per square centimeter; if the content of lead in the paint is greater than 9.9, the reading for that component will be listed as >9.9 mg/cm<sup>2</sup>. The minimum detection limit of this particular equipment is 0.3 milligrams per square centimeter.

Calibration of the equipment is required by regulation and, as indicated on the Field Sheets, the readings were within the limits established by the manufacturer.

### **Limitations**

In certain circumstances, leaded components may be covered by other building components, such as sheetrock over old painted walls and ceilings. It should be understood that the lead testing process is non-destructive, unless authorization has been received by the Owner to access otherwise inaccessible components. Those areas where access was achievable, the surfaces were tested and the results included on the field forms. In cases where the components were inaccessible, the Owner can either assume that these inaccessible components contain lead-based paint or have them tested when renovation work may disturb them. The XRF readings obtained on the accessible surface are therefore for that surface only (i.e. XRF reading on paneling) and do not apply to the surface beneath it.

### **Observations/Results**

The Hallowell Fire Station, built in 1828, combines both a brick exterior (main building) with attached wood clapboard sided rear section. The interior of the building consists of natural wood walls in the basement, tin-covered walls and ceilings on the first floor, and paneled walls and ceiling tiles on the second floor. Originally stained wood components are still found throughout the building; some of these stained components have been painted over time, but still yield negative results; others have been painted with lead and test positive.

The exterior of the main building is bare brick with painted trim work that tested positive or is assumed positive for lead; the rear section of the building is covered with leaded wood clapboards and trim, in deteriorating condition. The Tower, inaccessible for testing, is comprised of wood clapboards, wood upper trim, windows/window trim and miscellaneous trim. All of these components have been assumed positive for lead based on the results of testing from lower wood components.

The following is a general listing of the components that were identified as lead-containing:

#### **Basement:**

- Wood Walls (as indicated)
- Doors (to pantry and rear storage)
- Cellar Window Frames
- Steam Heater (ceiling-mounted)

#### **First Floor:**

- Doors
- Door Trim
- Closet Wood Walls
- Window Sills, Casings
- Window Sashes & Exterior Trim
- Baseboard
- Lower Paneled Walls (storage room)

#### **Second Floor - Rear:**

- Attic Access Door
- Doors

Door Trim  
Window Sashes & Exterior Trim  
Window Sills, Casings  
Upper Walls (kitchen)  
Cabinets  
Steam Heaters  
Glazing on Kitchen Sink

**Second Floor – Front:**

Window Sashes & Exterior Trim  
Window Sills, Casings  
Steam Heaters  
Transom Window Sash  
Walls (behind paneling)  
Ceiling (above ceiling tiles)

**Exterior:**

Upper Trim, Fascia & Soffit  
Window Ext. Sashes & Trim  
Doors & Door Trim (includes metal headers)  
Clapboard Siding (rear)  
Cornerboards (rear)  
Tower (all components)

The condition of the paint both interior and exterior ranges from good to poor as indicated on the field forms (good – fair=highlighted in blue; poor=highlighted in yellow. **Similar components to the ones tested should be presumed to yield the same results.**

**Explanation of Results**

Components found to contain lead-based paint have also been assessed in terms of the condition of the paint. This assessment is based on the definitions outlined in the DEP regulations and utilized as an industry standard. There are three different classifications for paint condition - good, fair, and poor, which are 'generally' defined as follows:

- GOOD: paint which is entirely intact.
- FAIR: paint is intact, but worn; minor chips are evident as a result of normal wear and tear; no adhesion or substrate problems, e.g. no broken wallboard is present.
- POOR: paint is severely worn, weathered, or no longer adhering, i.e. peeling, cracking, flaking, chalking; or the substrate is broken, exposed, or otherwise deteriorated.

**Recommendations**

The objective of this testing was to determine the presence of lead-based paint and assess the condition of the paint as it currently exists. All scraping, sanding, cutting, welding, grinding, or demolition of any painted surface should not be performed under dry conditions in which airborne dust can be generated. Similarly, renovation/demolition activities that may impact lead-containing components are a concern with respect to the generation of airborne lead dust; therefore, safety measures such as the use of engineering controls are essential in order to protect human health and the environment. Contractors performing renovation/demolition activities in which excessive amounts of lead dust may be generated shall be trained in the hazards of lead-containing materials and the subsequent removal, cleaning, packaging, and handling of these materials as well as wearing

NIOSH approved respirators, disposable clothing, and other requirements of the standard. All work operations shall be performed in accordance with the following:

- *OSHA 29 CFR Part 1926.62, Lead Standard.*

The lead dust generated from any renovation work must be contained so that exposure is minimal, for both the workers and any occupants. After any renovation work is completed the dust should immediately be cleaned in order to prevent migration to other areas of the structure or waterway.

Monitoring lead-containing components that remain for condition changes is important; any changes should be addressed immediately. Any work, whether it is on the interior or exterior of the structure should be performed in a safe manner so as to minimize the amount of dust that is generated.

Additional recommendation: when ordering building materials for renovation/rehabilitation projects, order should state 'Lead-Free'.

---

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If you should have any questions at all concerning the information contained herein, or in general, please do not hesitate to contact me at (207) 604-2581 or via email at [dkasik@metrocast.net](mailto:dkasik@metrocast.net).

Sincerely,

*Deborah A. Kasik*

Deborah A. Kasik  
Lead Risk Assessor (LR#0003)

Enclosures

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

Basement

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION           | COMPONENT(S)                | COLOR       | CONDITION | # OF RDGS | RESULTS                 |
|------------|---------------------------|-----------------------------|-------------|-----------|-----------|-------------------------|
| L-1        | BASEMENT; MECHANICAL ROOM | D' WOOD WALL                | BLACK/WHITE | FAIR      | 2         | 2.5/3.0                 |
| L-2        | BASEMENT; MECHANICAL ROOM | B' DOOR TO FOOD PANTRY      | CREAM       | POOR      | 1         | >9.9                    |
| L-3        | BASEMENT; MECHANICAL ROOM | D' WOOD WALL BENEATH STAIRS | DK. GRAY    | FAIR      | 2         | 1.3/1.4                 |
| L-4        | BASEMENT; MECHANICAL ROOM | C' STRUCTURAL SUPPORT BEAM  | GRAY        | N/A       | 1         | <0.3                    |
| L-5        | BASEMENT; MECHANICAL ROOM | D' CELLAR WINDOW FRAME      | CREAM/GRAY  | POOR      | N/A       | ASSUMED; (INACCESSIBLE) |
| L-6        | BASEMENT; STORAGE 1       | CEILING MOUNT STEAM HEATER  | CREAM?      | POOR      | 1         | 2.3                     |
| L-7        | BASEMENT; STORAGE 1       | C' DOOR TO STORAGE 2        | MAROON      | POOR      | 1         | >9.9                    |
| L-8        | BASEMENT; STORAGE 2       | WOOD WALLS AROUND STOR. #1  | WHITE       | N/A       | 1         | <0.3                    |
| L-9        | BASEMENT; STORAGE 2       | D' TIN WALL & CEILING       | TAN         | N/A       | 1         | 0.4                     |
| L-10       | BASEMENT; STORAGE 2       | STRUCTURAL WOOD SUPPORTS    | RED         | N/A       | 1         | <0.3                    |
| L-11       | BASEMENT; STORAGE 2       | B' DOORS/TRIM               | GRAY        | N/A       | 2         | <0.3/<0.3               |
| L-12       | BASEMENT; FOOD PANTRY     | CEILING                     | WHITE WASH  | N/A       | 1         | <0.3                    |
| L-13       | BASEMENT; FOOD PANTRY     | B' DOORS                    | GRAY        | FAIR      | 2         | 5.7/6.9                 |
| L-14       | BASEMENT; FOOD PANTRY     | D' DOOR                     | CREAM       | POOR      | 1         | >9.9                    |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

# ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

*Basement*

**DATE:** 8/13/2009  
**AES #** 9-198

## PHOTOS



Photo #1; L-1 Wood Wall



Photo #2; L-2 Door to Pantry



Photo #3; L-6 Ceiling-mount Heater



Photo #4; L-7 Door to Rear Storage



Photo #5; L-5 Cellar Window Frame



Photo #6; L-3 Wood Wall beneath stairs

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:**

Deborah A. Kasik

**DATE:**

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

First Floor

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION                                   | COMPONENT(S)              | COLOR         | CONDITION | # OF RDGS | RESULTS    |
|------------|---|---------------------------|---------------|-----------|-----------|------------|
| L-1        | FIRST FLOOR; GARAGE                               | STAIR DOOR TO BASEMENT    | WHITE         | N/A       | 1         | <0.3       |
| L-2        | FIRST FLOOR; GARAGE                               | STAIR DOOR CASING         | CREAM         | FAIR      | 2         | 1.0        |
| L-3        | FIRST FLOOR; GARAGE                               | TIN CEILING               | WHITE         | N/A       | 1         | 0.6        |
| L-4        | FIRST FLOOR; GARAGE                               | TIN CEILING TRIM          | WHITE         | N/A       | 1         | 0.2        |
| L-5        | FIRST FLOOR; GARAGE                               | CONCRETE FLOOR            | RED           | N/A       | 2         | <0.3/<0.3  |
| L-6        | FIRST FLOOR; GARAGE                               | TIN WALLS                 | WHITE         | N/A       | 2         | 0.3/<0.3   |
| L-7        | FIRST FLOOR; GARAGE                               | A&C' PIPING               | BROWN & WHITE | N/A       | 2         | 0.4 & <0.3 |
| L-8        | FIRST FLOOR; GARAGE                               | A' ENTRY DOOR             | RED           | N/A       | 1         | 0.3        |
| L-9        | FIRST FLOOR; GARAGE                               | A' ENTRY DOOR CASING/JAMB | CREAM/RED     | FAIR/POOR | 2         | 3.1/3.6    |
| L-10       | FIRST FLOOR; GARAGE (CONCRETE)                    | A' ENTRY DOOR THRESHOLD   | RED           | N/A       | 1         | <0.3       |
| L-11       | FIRST FLOOR; GARAGE                               | A' GARAGE DOORS           | RED           | N/A       | 2         | <0.3/<0.3  |
| L-12       | FIRST FLOOR; GARAGE (TO STAIRS TO 2ND FLOOR APT.) | A' DOOR & CASING          | TAN           | N/A       | 2         | <0.3/<0.3  |
| L-13       | FIRST FLOOR; GARAGE (TO STAIRS TO 2ND FLOOR APT.) | A' DOOR JAMB              | WHITE         | FAIR-POOR | 1         | 1.0        |
| L-14       | FIRST FLOOR; GARAGE (TO CLOSET)                   | B#1' DOOR                 | TAN           | N/A       | 1         | <0.3       |

**NOTES:** **RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>**  
**\*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED.** **PRE/POST CALIBRATION READINGS\*:** 1.5/1.5

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:**

Deborah A. Kasik

**DATE:**

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

First Floor

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION                                      | COMPONENT(S)             | COLOR | CONDITION | # OF RDGS | RESULTS   |
|------------|--|--------------------------|-------|-----------|-----------|-----------|
| L-15       | FIRST FLOOR; GARAGE                                  | B#1' DOOR CASING         | TAN   | FAIR      | 1         | 1.0       |
| L-16       | FIRST FLOOR; GARAGE                                  | B#1' CLOSET WALLS (WOOD) | GRAY  | FAIR-POOR | 1         | 2.0       |
| L-17       | FIRST FLOOR; GARAGE (TO CLOSET)                      | B#2' DOOR                | TAN   | FAIR      | 1         | 1.3       |
| L-18       | FIRST FLOOR; GARAGE (TO CLOSET)                      | B#2' DOOR CASING & JAMB  | TAN   | N/A       | 2         | 0.6/0.6   |
| L-19       | FIRST FLOOR; GARAGE (TO STORAGE)                     | C#1' DOOR & CASING       | CREAM | N/A       | 2         | <0.3/<0.3 |
| L-20       | FIRST FLOOR; GARAGE (TO TOWER)                       | C#2' DOOR & CASING       | TAN   | FAIR      | 2         | 1.0/1.0   |
| L-21       | FIRST FLOOR; GARAGE (TO TOWER)                       | C#2' DOOR JAMB           | TAN   | FAIR      | 1         | 0.8       |
| L-22       | FIRST FLOOR; GARAGE (TO OFFICE)                      | C#3' DOOR & CASING       | CREAM | N/A       | 2         | <0.3/<0.3 |
| L-23       | FIRST FLOOR; GARAGE (TO OFFICE)                      | C#3 DOOR JAMB            | CREAM | FAIR-POOR | 1         | >9.9      |
| L-24       | FIRST FLOOR; GARAGE (CLOSET; NEAR STAIRS)            | C#4' DOOR & CASING       | TAN   | N/A       | 2         | <0.3/<0.3 |
| L-25       | FIRST FLOOR; GARAGE (CLOSET; NEAR STAIRS)            | C#4' DOOR JAMB           | GRAY  | N/A       | 1         | 0.5       |
| L-26       | FIRST FLOOR; GARAGE (INCLUDES ALL WINDOWS IN GARAGE) | WINDOW SILLS             | GREEN | POOR      | 1         | 1.6       |
| L-27       | FIRST FLOOR; GARAGE (INCLUDES ALL WINDOWS IN GARAGE) | WINDOW SASHES            | GREEN | POOR      | 1         | 1.5       |
| L-28       | FIRST FLOOR; GARAGE (INCLUDES ALL WINDOWS IN GARAGE) | WINDOW CASING            | WHITE | FAIR-POOR | 1         | 1.0       |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

**DATE:** 8/13/2009  
**AES #** 9-198

*First Floor*

| FIELD ID # | SAMPLE LOCATION                                      | COMPONENT(S)                    | COLOR            | CONDITION | # OF RDGS | RESULTS   |
|------------|--|---------------------------------|------------------|-----------|-----------|-----------|
| L-29       | FIRST FLOOR; GARAGE<br>(NEAR FRONT STAIRS)           | B' HEATER                       | GREEN            | N/A       | 1         | 0.6       |
| L-30       | FIRST FLOOR; GARAGE<br>(B'; MID WALL)                | B' HEATER                       | GREEN            | N/A       | 1         | <0.3      |
| L-31       | FIRST FLOOR; GARAGE<br>(B'; MID WALL)                | B' HEATER<br>PIPING             | CREAM            | N/A       | 1         | <0.3      |
| L-32       | FIRST FLOOR; GARAGE<br>(D'; NEAR STAIRS TO BASEMENT) | D' HEATER                       | GREEN            | N/A       | 1         | 0.6       |
| L-33       | FIRST FLOOR; GARAGE<br>(D'; NEAR STAIRS TO BASEMENT) | D' HEATER<br>PIPING             | LT. GREEN        | N/A       | 1         | 0.3       |
| L-34       | FIRST FLOOR; GARAGE<br>(NEAR TOWER/OFFICE)           | C' BASEBOARD                    | CREAM            | FAIR      | 1         | 1.7       |
| L-35       | FIRST FLOOR; STORAGE                                 | CEILING &<br>STRAPPING          | WHITE            | N/A       | 2         | <0.3/<0.3 |
| L-36       | FIRST FLOOR; STORAGE                                 | UPPER WALLS                     | LT. GREEN        | N/A       | 2         | <0.3/<0.3 |
| L-37       | FIRST FLOOR; STORAGE                                 | LOWER WALLS                     | BLUE<br>PANELING | GOOD-FAIR | 2         | 2.2/2.0   |
| L-38       | FIRST FLOOR; STORAGE                                 | WOOD FLOOR                      | GRAY             | N/A       | 2         | <0.3/<0.3 |
| L-39       | FIRST FLOOR; STORAGE                                 | C' DOOR TO<br>REAR STORAGE      | GREEN            | POOR      | 1         | >9.9      |
| L-40       | FIRST FLOOR; STORAGE                                 | C' DOOR TRIM<br>TO REAR STORAGE | WHITE            | N/A       | 1         | 0.3       |
| L-41       | FIRST FLOOR; TOWER                                   | BRICK WALLS                     | NATURAL          | N/A       | 1         | <0.3      |
| L-42       | FIRST FLOOR; OFFICE                                  | CEILING                         | WHITE            | N/A       | 1         | <0.3      |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

*First Floor*

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION           | COMPONENT(S)              | COLOR   | CONDITION | # OF RDGS | RESULTS   |
|------------|---------------------------|---------------------------|---------|-----------|-----------|-----------|
| L-43       | FIRST FLOOR; OFFICE       | WALLS                     | LT. TAN | N/A       | 1         | <0.3      |
| L-44       | FIRST FLOOR; OFFICE       | CHAIR RAIL & BASEBOARD    | TAN     | N/A       | 1         | 0.3       |
| L-45       | FIRST FLOOR; OFFICE       | CONCRETE FLOOR            | GRAY    | N/A       | 1         | <0.3      |
| L-46       | FIRST FLOOR; OFFICE       | D' WINDOW SASH            | TAN     | POOR      | 1         | >9.9      |
| L-47       | FIRST FLOOR; OFFICE       | D' WINDOW TRIM            | TAN     | N/A       | 1         | <0.3      |
| L-48       | FIRST FLOOR; REAR STORAGE | A' TIN-COVERED WOOD DOORS | WHITE   | N/A       | 2         | 0.6/<0.3  |
| L-49       | FIRST FLOOR; REAR STORAGE | MISCELLANEOUS WALL        | MULTI   | N/A       | 2         | <0.3/<0.3 |
|            |                           |                           |         |           |           |           |
|            |                           |                           |         |           |           |           |
|            |                           |                           |         |           |           |           |
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|            |                           |                           |         |           |           |           |

|  |   |
|--|---|
| <b>NOTES:</b> RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM <sup>2</sup><br>*ALL RESULTS EXPRESSED AS MG/CM <sup>2</sup> UNLESS OTHERWISE NOTED. | PRE/POST CALIBRATION READINGS*: 1.5/1.5 |
|--|---|

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:** Deborah A. Kasik **DATE:** 8/13/2009

# ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

*First Floor*

**DATE:** 8/13/2009  
**AES #** 9-198

## PHOTOS



Photo #7; L-27 Window Sashes



Photo #8; L-39 Door to Storage

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:**

Deborah A. Kasik

**DATE:**

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

*Second Floor- Rear*

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION                                      | COMPONENT(S)                 | COLOR        | CONDITION | # OF RDGS | RESULTS          |
|------------|--|------------------------------|--------------|-----------|-----------|------------------|
| L-1        | STAIRWAY TO 2ND FLOOR                                | CEILING                      | WHITE        | N/A       | 1         | <0.3             |
| L-2        | STAIRWAY TO 2ND FLOOR                                | CEILING MOLDING              | WHITE        | N/A       | 1         | <0.3             |
| L-3        | STAIRWAY TO 2ND FLOOR                                | UPPER WALLS                  | BLUE         | N/A       | 1         | <0.3             |
| L-4        | STAIRWAY TO 2ND FLOOR                                | LOWER WALLS                  | STAIN        | N/A       | 1         | <0.3             |
| L-5        | STAIRWAY TO 2ND FLOOR                                | ATTIC ACCESS DOOR (WAINSCOT) | WHITE/GRAY   | POOR      | N/A       | ASSUMED POSITIVE |
| L-6        | STAIRWAY TO 2ND FLOOR<br>(TRIM = STAINED)            | WINDOW SASH                  | BLACK        | FAIR-POOR | 1         | >9.9             |
| L-7        | SECOND FLOOR; MEETING ROOM                           | UP/LOW WALLS & CHAIR RAIL    | STAINED      | N/A       | 1         | <0.3             |
| L-8        | SECOND FLOOR; MEETING ROOM<br>(INCLUDES ALL WINDOWS) | B' WINDOW SASH               | BLACK        | FAIR-POOR | 1         | >9.9             |
| L-9        | SECOND FLOOR; KITCHEN                                | UPPER WALL                   | LT. GRAY     | FAIR      | 1         | 1.3              |
| L-10       | SECOND FLOOR; KITCHEN                                | CHAIR RAIL & LOWER WALL      | BLACK        | N/A       | 2         | <0.3/<0.3        |
| L-11       | SECOND FLOOR; KITCHEN                                | A' DOOR CASING & JAMB        | NOT RECORDED | FAIR      | 2         | 0.8/1.0          |
| L-12       | SECOND FLOOR; KITCHEN                                | CABINET DOORS/ FRAMES        | WHITE        | FAIR      | 2         | 1.5/1.6          |
| L-13       | SECOND FLOOR; KITCHEN                                | B' HEATER                    | SILVER       | GOOD-FAIR | 1         | 2.6              |
| L-14       | SECOND FLOOR; KITCHEN                                | WINDOW SASHES & TRIM (ALL)   | WHITE        | FAIR-POOR | 2         | 1.5/1.6          |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

Second Floor - Rear

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION                                       | COMPONENT(S)                     | COLOR           | CONDITION | # OF RDGS | RESULTS   |
|------------|---|----------------------------------|-----------------|-----------|-----------|-----------|
| L-15       | SECOND FLOOR; KITCHEN                                 | GLAZING ON SINK                  | CLEAR           | GOOD      | 1         | >9.9      |
| L-16       | SECOND FLOOR; BATHROOM                                | CEILING TRIM                     | WHITE           | N/A       | 1         | <0.3      |
| L-17       | SECOND FLOOR; BATHROOM                                | UPPER WALLS                      | CREAM           | N/A       | 1         | <0.3      |
| L-18       | SECOND FLOOR; BATHROOM                                | LOWER WALL                       | DK. ORANGE      | N/A       | 1         | <0.3      |
| L-19       | SECOND FLOOR; BATHROOM                                | BASEBOARD                        | BLACK           | N/A       | 1         | <0.3      |
| L-20       | SECOND FLOOR; BATHROOM                                | HEATER                           | SILVER          | FAIR      | 1         | 0.8       |
| L-21       | SECOND FLOOR; CHIEF'S ROOM                            | CEILING & TRIM                   | WHITE           | N/A       | 2         | <0.3/<0.3 |
| L-22       | SECOND FLOOR; CHIEF'S ROOM<br>(LOWER WALLS = STAINED) | UPPER WALLS                      | LT. BLUE        | N/A       | 1         | <0.3      |
| L-23       | SECOND FLOOR; CHIEF'S ROOM                            | WINDOW SASHES<br>& EXTERIOR TRIM | WHITE           | POOR      | N/A       | POSITIVE  |
| L-24       | SECOND FLOOR; HALLWAY                                 | LOWER WALL                       | MAROON          | N/A       | 1         | <0.3      |
| L-25       | SECOND FLOOR; LIVING ROOM                             | CEILING TRIM<br>& MOLDING        | WHITE           | N/A       | 2         | <0.3/<0.3 |
| L-26       | SECOND FLOOR; LIVING ROOM                             | UP/LOW WALLS                     | NOT<br>RECORDED | N/A       | 2         | <0.3/<0.3 |
| L-27       | SECOND FLOOR; LIVING ROOM                             | HEATER                           | SILVER          | FAIR      | 1         | 1.6       |
| L-28       | SECOND FLOOR; LIVING ROOM<br>(SASHES ARE STAINED)     | WINDOW EXTERIOR<br>TRIM          | WHITE           | POOR      | 1         | >9.9      |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

# ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

*Second Floor - Rear*

**DATE:** 8/13/2009  
**AES #** 9-198

## PHOTOS



Photo #9; L-28 Window Sashes



Photo #10; L-27 Cabinets,  
Windows & Heater

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:**

Deborah A. Kasik

**DATE:**

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

Second Floor - Front

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION   | COMPONENT(S)               | COLOR    | CONDITION | # OF RDGS | RESULTS                |
|------------|---|----------------------------|----------|-----------|-----------|------------------------|
| L-1        | APARTMENT; LIVING ROOM  | WALLS                      | CREAM    | N/A       | 1         | <0.3                   |
| L-2        | APARTMENT; LIVING ROOM<br>(TRIM STAINED ORIGINALLY)             | WINDOW TRIM<br>(INTERIOR)  | WHITE    | N/A       | 2         | <0.3/<0.3              |
| L-3        | APARTMENT; LIVING ROOM  | WINDOW SASH &<br>EXT. TRIM | WHITE    | POOR      | 2         | >9.9/>9.9              |
| L-4        | APARTMENT; LIVING ROOM<br>(TO DINING ROOM)                      | B' DOOR CASING<br>& JAMB   | BROWN    | N/A       | 2         | <0.3/<0.3              |
| L-5        | APARTMENT; LIVING ROOM<br>(TRIM STAINED ORIGINALLY; TO BEDROOM) | C' DOOR, CASING,<br>& JAMB | WHITE    | N/A       | 3         | <0.3/<0.3/<0.3         |
| L-6        | APARTMENT; LIVING ROOM  | C' DOOR<br>THRESHOLD       | BROWN    | N/A       | 1         | 0.3                    |
| L-7        | APARTMENT; BEDROOM (OFF LIVING)                                 | WALLS                      | DK. BLUE | N/A       | 2         | <0.3/<0.3              |
| L-8        | APARTMENT; BEDROOM (OFF LIVING)                                 | BASEBOARD                  | WHITE    | N/A       | 1         | <0.3                   |
| L-9        | APARTMENT; BEDROOM (OFF LIVING)                                 | FLOOR                      | MULTI    | N/A       | 2         | <0.3/<0.3              |
| L-10       | APARTMENT; BEDROOM (OFF LIVING)                                 | DOORS & TRIM               | WHITE    | N/A       | 2         | <0.3/<0.3              |
| L-11       | APARTMENT; BEDROOM (OFF LIVING)                                 | HEATER                     | SILVER   | FAIR      | 1         | 1.4                    |
| L-12       | APARTMENT; DINING ROOM  | WALLS                      | CREAM    | N/A       | 4         | <0.3/<0.3/<0.3<br><0.3 |
| L-13       | APARTMENT; DINING ROOM  | BASEBOARD                  | BROWN    | N/A       | 1         | <0.3                   |
| L-14       | APARTMENT; DINING ROOM  | FLOOR                      | MULTI    | N/A       | 1         | <0.3                   |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

Second Floor - Front

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION                 | COMPONENT(S)               | COLOR        | CONDITION | # OF RDGS | RESULTS          |
|------------|---------------------------------|----------------------------|--------------|-----------|-----------|------------------|
| L-15       | APARTMENT; DINING ROOM          | A' WINDOW SILL             | WHITE        | FAIR-POOR | 2         | 6.6/6.8          |
| L-16       | APARTMENT; DINING ROOM          | A' WINDOW CASING           | WHITE        | FAIR-POOR | 1         | >9.9             |
| L-17       | APARTMENT; DINING ROOM          | A' WINDOW SASH             | BROWN        | POOR      | 1         | >9.9             |
| L-18       | APARTMENT; BEDROOM (OFF DINING) | WALLS                      | PALE WHITE   | N/A       | 2         | <0.3/<0.3        |
| L-19       | APARTMENT; BEDROOM (OFF DINING) | FLOOR                      | NOT RECORDED | N/A       | 1         | <0.3             |
| L-20       | APARTMENT; BEDROOM (OFF DINING) | DOORS & TRIM               | WHITE        | N/A       | 2         | <0.3/<0.3        |
| L-21       | APARTMENT; BEDROOM (OFF DINING) | TRANSOM WINDOW TRIM        | WHITE        | N/A       | 1         | <0.3             |
| L-22       | APARTMENT; BEDROOM (OFF DINING) | TRANSOM WINDOW SASH        | WHITE        | GOOD      | N/A       | ASSUMED POSITIVE |
| L-23       | APARTMENT; KITCHEN              | WALLS BEHIND PANELING      | NOT RECORDED | GOOD      | 1         | 1.8              |
| L-24       | APARTMENT; KITCHEN              | CEILING ABOVE TILES & TRIM | CREAM        | GOOD      | 1         | 1.0              |
| L-25       | APARTMENT; KITCHEN              | PANEL WALLS                | WHITE        | N/A       | 1         | <0.3             |
| L-26       | APARTMENT; KITCHEN              | BASEBOARD                  | CREAM/BROWN  | N/A       | 2         | 0.6/<0.3         |
| L-27       | APARTMENT; KITCHEN              | DOOR TRIM                  | BROWN        | N/A       | 2         | <0.3/<0.3        |
| L-28       | APARTMENT; KITCHEN              | WINDOW TRIM                | BROWN        | N/A       | 2         | <0.3/<0.3        |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

Second Floor - Front

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION                  | COMPONENT(S)               | COLOR  | CONDITION | # OF RDGS | RESULTS        |
|------------|----------------------------------|----------------------------|--------|-----------|-----------|----------------|
| L-29       | APARTMENT; KITCHEN               | WINDOW SASHES              | BROWN  | FAIR-POOR | 2         | >9.9/>9.9      |
| L-30       | APARTMENT; BEDROOM (OFF KITCHEN) | WALLS                      | CREAM  | N/A       | 2         | <0.3/<0.3      |
| L-31       | APARTMENT; BEDROOM (OFF KITCHEN) | BASEBOARD                  | CREAM  | N/A       | 1         | <0.3           |
| L-32       | APARTMENT; BEDROOM (OFF KITCHEN) | FLOOR                      | MULTI  | N/A       | 1         | <0.3           |
| L-33       | APARTMENT; BEDROOM (OFF KITCHEN) | DOORS & TRIM               | WHITE  | N/A       | 2         | <0.3/<0.3      |
| L-34       | APARTMENT; BEDROOM (OFF KITCHEN) | WINDOW SILL, CASING & SASH | WHITE  | FAIR-POOR | 3         | >9.9/>9.9/>9.9 |
| L-35       | APARTMENT; BEDROOM (OFF KITCHEN) | HEATER                     | SILVER | FAIR      | 1         | 1.5            |
| L-36       | APARTMENT; BATHROOM              | BASEBOARD                  | WHITE  | N/A       | 1         | <0.3           |
|            |                                  |                            |        |           |           |                |
|            |                                  |                            |        |           |           |                |
|            |                                  |                            |        |           |           |                |
|            |                                  |                            |        |           |           |                |
|            |                                  |                            |        |           |           |                |
|            |                                  |                            |        |           |           |                |
|            |                                  |                            |        |           |           |                |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR: Deborah A. Kasik DATE: 8/13/2009

# ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

*Second Floor - Front*

**DATE:** 8/13/2009  
**AES #** 9-198

## PHOTOS



Photo #11; Window Sashes



Photo #12; L-34 Window Sashes & Trim

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:**

Deborah A. Kasik

**DATE:**

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

**DATE:** 8/13/2009  
**AES #** 9-198

*Exterior*

| FIELD ID # | SAMPLE LOCATION  | COMPONENT(S)                     | COLOR | CONDITION | # OF RDGS | RESULTS          |
|------------|--|----------------------------------|-------|-----------|-----------|------------------|
| L-1        | EXTERIOR; 'A' SIDE (FRONT)                                     | BRICK SIDING                     | BARE  | N/A       | 1         | <0.3             |
| L-2        | EXTERIOR; 'A' SIDE (FRONT)                                     | UPPER TRIM, SOFFIT FASCIA        | WHITE | FAIR      | N/A       | ASSUMED POSITIVE |
| L-3        | EXTERIOR; 'A' SIDE (FRONT)                                     | SIGNS                            | MULTI | FAIR-POOR | N/A       | ASSUMED POSITIVE |
| L-4        | EXTERIOR; 'A' SIDE (FRONT)<br>(SEE WINDOW TRIM ON OTHER SIDES) | WINDOW TRIM                      | WHITE | FAIR-POOR | N/A       | ASSUMED POSITIVE |
| L-5        | EXTERIOR; 'A' SIDE (FRONT)                                     | GARAGE DOOR JAMBS                | RED   | FAIR      | 1         | >9.9             |
| L-6        | EXTERIOR; 'A' SIDE (FRONT)                                     | GARAGE DOOR METAL HEADERS        | RED   | FAIR-POOR | 1         | 1.7              |
| L-7        | EXTERIOR; 'A' SIDE (FRONT)                                     | A#1' ENTRY DOOR TO APT.          | RED   | FAIR-POOR | 1         | >9.9             |
| L-8        | EXTERIOR; 'A' SIDE (FRONT)<br>(INCLUDES DECORATIVE MOLDING)    | A#1' ENTRY DOOR CASING TO APT.   | RED   | FAIR-POOR | 1         | >9.9             |
| L-9        | EXTERIOR; 'A' SIDE (FRONT)                                     | A#1' ENTRY DOOR JAMB TO APT.     | RED   | FAIR-POOR | 1         | >9.9             |
| L-10       | EXTERIOR; 'A' SIDE (FRONT)                                     | A#2' ENTRY DOOR TO GARAGE        | RED   | N/A       | 1         | <0.3             |
| L-11       | EXTERIOR; 'A' SIDE (FRONT)                                     | A#2' ENTRY DOOR CASING TO GARAGE | RED   | N/A       | 1         | <0.3             |
| L-12       | EXTERIOR; 'A' SIDE (FRONT)                                     | A#2' DECORATIVE MOLDING/CASING   | RED   | FAIR-POOR | 1         | >9.9             |
| L-13       | EXTERIOR; 'B' SIDE (FRONT)                                     | BRICK SIDING                     | BARE  | N/A       | 1         | <0.3             |
| L-14       | EXTERIOR; 'B' SIDE (REAR)                                      | CLAPBOARD SIDING                 | RED   | POOR      | 1         | >9.9             |

**NOTES:** RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>  
 \*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED. PRE/POST CALIBRATION READINGS\*: 1.5/1.5

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

*Exterior*

**DATE:** 8/13/2009  
**AES #** 9-198

| FIELD ID # | SAMPLE LOCATION                                     | COMPONENT(S)                     | COLOR | CONDITION | # OF RDGS | RESULTS          |
|------------|---|----------------------------------|-------|-----------|-----------|------------------|
| L-15       | EXTERIOR; 'B' SIDE (REAR)                           | REAR DOORS TO BASEMENT STORAGE   | RED   | N/A       | 1         | <0.3             |
| L-16       | EXTERIOR; 'B' SIDE (REAR)                           | REAR DOOR TRIM TO BSMNT. STORAGE | WHITE | N/A       | 1         | <0.3             |
| L-17       | EXTERIOR; 'B' SIDE (REAR)<br>(INCLUDES GRAY FRAME)  | REAR DOORS TO FOOD PANTRY        | GRAY  | FAIR      | 1         | >9.9             |
| L-18       | EXTERIOR; 'B' SIDE (REAR)                           | DOOR COVERS & FRAMES             | GRAY  | FAIR      | 1         | >9.9             |
| L-19       | EXTERIOR; 'B' SIDE                                  | WINDOW TRIM                      | WHITE | POOR      | 1         | >9.9             |
| L-20       | EXTERIOR; 'B' SIDE                                  | UPPER TRIM, SOFFIT, FASCIA       | WHITE | FAIR-POOR | N/A       | ASSUMED POSITIVE |
| L-21       | EXTERIOR; 'C' SIDE<br>(MIX OF OLD & NEW CLAPBOARDS) | CLAPBOARD SIDING                 | RED   | POOR      | 1         | 2.2              |
| L-22       | EXTERIOR; 'C' SIDE<br>(MIX OF OLD & NEW PIECES)     | CORNERBOARD                      | WHITE | FAIR-POOR | 2         | >9.9/<0.3        |
| L-23       | EXTERIOR; 'C' SIDE                                  | CONCRETE FOUNDATION              | RED   | N/A       | 1         | <0.3             |
| L-24       | EXTERIOR; 'C' SIDE                                  | DOOR & CASING                    | RED   | FAIR-POOR | N/A       | ASSUMED POSITIVE |
| L-25       | EXTERIOR; 'C' SIDE                                  | THRESHOLD/SILL                   | WHITE | POOR      | 1         | 2.2              |
| L-26       | EXTERIOR; 'C' SIDE                                  | UPPER TRIM, SOFFIT, FASCIA       | WHITE | FAIR-POOR | N/A       | ASSUMED POSITIVE |
| L-27       | EXTERIOR; 'D' SIDE (REAR)                           | CLAPBOARD SIDING                 | RED   | POOR      | 1         | >9.9             |
| L-28       | EXTERIOR; 'D' SIDE (REAR)                           | CORNERBOARD                      | WHITE | POOR      | 1         | >9.9             |

**NOTES:** **RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup>**  
**\*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED.** **PRE/POST CALIBRATION READINGS\*:** 1.5/1.5

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:**

Deborah A. Kasik

**DATE:**

8/13/2009

## ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

**CLIENT:** Summit Environmental Consultants, Inc.  
**SITE:** Hallowell Fire Station, Hallowell, Maine

**DATE:** 8/13/2009  
**AES #** 9-198

*Exterior*

|      |  |                             |       |      |     |                  |
|------|--|-----------------------------|-------|------|-----|------------------|
| L-29 | EXTERIOR; 'D' SIDE (REAR)                        | SIDING AROUND PORTABLE UNIT | RED   | N/A  | 1   | <0.3             |
| L-30 | EXTERIOR; 'D' SIDE (REAR)<br>(INCLUDES HEADER)   | D' SIDE DOOR & CASING       | WHITE | FAIR | 1   | 1.3              |
| L-31 | EXTERIOR; 'D' SIDE (REAR)                        | D' SIDE DOOR JAMB (INT/EXT) | BROWN | FAIR | 1   | >9.9             |
| L-32 | EXTERIOR; 'D' SIDE (FRONT)                       | BRICK SIDING                | BARE  | N/A  | 1   | <0.3             |
| L-33 | EXTERIOR; 'D' SIDE<br>(SEE SASHES FROM INTERIOR) | WINDOW TRIM                 | WHITE | POOR | 2   | >9.9/>9.9        |
| L-34 | EXTERIOR; ALL SIDES<br>TOWER COMPONENTS          | ALL COMPONENTS              | WHITE | POOR | N/A | ASSUMED POSITIVE |
|      |  |                             |       |      |     |                  |
|      |  |                             |       |      |     |                  |
|      |  |                             |       |      |     |                  |
|      |  |                             |       |      |     |                  |
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|      |  |                             |       |      |     |                  |
|      |  |                             |       |      |     |                  |
|      |  |                             |       |      |     |                  |

|               |  |  |
|---------------|--|--|
| <b>NOTES:</b> | <b>RMD LPA-1 (XRF): UNIT # 1336 RADIATION LICENSE #05745 CALIBRATION STANDARD: 1.5 +/- 0.3 MG/CM<sup>2</sup></b><br><b>*ALL RESULTS EXPRESSED AS MG/CM<sup>2</sup> UNLESS OTHERWISE NOTED.</b> | <b>PRE/POST CALIBRATION READINGS*:</b> 1.5/1.5 |
|---------------|--|--|

**SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:**

Deborah A. Kasik

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# ENVIRONMENTAL LEAD-BASED PAINT XRF RESULTS

CLIENT: Summit Environmental Consultants, Inc.  
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Exterior

## PHOTOS



Photo #13; 'D' Door jamb to basement



Photo #14; L-21,22,34 'C' side Siding/Cornerboards/Trim/ Tower



Photo #15; L-2-9 'A' side Door/Window Trim, Upper Trim



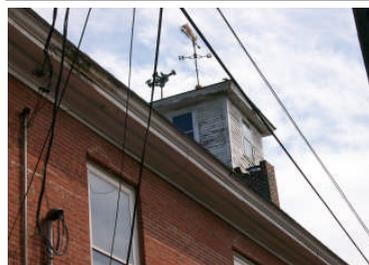
Photo #16; L-13-20 'B' side Rear Siding/Window&Door Trim



Photo #17; L-24-25 'C' side Door & Trim



Photo #18; L-27-33 'D' side Rear Siding/Window&Door, Upper Trim



Additional Exterior Photos

SIGNATURE OF DEP CERTIFIED LEAD RISK ASSESSOR:

Deborah A. Kasik

DATE:

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