

## Environmental Survey



**Former Saint Johnsbury Armory  
1249 Main Street  
Saint Johnsbury, Vermont**

Prepared for:

**Ms. Gail Aloisio  
Northeastern Vermont Development Association  
36 Eastern Avenue, Suite 1  
PO Box 630  
St. Johnsbury, Vermont 05819**

Prepared by:

**Cardno ATC  
171 Commerce Street, P.O. Box 1486  
Williston, VT 05401**

Cardno ATC Project No. 063.35078.0013

March 28, 2013

## Table of Contents

1.0	BACKGROUND.....	1
2.0	FINDINGS.....	1
2.1	ASBESTOS SURVEY.....	1
2.1.1	Asbestos Quality Assurance/Quality Control.....	2
2.1.2	Asbestos Recommendations .....	2
2.2	PCB IN BUILDING MATERIALS SURVEY.....	3
2.2.1	PCB Quality Assurance/Quality Control .....	3
2.2.2	PCB Recommendations.....	3
2.3	LEAD BASED PAINT XRF SURVEY .....	3
2.3.1	Lead in Paint Quality Assurance/Quality Control.....	4
2.3.2	Lead in Paint Recommendations .....	4
2.4	LEAD IN DUST SAMPLING .....	5
2.4.1	Lead in Dust Quality Assurance/Quality Control .....	7
2.4.2	Lead in Dust Recommendations .....	7
2.5	Indoor Air Quality Investigation .....	7
2.5.1	IAQ Quality Assurance/Quality Control .....	10
2.5.2	IAQ Recommendations.....	10
2.6	SEDIMENT SAMPLING AND DYE TEST .....	10
2.6.1	Sediment Sampling Quality Assurance/Quality Control.....	11
2.6.2	Sediment Sampling and Dye Test Recommendations .....	11

## Appendices

Site Diagram

- Appendix A: Asbestos Sample Location Diagram
  - List of Suspect Asbestos-Containing Materials
  - Asbestos Laboratory Report
- Appendix B: PCB Sample Location Diagram
  - List of Suspect PCB-Containing Materials
  - PCB Laboratory Report
- Appendix C: Building Diagram with Room Numbers
  - XRF Field Sheets
  - XRF Protocol
  - Performance Characteristic Sheet
  - XRF QA/QC Results
- Appendix D: Lead in Dust Sample Location Diagram
  - Lead in Dust Laboratory Report
- Appendix E: Indoor Air Quality Sample Location Diagram
  - Indoor Air Quality Laboratory Reports
- Appendix F: Diagram of Floor Drains and Sediment Sample Location
  - Sediment Sample Laboratory Reports

## 1.0 BACKGROUND

The following report documents the asbestos, polychlorinated biphenyls (PCBs), lead based paint (LBP), lead in dust, indoor air quality (IAQ), drain sediment sampling performed at the former Saint Johnsbury Armory facility, located at 1249 Main Street (the site) in Saint Johnsbury, Vermont. In addition the report documents the dye-testing results of the basement floor drain system.

The site is currently developed with the former St. Johnsbury Armory building, a three story masonry structure. The building is currently vacant and is located on an approximately 0.44 acre parcel. The property is located in downtown St. Johnsbury in an area with mix-use development. The property is located on the west side of Main Street and is bounded on the north and west by the Saint Andrews Episcopal Church and the Grace Methodist Church, respectively; a dentist's office to the south and to the east, across Main Street is the Passumpsic Savings Bank and several other small business'.

Pursuant to the Phase I Environmental Site Assessment (May 2012, the Johnson Company), the property has been developed since at least 1882, originally with four separate buildings. Apparently the current armory building was constructed circa 1916. Modern uses of the building include use by the St. Johnsbury Police Department, the American Red Cross and the St. Johnsbury Parks and recreation Department. The Phase I indicates that the Vermont National Guard last occupied the building in 1976.

Cardno ATC understands that the Saint Johnsbury History and Heritage Center is assessing the feasibility for redevelopment of the building into a possible office headquarters, education and museum space.

This US EPA Brownfields project was completed by Cardno ATC for the Northeastern Vermont Development Association (NVDA) and pursuant to the approved Site Specific Quality Assurance Project Plan (SSQAPP) Addenda F-1 dated November 28, 2012. The Scope of Work for this project as outlined in the SSQAPP was based on the findings of the Phase I Environmental Site Assessment completed for the site in May of 2012 (prepared by the Johnson Company).

## 2.0 FINDINGS

### 2.1 ASBESTOS SURVEY

Pursuant to the SSQAPP, all asbestos samples were collected pursuant to the Cardno ATC SOP F-SOP-1.12. This *baseline* asbestos survey was also conducted pursuant to ASTM method E2356-04 "Standard Practice for Comprehensive Building Asbestos Surveys". Samples were submitted to the Cardno ATC Asbestos Laboratory Division (NY, NY) for laboratory analysis via polarized light microscopy (PLM) analysis.

A *Baseline Survey* is a building-wide or facility wide inspection that provides a general sense of the overall location, type, quantity and conditions of asbestos –containing materials (ACM) present. The baseline survey provides information for long-term management of ACM and prioritization of response actions, however a baseline survey is unobtrusive in that walls and other barriers are not damaged (opened up) in order to collect samples. Therefore, it is possible that suspect ACM may be located behind walls other barriers (such as inside boilers, doors, etc.).

Previous asbestos sampling data from Crothers Environmental Group LLC's "Limited Interior Asbestos Inspection" report Dated November 1, 2008 was utilized and sampling data from the 2008 report was incorporated into this report. The fieldwork was conducted by Cardno ATC on December 10, 17, 18 and 28, 2012.

Asbestos bulk samples were analyzed by Polarized Light Microscopy (PLM). Asbestos Containing Material (ACM) is defined as material that contains any type of asbestos in an amount greater than 1% asbestos.

The following building materials were identified as ACM from this survey:

- **Air cell pipe insulation (Homogenous Material No. 24 [H 24])**
- **Mudded joint packings (H42)**

The following materials were found to previously be identified as ACM within the previous 2008 survey:

- **Plaster walls and ceilings (H11)**

The following materials have not been sampled (due to inaccessibility) and should be assumed to be ACM:

- **Door Insulation (H15)**
- **Fire Brick (H26)**
- **Vibration Cloth (H34)**
- **Boiler Door Insulation (H37)**
- **Boiler Internal Materials (H43)**

The following materials were found to contain trace amounts (<1%) of asbestos:

- **Exterior Window Caulking (H4)**
- **Exterior Tar Brick Caulking (H5)**

**Appendix A** of this report contains a listing of suspect asbestos containing materials, a sample location diagram and the asbestos laboratory hardcopy results.

### **2.1.1 Asbestos Quality Assurance/Quality Control**

For the purposes of comparing duplicate samples, samples 01A and 01B (duplicate) were utilized. Both samples were below laboratory detection limits. Laboratory in-house QA/QC included duplicate analysis of 10% of samples by the original analyst as well as a duplicate analysis by a second analyst (recounts). All QA/QC laboratory recounts passed QA/QC requirements; the Data Entry sheet for the asbestos bulk sample laboratory recounts is included with the laboratory hardcopy results in **Appendix A**.

### **2.1.2 Asbestos Recommendations**

- Prior to any renovations/demolition to the building, any asbestos containing materials that may be disturbed must be removed or abated as required (per State and Federal regulations).
- Suspect ACM may be enclosed or concealed in areas Cardno ATC did not access during this survey. If suspect materials that are not included in this survey are discovered during renovation / demolition activities, they shall be tested prior to disturbance.
- Materials containing "trace" amounts of asbestos (<1%) are not considered Asbestos Containing Materials (ACM) by the US EPA and many state agencies. However, certain sections of OSHA standard 29 CFR 1926.1101 apply when such materials are subject to disturbance. Refer to "OSHA Standard Interpretation and Compliance Letter" dated 8/13/1999, subject: "Requirements for demolition operations involving material containing <1% asbestos".
- Asbestos abatement activities must be performed by a Vermont certified abatement contractor following all applicable State and Federal regulations. Abatement activities should be designed by a Vermont certified asbestos project designer and overseen by a Vermont certified asbestos project monitor.

## 2.2 PCB IN BUILDING MATERIALS SURVEY

Pursuant to the SSQAPP, all PCB samples were collected pursuant to the Cardno ATC SOP F-SOP-1.17. Samples were submitted to EMSL Analytical, Inc. (Cinnaminson, NJ) for laboratory analysis via 3540C/8082A analysis. PCB bulk samples of suspect materials (oil paints, caulking or similar elastic sealant materials installed prior to 1978) were collected; a minimum of two bulk samples representative of each different homogeneous area of suspect material sampled were collected.

Cardno ATC visually inspected accessible areas of the facility for homogeneous groupings of suspect PCB containing materials. Only suspect (window and door caulking, paint, expansion joints etc.) materials installed prior to 1978 were investigated. Cardno ATC sampled ten (10) materials that are considered to be suspect for containing PCB's.

The EPA regulatory limit ("not authorized for use" under the Toxic Substances Control Act of 1976 [TSCA]) for PCBs in building materials is 50 parts per million (ppm).

**The gray floor paint in the basement level (H16) was the only material identified during this survey as containing levels of PCBs in excess of 50 ppm.** The PCB content of the gray paint was identified as containing levels up to 5,700 ppm.

**Appendix B** of this report contains a listing of suspect PCB materials, a PCB sample location diagram and PCB laboratory hardcopy results.

### 2.2.1 PCB Quality Assurance/Quality Control

Pursuant to the SSQAPP one duplicate PCB sample was collected. Sample number 16C (grey floor paint, H16) is a duplicate of sample number 16B (as well as 16A). The Relative Percent Difference (RPD) between samples 16B (5,600 ppm) and 16C (4,600) is 21%, which is within the RPD requirement of 50% pursuant to the SSQAPP. The RPD between samples 16A and 16C is 0%.

### 2.2.2 PCB Recommendations

- Additional PCB sampling should be conducted to determine to what extent, if any, of the PCBs from the flooring paint have leached into the concrete floor substrate. Required removal of PCB materials (such as the flooring paint) must be conducted pursuant to TSCA and may require an EPA approved work plan.

## 2.3 LEAD BASED PAINT XRF SURVEY

Pursuant to the SSQAPP, the XRF lead based paint (LBP) Survey was conducted pursuant to the Cardno ATC SOP F-SOP-1.19. The LBP XRF survey of the building was conducted on December 10 and 17, 2012. Lead based paint is defined as paint or other surface coatings that contain lead equal to or greater than 1.0 mg/cm<sup>2</sup> (by XRF).

A lead paint analyzer (XRF) was used to sample representative painted components and surfaces for lead content. The following **Table 1** summarizes the various components identified as LBP.

**Table 1: Summary of XRF Lead in Paint Results**

<i>Component</i>	<i>Room No.</i>	<i>Condition</i>	<i>Substrate</i>	<i>Color</i>	<i>Location in Room</i>	<i>Result (mg/cm<sup>2</sup>)</i>
Windows – All Components	Exterior	Good - Poor	Wood	White	All	>9.9 (maximum reading of instrument)
Side Porch	Exterior	Good	Wood	White	D side	3.0
Window Wells	Throughout Building	Good - Poor	Wood	White	All	>9.9 (maximum reading of instrument)
Wall	Room 21	Good	Brick	Blue	C side	3.0
Door	Room 21	Good	Metal	Green	C side	3.4
Floor	Throughout Basement	Fair - Poor	Concrete	Grey	All	1.5
Walls and Ceiling	Room 23	Good - Fair	Brick	Green	All	1.5
Walls	Room 24	Good - Poor	Brick	Green	All	3.0
Walls	Room 25	Good	Brick	White	All	3.0
Stair Riser	Room 25	Good	Wood	White	A side	1.1

Individual room by room testing results are contained on the field sheets included in **Appendix C** of this report.

### 2.3.1 Lead in Paint Quality Assurance/Quality Control

Pursuant to QA/QC procedures within the Cardno ATC SOP (F –SOP-1.19), QA/QC repeat testing was conducted on ten (10) surfaces. A procedure for calculating the retest tolerance limit is specified in the XRF instrument Performance Characteristic Sheet (PCS). The retest conducted by Cardno ATC was within the tolerance limit for the instrument.

**Appendix C** contains the room location diagram, field sheets, XRF instrument protocol, the repeated testing (QA/QC) results, and the PCS.

### 2.3.2 Lead in Paint Recommendations

- If Demolition/Renovation activities are planned that would disturb finish coatings, then appropriate work practices should be employed to satisfy the Lead in Construction OSHA Standard (1926.62), including but not limited to representative air monitoring to determine actual employee exposures.
- Copies of this report should be provided to the general contractor and demolition contractor to assist with compliance to VOSHA Lead in Construction Standard.
- Any abatement of lead hazards must be completed by a Vermont licensed lead abatement firm, pursuant to the Vermont Regulations for Lead Control.

- Subsequent to renovation/demolition activities a lead-specific final cleaning should be conducted in all areas and lead in dust sampling should be completed prior to building occupancy.

#### 2.4 LEAD IN DUST SAMPLING

As required by the SSQAPP, lead-in-dust sampling was conducted pursuant to the Cardno ATC SOP F-SOP-1.20.

Cardno ATC collected lead in dust samples from representative locations throughout the facility on December 17, 2012. Lead in dust sampling was conducted to determine existing lead-in-dust levels and to determine potential impacts related to the reported use of the basement as an indoor firing range. On December 10, 2012, Cardno ATC interviewed St. Johnsbury Police Chief Clement Houde and Corporal Gil Roberts regarding the possible former use of the armory building and the location of the former firing range. According to Cpl. Roberts, the building has not included an indoor firing range since at the latest 1992. Upon review of the space, it was determined that the range was likely located in the basement in the vicinity of rooms 26, 27, and 28. Based on this finding, lead in dust samples numbers 13-20 were collected within rooms 26 – 28 (as well as other areas of the building).

Although lead in dust samples are not a regulatory requirement prior to renovation activities, the “clearance levels” contained in the Vermont Regulations for Lead Control (V.S.A. Title 18, Chapter 38) were utilized as de facto target levels for this project. The Vermont clearance levels are 40 µg/ft<sup>2</sup> for floor samples and 250 µg/ft<sup>2</sup> for interior window sills.

For lead-abatement projects in Vermont, work areas must be cleaned until clearance dust samples indicate levels of lead-in dust are below the clearance levels. The clearance levels are commonly utilized outside of lead-abatement projects as standards to determine if a response action is needed related to lead in dust contamination. All lead in dust samples were analyzed by EMSL Analytical, Inc. of Cinnaminson NJ by Analytical Method SW846-6010B/C ICP-AES. The following **Table 2** summarizes lead in dust sampling results

<b>Table 2 : Pre Renovation Lead in Dust Sample Results</b>				
<b>Sample Number</b>	<b>Room # / Location</b>	<b>Floor</b>	<b>Lead Concentration ( <math>\mu\text{g}/\text{ft}^2</math> )</b>	<b>VT Clearance Level ( <math>\mu\text{g}/\text{ft}^2</math> )</b>
F-01	03-Floor	2 <sup>nd</sup>	52	40
S-02	03 – Sill	2 <sup>nd</sup>	86,000	250
F-03	08 – Floor	2 <sup>nd</sup>	250	40
S-04	08 - Sill	2 <sup>nd</sup>	20,000	250
F-05	04 - Floor	2 <sup>nd</sup>	230	40
F-06	10 - Floor	2 <sup>nd</sup>	130	40
F-07	12 - Floor	1 <sup>st</sup>	2.7	40
S-08	12 - Sill	1 <sup>st</sup>	1,200	250
F-09	16 - Floor	1 <sup>st</sup>	21	40
S-10	16 - Sill	1 <sup>st</sup>	4,300	250
F-11	17 - North Floor	1 <sup>st</sup>	6	40
F-12	17 - South Floor	1 <sup>st</sup>	7.5	40
F-13	26 - East Floor	Basement	430	40
F-14	26 - Center Floor	Basement	350	40
F-15	26 - West Floor	Basement	340	40
S-16	26 - East Sill	Basement	860	250
S-17	26 - Center Sill	Basement	1,800	250
S-18	26 - West Sill	Basement	390	250
F-19	28 - Floor	Basement	83	40
F-20	27 - Floor	Basement	260	40
F-21	29 - Floor	Basement	670	40
F-22	32 - Floor	Basement	590	40
F-23	21 - Floor	Basement	510	40
F-24	23 - Floor	Basement	2,600	40
F-25	Field Blank	NA	BDL	Not Applicable
F-26	Blind Spike*	NA	180 $\mu\text{g}$	Not Applicable

\* - Spike Known Value of 232.6  $\mu\text{g}$

As noted in **Table 2**, lead-in-dust results above target/clearance levels were identified in all levels of the building. Sample results above the target levels are shaded in **Table 2**; rooms where the former firing range was apparently located have also been highlighted (in yellow) in **Table 2**.

#### 2.4.1 Lead in Dust Quality Assurance/Quality Control

Pursuant to QA/QC procedures within the SSQAPP Cardno ATC submitted one "blind" lead-in-dust spike sample (sample # F-26) with a known lead content of 232.6 µg. Pursuant to the SSQAPP the acceptance criteria is within +/- 30% of the known lead content (162.82 – 302.38 µg). The analysis result of the spike sample was 180 µg and therefore falls within the acceptance criteria. In addition, no lead was detected in the field blank (sample # F-25).

**Appendix D** contains the lead in dust sample location diagram (which includes the approximate location of the former firing range) and the lead in dust laboratory hardcopy results.

#### 2.4.2 Lead in Dust Recommendations

- Copies of this report should be provided to the general contractor and demolition contractor to assist with compliance to VOSHA Lead in Construction Standard.
- Subsequent to renovation/demolition activities a lead-specific final cleaning should be conducted in all areas and lead in dust sampling should be completed prior to building occupancy.

#### 2.5 Indoor Air Quality Investigation

Pursuant to the SSQAPP, Cardno ATC conducted air sampling for culturable fungi and total fungal structures in four (4) indoor locations and one (1) outdoor location for comparison. *The mold assessment was conducted pursuant to the Cardno ATC "Guidelines for Environmental Sampling for Microbial Contamination" (April 2002) hereby incorporated into the Cardno ATC Generic QAPP as Cardno ATC SOP F-SOP-1.21.*

Cardno ATC utilized an Andersen N6 sampler to collect the airborne culturable mold samples on malt extract agar plates for 5 minutes at a flow rate of approximately 27.29 liters per minute. Zefon Air-O-Cell™ microbial spore trap cassettes and a Buck Bio-Aire sampling pump (serial number B150547) were used to collect each sample of total airborne fungal structures for 10 minutes at a flow rate of 15 liters per minute. Both bioaerosol sampling techniques were calibrated prior to sample collection. Bulk (swab) samples were also collected in areas of apparent mold growth.

The air and bulk samples were submitted to EMSL Analytical Inc. of Cinnaminson NJ for analysis of predominant mold species and concentrations.

The American Conference of Governmental Industrial Hygienists (ACGIH) considers comparison of indoor/outdoor bioaerosol data a common method for evaluating indoor fungal reservoirs or concerns. In well maintained indoor environments, the total concentrations of fungi in the indoor air are commonly equal to, or less than, the total concentration outdoors. If indoor fungal bioaerosol concentrations are greater than those outdoors, then indoor fungal reservoirs are likely to be present (however winter conditions will generally result in lower outdoor levels). In addition, the types (i.e., taxa or groups) of fungal bioaerosols found inside a building should be qualitatively similar to the taxa recovered outdoors; presuming outdoor air is the only source of indoor fungal bioaerosols. There are no regulatory standards or other widely accepted numerical guidelines available for interpretation of bioaerosol data. Current ACGIH guidelines refrain from providing numerical thresholds for bioaerosols.

The following **Table 3** presents the total quantitative results for the culturable air samples:

<b>Table 3: Culturable Sample Analysis</b>			
<b>Sample Number</b>	<b>Location</b>	<b>Predominant Species</b>	<b>Total CFU/m<sup>3</sup></b>
IP-01	Exterior – North Door	<i>Penicillium</i>	98
IP-02	Room 3 – 2 <sup>nd</sup> Floor	<i>Aspergillus</i>	210
IP-03	Room 11 – 1 <sup>st</sup> Floor	<i>Aspergillus</i>	511
IP-04	Room 25 - Basement	<i>Aspergillus</i>	252
IP-05	Field Blank	<i>None Detected</i>	-

Predominant culturable species found indoors (*Aspergillus*) were different than the predominant species noted outdoors (*Penicillium*). The outdoor total was lower than indoor concentrations. Based on Cardno ATC's experience the indoor levels are not considered significantly elevated and due to ambient temperatures being at or below freezing (which would serve to reduce the total cultural spore concentrations and types found outside) it is not unusual for indoor levels to exceed outdoor levels under these conditions. The predominant types of fungi identified (inside and outside) are common types of fungi. Based on Cardno ATC's experience the culturable levels identified do not represent a significant concern.

The following **Table 4** presents the quantitative results for the total airborne fungal structure samples:

<b>Table 4: Total Airborne Fungal Structure Sample Analysis</b>			
<b>Sample Number</b>	<b>Location</b>	<b>Predominant Species</b>	<b>Total Structures/m<sup>3</sup></b>
Z-01	Exterior – North Door	<i>Aspergillus/Penicillium</i>	611
Z-02	Room 3 – 2 <sup>nd</sup> Floor	<i>Aspergillus/Penicillium</i>	577
Z-03	Room 11 – 1 <sup>st</sup> Floor	<i>Aspergillus/Penicillium</i>	458
Z-04	Room 25 - Basement	<i>Aspergillus/Penicillium</i>	3,187
Z-05	Field Blank	<i>None Detected</i>	-

The predominant spore types found outdoors were similar to the indoor predominant types (*Aspergillus/Penicillium*) and except for the basement sample the totals were similar as well. The basement (room 25) level however, did indicate a possible amplification of *Aspergillus/Penicillium* fungal types.

The following **Table 5** presents the total qualitative results for the swab samples:

<b>Table 5: Fungal Structure Swab Sample Analysis</b>					
<b>Sample Number</b>	<b>Location</b>	<b>Substrate</b>	<b>Area (ft<sup>2</sup>)</b>	<b>Predominant Species</b>	<b>Category Count</b>
S-01	Room 16/11 – wall Bottom of Stairs	<i>Plaster</i>	<1	<i>Chaetomium</i>	High
				<i>Penicillium</i>	Medium
				<i>Aspergillus</i>	Rare
S-02	Room 03 – West Wall	<i>Plaster</i>	<1	<i>Penicillium/Aspergillus</i>	Rare
				<i>Cladosporium</i>	Rare
S-03	Room 16 – Ceiling	<i>Structural Wood</i>	25	<i>None Detected</i>	-
S-04	Field Blank	<i>Not Applicable</i>	<i>Not Applicable</i>	<i>None Detected</i>	-

As noted in Table 5 above, only limited areas of apparent visual fungal growth were noted by Cardno ATC Swab samples (samples S-01, S-02 and S-03) were collected from areas of apparent growth. Analysis of swab samples for fungal spores and structures indicated the presence of common fungal structures on only two of the three swab samples. Extensive fungal growth was not observed by Cardno ATC within the building. **Appendix E** includes the fungi sample location diagram and laboratory hardcopy results of the fungi sampling.

### 2.5.1 IAQ Quality Assurance/Quality Control

Indoor air quality sampling was conducted pursuant to Cardno ATC's "Guidelines for Environmental Sampling for Microbial Contamination". One field blank sample was collected for each type of fungal analysis. No contamination was noted on any of the field blank samples.

### 2.5.2 IAQ Recommendations

- If significant fungal growth is identified during renovation/demolition activities, removal of the growth should be conducted pursuant to the EPA document Mold Remediation in Schools and Commercial Buildings (EPA 402-K-01-001).
- Subsequent to renovation/demolition activities a final HEPA cleaning should be conducted in the basement area.
- Any sources of water infiltration should be corrected. Continued water infiltration (such as roof leaks) would likely cause additional IAQ related problems. If renovations are not planned for the near-future, additional mold sampling may be warranted.

## 2.6 SEDIMENT SAMPLING AND DYE TEST

Cardno ATC conducted an investigation related to the presence of the floor drain system in the basement, to help determine potential impacts to the subsurface related to potential vehicle maintenance previously conducted in the basement level. The investigation included a visual inspection of the drain system, interviewing individuals with knowledge of the building's historical use, sampling of sediment in the floor drain itself, as well as performing a dye tracing test to determine the discharge location of the drain system.

The floor drain system in the basement consists of an exterior catch basin adjacent to the southwest entrance, an abandoned trench drain in the southwest corner, a floor drain to the north of the trench drain, a sump pump adjacent to the floor drain and a clean-out pit in the northeast corner of the basement. All the basement catch basins and sump/pump appear to discharge to the main wastewater line for the building which runs along the north wall and to the cleanout-pit (see dye-test results below). **Appendix F** contains a diagram of the configuration of the floor drain system.

On December 10, 2012, Cardno ATC interviewed St. Johnsbury Police Corporal Gil Roberts regarding the drainage configuration in the vicinity of room 28. Cpl. Roberts described the Police Department's historical use of the room (vehicle maintenance, cleaning, and storage) as well as drainage patterns during use.

The visual examination and Cpl. Roberts' description both indicated that wastewater entering the floor drain in room 28 flows north into the sump at the north end of room 28. A sump pump lifts that water into the building main wastewater line in room 29. From room 29, the main wastewater line runs east along the north wall of the basement, until it reaches a cleanout/trap in a pit in the northeast corner of room 21. From there it continues generally east to the city sewer under Main St.

On December 17, 2012, sediment samples from the floor drain in room 28 were collected to be analyzed for the following analytes: diesel range organics (S-01) via EPA SW-846 Method 8015B – DRO., mercury (S-03) via EPA SW-846 Method 7471B, metals (S-05) via EPA SW-846 Method 6010 C and volatile organic compounds (S-07) via EPA SW-846 Method 8260B. Duplicate samples were collected of each (S-02, S-04, S-06, and S-08, respectively). All sediment samples were collected pursuant to Cardno ATC's standard operating procedure F-SOP-1.7. The results of the sediment sampling were compared to the Soil Screening Values (SSVs) for industrial and commercial properties as listed in the Vermont Department of Environmental Conservation's "Investigation and Remediation of Contaminated Properties

Procedures". **Sediment concentrations of arsenic and bromomethane exceeded the SSVs.** It should be noted that concentrations of four analytes were identified in S-08 (duplicate) that were not identified in S-07. None of these additional detections exceeded the relevant SSV. A summary of sediment sample detections (from the initial sediment samples) are provided in the following **Table 6**:

<b>Table 6: Sediment Sample Detections</b>				
<b>Sample Number</b>	<b>Analyte</b>	<b>Result</b>	<b>SSV</b>	<b>Unit</b>
S-01	DRO*	120	1,000	mg/kg
S-03	Mercury	0.063	43	mg/kg
S-05	Antimony	0.54	410	mg/kg
S-05	Arsenic	2.5	1.6	mg/kg
S-05	Beryllium	0.38	2,000	mg/kg
S-05	Cadmium	0.45	800	mg/kg
S-05	Chromium	19.3	103	mg/kg
S-05	Copper	56.4	41,000	mg/kg
S-05	Lead	62.1	800	mg/kg
S-05	Nickel**	20.1	20,000	mg/kg
S-05	Zinc	101	310,000	mg/kg
S-07	Bromomethane	37	32	µg/kg
S-07	Acetone	310	630,000	µg/kg
S-07	Methyl acetate	120	1,000,000	µg/kg

\* - Diesel Range Organics, compared to the SSV for Total Petroleum Hydrocarbons

On December 18, 2013, a dye test was performed to confirm the discharge point of the building wastewater system. Hugh Wescott of the St. Johnsbury Department of Public Works (DPW) visited the site. Mr. Wescott indicated that he has no knowledge of any wastewater discharge from the armory building other than the main wastewater line to the city sewer. DPW provided access to a sewer junction (manhole) downstream of the armory. Dyed water was released into the cleanout in the northeast corner of room 21. Approximately six minutes later, dye was observed flowing through the downstream manhole, located east of the site in a parking lot off of Route 2 (this downstream manhole location is depicted on the Site Diagram).

The results of this investigation indicate the likelihood that any pollutant captured by the floor drain system in room 28 would have been discharged to the city wastewater system and it would be unlikely that a significant impact to the subsurface has occurred on site.

### 2.6.1 Sediment Sampling Quality Assurance/Quality Control

The sediment sampling was conducted pursuant to the Cardno ATC "Standard Procedure, Sediment Sampling" hereby incorporated into the Cardno ATC Generic QAPP as Cardno ATC SOP F-SOP-1.7. Of analytes that were detected in the sediment samples, only acetone (a common laboratory contaminant) was found in excess of the relative percent difference requirements established in the QAPP. It should be noted that, due to laboratory equipment malfunctions, analysis of the VOC duplicate samples was completed outside of the holding time. However, due to the relative consistency between the initial and duplicate samples Cardno ATC considers the data to be valid.

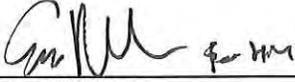
### 2.6.2 Sediment Sampling and Dye Test Recommendations

Results of the investigation indicate elevated levels of some pollutants in the floor drain sediment. Any sediment (likely less than on 55-gallon drum) associated with the floor drain system should be excavated and disposed of according to all applicable state and federal regulations.

### Signatures of Environmental Professionals

Cardno ATC has performed above activities in general conformance with the project QAPP (Addenda F-1) for the Former St. Johnsbury Armory located in St. Johnsbury, VT.

#### CARDNO ATC



---

Harland Miller  
Senior Environmental Technician



---

Devin Porter  
Senior Environmental Technician



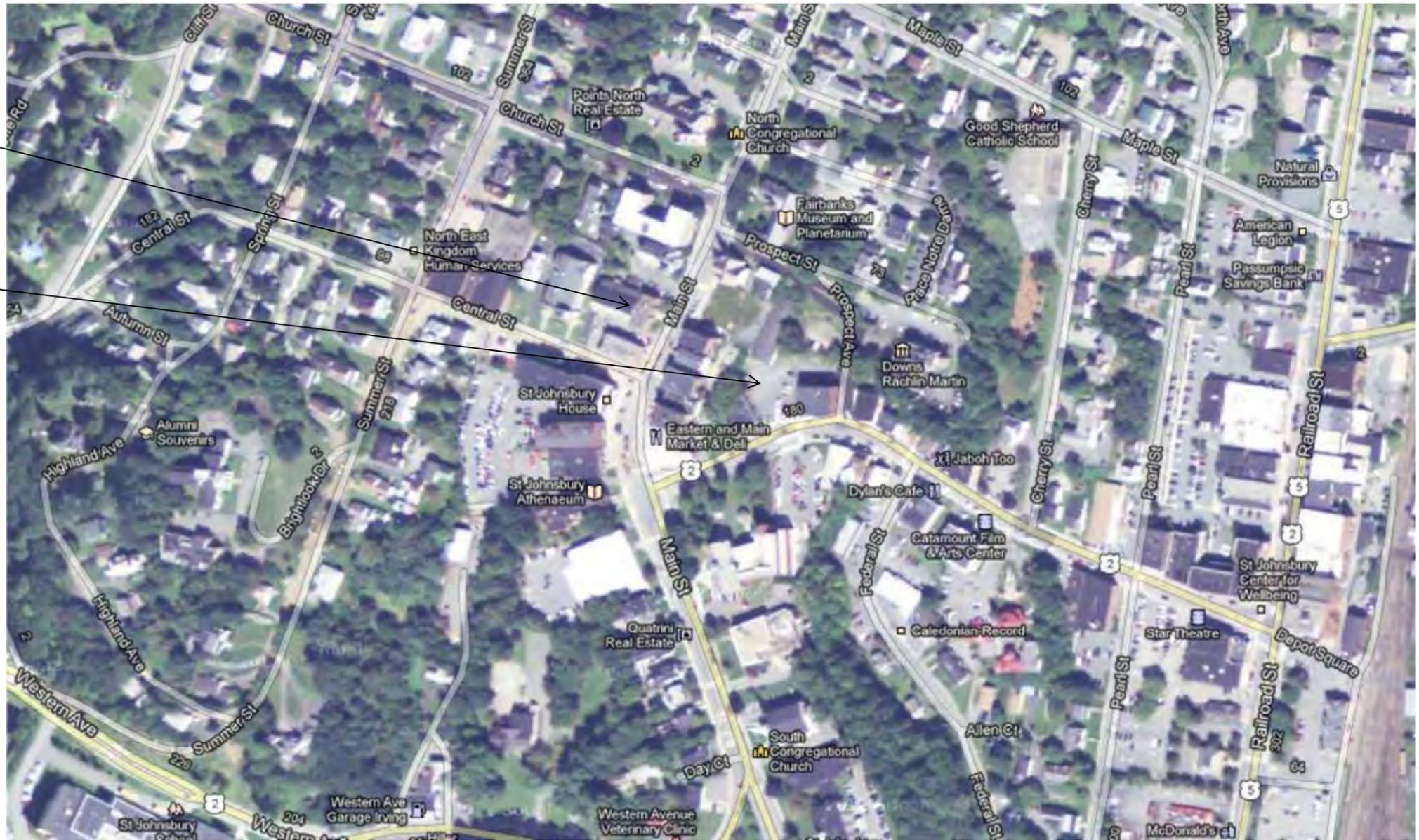
---

Andra Liberty  
Project Manager



---

Stephen Znamierowski  
Senior Project Manager



**SITE LOCATION DIAGRAM**

Address: St. Johnsbury Armory  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

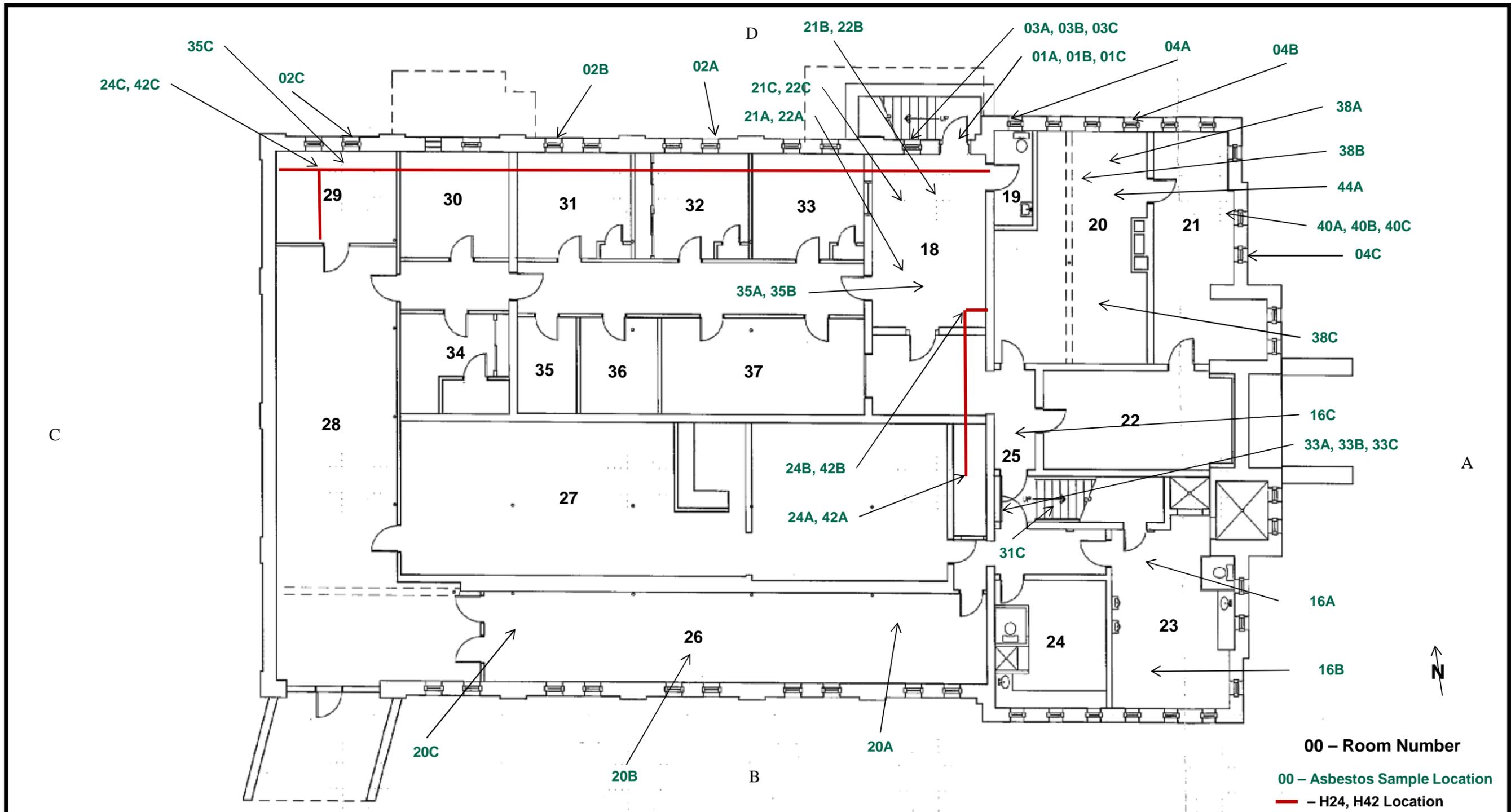
SOURCE : Field Notes

SCALE: Unknown

## **Appendix A**

Asbestos Sample Location Diagram  
List of Suspect Asbestos-Containing Materials  
Asbestos Laboratory Report

## Asbestos Sample Location Diagram



**SAMPLE LOCATION DIAGRAM – Asbestos**

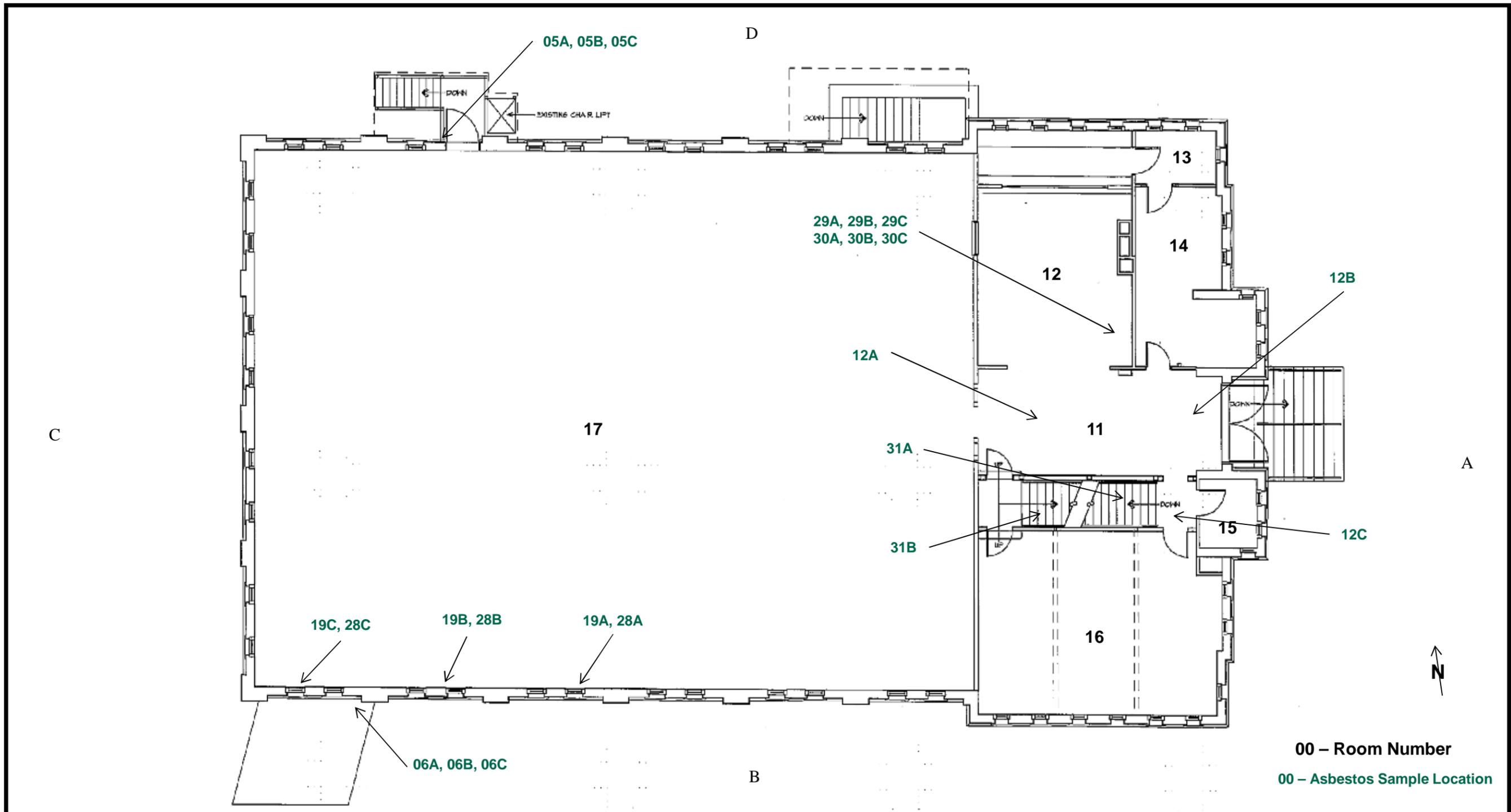
Address: St. Johnsbury Armory - Basement  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM – Asbestos**

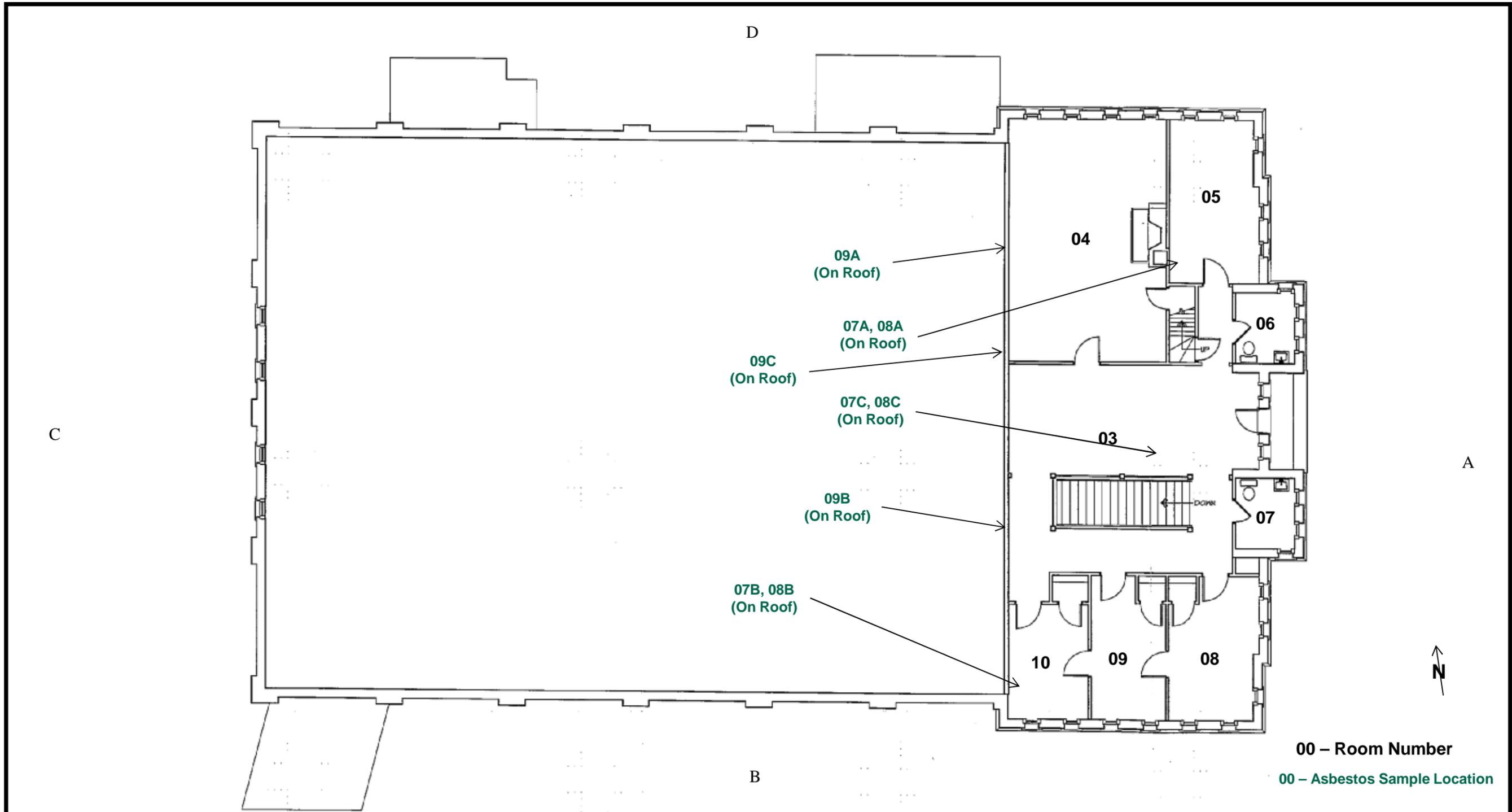
Address: St. Johnsbury Armory – 1<sup>st</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone:(802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM – Asbestos**

Address: St. Johnsbury Armory – 2<sup>nd</sup> Floor & Roof  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale

## List of Suspect Asbestos-Containing Materials

**List of Suspect Asbestos Containing Homogeneous Materials**  
**Former St. Johnsbury Armory**  
**1249 Main Street**  
**St. Johnsbury, Vermont**  
**December 10, 2012**  
**ATC Project # 63.35078.0013**  
**Page 1 of 5**

<u>Homogeneous Material</u>	<u>Description</u>	<u>% Asbestos</u>	<u>Sample Number</u>	<u>Approx. Quantities</u>
H1	Door Caulking – Exterior Gray	ND*	01A-01C	NA
H2	Window Caulking – Exterior White	ND*	02A-02C	NA
H3	Window Glazing – Exterior White		03A-03C	NA
<b>H4</b>	<b>Window Caulking – Exterior White</b>	<b>Trace*</b>	<b>04A-04C</b>	<b>NQ</b> Exterior window to brick
<b>H5</b>	<b>Tar Brick Caulking - Exterior</b>	<b>Trace*</b>	<b>05A-05C</b>	<b>NQ</b> Exterior under roof edge
H6	Flashing- Exterior Silver	ND*	06A-06 C	NA
H7	Roof Field – Built up pebble and Tar	ND*	07A-07C	NA
H8	Roofing Felt	ND*	08A-08C	NA
H9	Caulk at Gambrel Flashing – Exterior Black	ND*	09A-09C	NA
H10	2x4 Ceiling tile – Worms and Pinholes	ND	Previously Sampled	NA
<b>H11</b>	<b>Plaster Walls and Ceilings</b>	<b>2%</b>	<b>Previously Sampled</b>	<b>NQ</b> Throughout facility
H12	Carpet Mastic	ND*	12A-12C	NA

ND = Non Detected by Polarized Light Microscopy (PLM)  
 NA= Not Applicable                      NQ = Not Quantified

\* - PLM is not consistently reliable for detecting asbestos in non-friable organically bound (NOB) materials (e.g. floor tiles, roofing, mastics). Therefore if PLM analysis has concluded that asbestos was not detected in a non-friable organically bound material, Quantitative TEM with NOB prep is the recommended analytical method that should be used to confirm that a material is negative.

Trace: Materials containing “trace” amounts of asbestos (<1%) are not considered Asbestos Containing Materials (ACM) by the US EPA and many state agencies. However, certain sections of OSHA standard 29 CFR 1926.1101 apply when such materials are subject to demolition. Refer to “OSHA Standard Interpretation and Compliance Letter” dated 8/13/1999, subject: “Requirements for demolition operations involving material containing <1% asbestos”.

**List of Suspect Asbestos Containing Homogeneous Materials**  
**Former St. Johnsbury Armory**  
**1249 Main Street**  
**St. Johnsbury, Vermont**  
**December 10, 2012**  
**ATC Project # 63.35078.0013**  
**Page 2 of 5**

<u>Homogeneous Material</u>	<u>Description</u>	<u>% Asbestos</u>	<u>Sample Number</u>	<u>Approx. Quantities</u>
H13	Gypsum Wall Board	ND	Previously Sampled	NA
H14	Joint Compound	ND	Previously Sampled	NA
<b>H15</b>	<b>Door Insulation</b>	<b>Assumed Positive</b>	<b>NS</b>	<b>1 Safe door Basement</b>
H16	Floor Paint - Gray	ND*	16A-16C	NA
H17	Decorative Coating	ND*	17A-17C	NA
H18	Ceiling Tile Panels – 4x4 Gypsum	ND*	Previously Sampled	NA
H19	Wall Paint - White	ND*	19A-19C	NA
H20	Floor Paint - Blue	ND*	20A-20C	NA
H21	12x12 Floor Tile - Beige	ND*	21A-21C	NA
H22	Mastic associated with H21	ND*	22A-22C	NA
H23	Carpet Mastic	ND*	Previously Sampled	NA

ND = Non Detected by Polarized Light Microscopy (PLM)  
 NA= Not Applicable                      NQ = Not Quantified

\* - PLM is not consistently reliable for detecting asbestos in non-friable organically bound (NOB) materials (e.g. floor tiles, roofing, mastics). Therefore if PLM analysis has concluded that asbestos was not detected in a non-friable organically bound material, Quantitative TEM with NOB prep is the recommended analytical method that should be used to confirm that a material is negative.

Trace: Materials containing “trace” amounts of asbestos (<1%) are not considered Asbestos Containing Materials (ACM) by the US EPA and many state agencies. However, certain sections of OSHA standard 29 CFR 1926.1101 apply when such materials are subject to demolition. Refer to “OSHA Standard Interpretation and Compliance Letter” dated 8/13/1999, subject: “Requirements for demolition operations involving material containing <1% asbestos”.

**List of Suspect Asbestos Containing Homogeneous Materials**  
**Former St. Johnsbury Armory**  
**1249 Main Street**  
**St. Johnsbury, Vermont**  
**December 10, 2012**  
**ATC Project # 63.35078.0013**  
**Page 3 of 5**

<u>Homogeneous Material</u>	<u>Description</u>	<u>% Asbestos</u>	<u>Sample Number</u>	<u>Approx. Quantities</u>
H24	Aircell Pipe Insulation – 6” OD	40%	24A-24C	~100 LF Throughout basement maybe enclosed within walls & some debris on abated pipes
H25	2x4 Ceiling Tile – Pressed Board	ND	Previously Sampled	NA
H26	Brick associated with Fire place	Assumed Positive	NS	30 SF Second floor
H27	2x4 Ceiling Tile – Worm & Pinholes	ND*	Previously Sampled	NA
H28	Wall Coating – Window Sill White	ND*	28A-28C	NA
H29	Resilient Sheet Flooring – Blue & Maroon	ND*	29A-29C	NA
H30	Mastic associated with H29	ND*	30A-30C	NA
H31	Stair Tread Risers – Black	ND*	31A-31C	
H32	Boiler Insulation – Block type blue tinted	ND	Previously Samples	NA
H33	Glue Dabs – Brown	ND*	33A-33C	NA

ND = Non Detected by Polarized Light Microscopy (PLM)  
 NA= Not Applicable            NQ = Not Quantified

\* - PLM is not consistently reliable for detecting asbestos in non-friable organically bound (NOB) materials (e.g. floor tiles, roofing, mastics). Therefore if PLM analysis has concluded that asbestos was not detected in a non-friable organically bound material, Quantitative TEM with NOB prep is the recommended analytical method that should be used to confirm that a material is negative.

Trace: Materials containing “trace” amounts of asbestos (<1%) are not considered Asbestos Containing Materials (ACM) by the US EPA and many state agencies. However, certain sections of OSHA standard 29 CFR 1926.1101 apply when such materials are subject to demolition. Refer to “OSHA Standard Interpretation and Compliance Letter” dated 8/13/1999, subject: “Requirements for demolition operations involving material containing <1% asbestos”.

**List of Suspect Asbestos Containing Homogeneous Materials**  
**Former St. Johnsbury Armory**  
**1249 Main Street**  
**St. Johnsbury, Vermont**  
**December 10, 2012**  
**ATC Project # 63.35078.0013**  
**Page 4 of 5**

<u>Homogeneous Material</u>	<u>Description</u>	<u>% Asbestos</u>	<u>Sample Number</u>	<u>Approx. Quantities</u>
H34	Vibration Cloth	Assumed Positive	NS	4 SF Basement/Gym
H35	Blown-in Insulation	ND*	35A-35C	NA
H36	Boiler Insulation – Skim Coat	ND	Previously Samples	NA
<b>H37</b>	<b>Boiler Door Insulation</b>	<b>Assumed Positive</b>	<b>NS</b>	<b>4 SF Basement boiler room on boiler</b>
H38	Debris on Boiler, Exhaust, Duct & Hot water tank	ND*	38A-38C	NA
H39	Mastic on Concrete Floor	ND*	Previously Sampled	NA
H40	Pipe Putty	ND*	40A-40C	NA
H41	Sheet Flooring – Brown	ND*	Previously Sampled	NA
<b>H42</b>	<b>Mudded Joint Packing</b>	<b>33%</b>	<b>42A-42C</b>	<b>10 LF Throughout basement</b>

ND = Non Detected by Polarized Light Microscopy (PLM)  
 NA= Not Applicable            NQ = Not Quantified

\* - PLM is not consistently reliable for detecting asbestos in non-friable organically bound (NOB) materials (e.g. floor tiles, roofing, mastics). Therefore if PLM analysis has concluded that asbestos was not detected in a non-friable organically bound material, Quantitative TEM with NOB prep is the recommended analytical method that should be used to confirm that a material is negative.

Trace: Materials containing “trace” amounts of asbestos (<1%) are not considered Asbestos Containing Materials (ACM) by the US EPA and many state agencies. However, certain sections of OSHA standard 29 CFR 1926.1101 apply when such materials are subject to demolition. Refer to “OSHA Standard Interpretation and Compliance Letter” dated 8/13/1999, subject: “Requirements for demolition operations involving material containing <1% asbestos”.

**List of Suspect Asbestos Containing Homogeneous Materials**  
**Former St. Johnsbury Armory**  
**1249 Main Street**  
**St. Johnsbury, Vermont**  
**December 10, 2012**  
**ATC Project # 63.35078.0013**  
**Page 5 of 5**

<u>Homogeneous Material</u>	<u>Description</u>	<u>% Asbestos</u>	<u>Sample Number</u>	<u>Approx. Quantities</u>
H43	Boiler Internal Materials	Assumed Positive	NS	NQ Boiler Room on boiler
H44	Boiler Gasket	ND*	44A	NA

ND = Non Detected by Polarized Light Microscopy (PLM)  
 NA= Not Applicable            NQ = Not Quantified

\* - PLM is not consistently reliable for detecting asbestos in non-friable organically bound (NOB) materials (e.g. floor tiles, roofing, mastics). Therefore if PLM analysis has concluded that asbestos was not detected in a non-friable organically bound material, Quantitative TEM with NOB prep is the recommended analytical method that should be used to confirm that a material is negative.

Trace: Materials containing “trace” amounts of asbestos (<1%) are not considered Asbestos Containing Materials (ACM) by the US EPA and many state agencies. However, certain sections of OSHA standard 29 CFR 1926.1101 apply when such materials are subject to demolition. Refer to “OSHA Standard Interpretation and Compliance Letter” dated 8/13/1999, subject: “Requirements for demolition operations involving material containing <1% asbestos”.

## Asbestos Laboratory Report



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor  
New York, NY 10010  
Tel. 212-353-8280  
Fax: 212-353-8306

**Client:** ATC ASSOCIATES INC. - VERMONT  
171 COMMERCE ST., PO BOX 1486  
WILLISTON, VT 05495  
**Fax:** (802) 862-1405      **Phone:** (802) 862-1980  
**Project:** NVDA

**Sample Date :** 12/19/2012  
**Date Received :** 12/20/2012  
**Date Analyzed :** 12/21/2012  
**ATC Batch #** 25538

**Methods:** EPA 600/M4-82-020  
ELAP 198.1, 198.6 and 198.4

**Location:** ST. JOHNSBURY ARMORY, MAIN ST., ST. J., VERMONT  
**Project #** 63.35078.0013

## Bulk Asbestos Analysis Results

Sample #	Location	Type of Material	Method	<u>Non-Asbestos</u>		<u>NOB</u> % Type	<u>Asbestos</u> % Type
				% Fibrous	% Non-Fibrous		
01A 25538 -1	NORTH DOOR BASEMENT LEVER	DOOR CAULKING GRAY (EXTERIOR)	PLM	Trace% Cellulose	22% Mineral Filler 78% Organic Binders		NONE DETECTED
		Color: GRAY	Comments: NOB recommended				
01B 25538 -2	NORTH DOOR BASEMENT LEVER	DOOR CAULKING GRAY (EXTERIOR)	PLM	Trace% Cellulose	25% Mineral Filler 75% Organic Binders		NONE DETECTED
		Color: GRAY	Comments: NOB recommended				
01C 25538 -3	NORTH DOOR BASEMENT LEVER	DOOR CAULKING GRAY (EXTERIOR)	PLM	Trace% Cellulose	27% Mineral Filler 73% Organic Binders		NONE DETECTED
		Color: GRAY	Comments: NOB recommended				
02A 25538 -4	NORTH SIDE CENTER WINDOW	WINDOW CAULKING - WHITE (EXTERIOR)	PLM	Trace% Cellulose	18% Mineral Filler 82% Organic Binders		NONE DETECTED
		Color: WHITE	Comments: NOB recommended				
02B 25538 -5	NORTH SIDE WEST END 1ST FLOOR	WINDOW CAULKING - WHITE (EXTERIOR)	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders		NONE DETECTED
		Color: WHITE	Comments: NOB recommended				
02C 25538 -6	NORTH WEST CORNER WINDOW	WINDOW CAULKING - WHITE (EXTERIOR)	PLM	Trace% Cellulose	22% Mineral Filler 78% Organic Binders		NONE DETECTED
		Color: WHITE	Comments: NOB recommended				
03A 25538 -7	NORTH SIDE @ STAIRS BASEMENT LEVEL	WINDOW GLAZING (EXTERIOR)	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders		NONE DETECTED
		Color: WHITE	Comments: NOB recommended				



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB % Type	Asbestos % Type
				% Fibrous	% Non-Fibrous		
03B 25538 -8	SOUTH SIDE BASEMENT BY STAIRS	WINDOW GLAZING (EXTERIOR)	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders		NONE DETECTED
		Color: WHITE	Comments: NOB recommended				
03C 25538 -9	SOUTH SIDE, EAST CORNER	WINDOW GLAZING (EXTERIOR)	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders		NONE DETECTED
		Color: WHITE	Comments: NOB recommended				
04A 25538 -10	NORTH SIDE CENTER OF FRONT BLDG.	WINDOW CAULKING WHITE (EXTERIOR)	PLM	Trace% Cellulose	30% Mineral Filler 70% Organic Binders		Trace Chrysotile
		Color: WHITE	Comments: NOB recommended		Total Asbestos: TRACE <sup>12</sup>		
04B 25538 -11	WINDOW BY STAIRS NORTH SIDE	WINDOW CAULKING WHITE (EXTERIOR)	PLM	Trace% Cellulose	28% Mineral Filler 72% Organic Binders		Trace Chrysotile
		Color: WHITE	Comments: NOB recommended		Total Asbestos: TRACE <sup>12</sup>		
04C 25538 -12	FRONT OF BLDG. NE CORNER	WINDOW CAULKING WHITE (EXTERIOR)	PLM	Trace% Cellulose	32% Mineral Filler 68% Organic Binders		Trace Chrysotile
		Color: WHITE	Comments: NOB recommended		Total Asbestos: TRACE <sup>12</sup>		
05A 25538 -13	@ NORTH DOOR (GYM)	TAR COATING ON BRICK (EXTERIOR)	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders		Trace Chrysotile
		Color: BLACK	Comments: NOB recommended		Total Asbestos: TRACE <sup>12</sup>		
05B 25538 -14	@ NORTH DOOR (GYM)	TAR COATING ON BRICK (EXTERIOR)	PLM	Trace% Cellulose	22% Mineral Filler 78% Organic Binders		Trace Chrysotile
		Color: BLACK	Comments: NOB recommended		Total Asbestos: TRACE <sup>12</sup>		
05C 25538 -15	@ NORTH DOOR (GYM)	TAR COATING ON BRICK (EXTERIOR)	PLM	Trace% Cellulose	23% Mineral Filler 77% Organic Binders		Trace Chrysotile
		Color: BLACK	Comments: NOB recommended		Total Asbestos: TRACE <sup>12</sup>		
06A 25538 -16	@ SOUTH GARAGE	SILVER COATED FLASHING (EXT. ROOF)	PLM		21% Mineral Filler 79% Organic Binders		NONE DETECTED
		Color: SILVER	Comments: NOB recommended				
06B 25538 -17	@ SOUTH GARAGE	SILVER COATED FLASHING (EXT. ROOF)	PLM		18% Mineral Filler 82% Organic Binders		NONE DETECTED
		Color: SILVER	Comments: NOB recommended				



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	<u>Non-Asbestos</u>		<u>NOB</u> % Type	<u>Asbestos</u> % Type
				% Fibrous	% Non-Fibrous		
06C	@ SOUTH GARAGE	SILVER COATED FLASHING (EXT. ROOF)	PLM		20% Mineral Filler 80% Organic Binders		NONE DETECTED
25538 -18		Color: SILVER					
Analyzed By: Amr Fata				Comments: NOB recommended			
07A	@ HATCH	BUILT-UP TAR - ROOF	PLM	Trace% Cellulose	32% Mineral Filler 68% Organic Binders		NONE DETECTED
25538 -19		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
07B	@ SOUTH PARAPET DRAIN	BUILT-UP TAR - ROOF	PLM	Trace% Cellulose	35% Mineral Filler 65% Organic Binders		NONE DETECTED
25538 -20		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
07C	@ CENTER OF ROOF	BUILT-UP TAR - ROOF	PLM	Trace% Cellulose	30% Mineral Filler 70% Organic Binders		NONE DETECTED
25538 -21		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
08A	SEE #07A	ROOFING FELT	PLM	Trace% Cellulose	18% Mineral Filler 82% Organic Binders		NONE DETECTED
25538 -22		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
08B	SEE #07B	ROOFING FELT	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders		NONE DETECTED
25538 -23		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
08C	SEE #07C	ROOFING FELT	PLM	Trace% Cellulose	22% Mineral Filler 78% Organic Binders		NONE DETECTED
25538 -24		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
09A	@ GAMBREL N.	BLACK CAULK @ GAMBREL	PLM	Trace% Cellulose	15% Mineral Filler 85% Organic Binders		NONE DETECTED
25538 -25		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
09B	@ GAMBREL S.	BLACK CAULK @ GAMBREL	PLM	Trace% Cellulose	15% Mineral Filler 85% Organic Binders		NONE DETECTED
25538 -26		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			
09C	@ GAMBREL CENTER	BLACK CAULK @ GAMBREL	PLM	Trace% Cellulose	15% Mineral Filler 85% Organic Binders		NONE DETECTED
25538 -27		Color: BLACK					
Analyzed By: Amr Fata				Comments: NOB recommended			



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	<u>Non-Asbestos</u>		<u>NOB</u> % Type	<u>Asbestos</u> % Type
				% Fibrous	% Non-Fibrous		
12A	ROOM 11 WEST END	CARPET MASTIC (1ST FLOOR)	PLM	11% Cellulose	17% Mineral Filler 72% Organic Binders		NONE DETECTED
25538 -28			Color: BROWN	Comments: NOB recommended			
12B	ROOM 11 @ STAIRS	CARPET MASTIC (1ST FLOOR)	PLM	8% Cellulose	17% Mineral Filler 75% Organic Binders		NONE DETECTED
25538 -29			Color: BROWN	Comments: NOB recommended			
12C	ROOM 11 OUTSIDE RM. 15	CARPET MASTIC (1ST FLOOR)	PLM	10% Cellulose	20% Mineral Filler 70% Organic Binders		NONE DETECTED
25538 -30			Color: BROWN	Comments: NOB recommended			
16A	ROOM 23 @ DOOR TO STAIRS	FLOOR PAINT GRAY (BASEMENT)	PLM	Trace% Cellulose	10% Mineral Filler  90% Paint		NONE DETECTED
25538 -31			Color: GRAY	Comments: NOB recommended			
16B	ROOM 23 SOUTH END	FLOOR PAINT GRAY (BASEMENT)	PLM	Trace% Cellulose	12% Mineral Filler  88% Paint		NONE DETECTED
25538 -32			Color: GRAY	Comments: NOB recommended			
16C	ROOM 25 @ ROOM 22	FLOOR PAINT GRAY (BASEMENT)	PLM	Trace% Cellulose	13% Mineral Filler  87% Paint		NONE DETECTED
25538 -33			Color: GRAY	Comments: NOB recommended			
19A	SAME AS 28C	WALL PAINT WHITE (ON BRICK)	PLM	Trace% Cellulose	15% Mineral Filler  85% Paint		NONE DETECTED
25538 -34			Color: WHITE	Comments: NOB recommended			
19B	SAME AS 28B	WALL PAINT WHITE (ON BRICK)	PLM	Trace% Cellulose	15% Mineral Filler  85% Paint		NONE DETECTED
25538 -35			Color: WHITE	Comments: NOB recommended			
19C	SAME AS 28A	WALL PAINT WHITE (ON BRICK)	PLM	Trace% Cellulose	15% Mineral Filler  85% Paint		NONE DETECTED
25538 -36			Color: WHITE	Comments: NOB recommended			
20A	ROOM 26 @ DOOR	FLOOR PAINT BLUE (BASEMENT)	PLM		12% Mineral Filler  88% Paint		NONE DETECTED
25538 -37			Color: BLUE	Comments: NOB recommended			



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB % Type	Asbestos % Type
				% Fibrous	% Non-Fibrous		
20B	ROOM 26 CENTER	FLOOR PAINT BLUE (BASEMENT)	PLM		10% Mineral Filler		
25538 -38					90% Paint		NONE DETECTED
Analyzed By: Amr Fata		Color: BLUE		Comments: NOB recommended			
20C	ROOM 26 WEST END	FLOOR PAINT BLUE (BASEMENT)	PLM		11% Mineral Filler		
25538 -39					89% Paint		NONE DETECTED
Analyzed By: Amr Fata		Color: BLUE		Comments: NOB recommended			
21A	ROOM 18 CENTER	12X12 FLOOR TILE - BEIGE	PLM		53% Mineral Filler 47% Organic Binders		
25538 -40							NONE DETECTED
Analyzed By: Amr Fata		Color: BEIGE		Comments: NOB recommended			
21B	ROOM 18 @ ROOM 19	12X12 FLOOR TILE - BEIGE	PLM		53% Mineral Filler 47% Organic Binders		
25538 -41							NONE DETECTED
Analyzed By: Amr Fata		Color: BEIGE		Comments: NOB recommended			
21C	ROOM 18 @ WEST SIDE CENTER	12X12 FLOOR TILE - BEIGE	PLM		51% Mineral Filler 49% Organic Binders		
25538 -42							NONE DETECTED
Analyzed By: Amr Fata		Color: BEIGE		Comments: NOB recommended			
22A	SAME AS 21A	MASTIC W/H21	PLM	Trace% Cellulose	10% Mineral Filler 90% Organic Binders		
25538 -43							NONE DETECTED
Analyzed By: Amr Fata		Color: BLACK		Comments: NOB recommended			
22B	SAME AS 21B	MASTIC W/H21	PLM	Trace% Cellulose	8% Mineral Filler 92% Organic Binders		
25538 -44							NONE DETECTED
Analyzed By: Amr Fata		Color: BLACK		Comments: NOB recommended			
22C	SAME AS 21C	MASTIC W/H21	PLM	Trace% Cellulose	10% Mineral Filler 90% Organic Binders		
25538 -45							NONE DETECTED
Analyzed By: Amr Fata		Color: BLACK		Comments: NOB recommended			
24A	ROOM 27 SAFE AREA	6" OD AIR CELL PIPE INSULATION	PLM	45% Cellulose	15% Mineral Filler		40% Chrysotile
25538 -46							
Analyzed By: Amr Fata		Color: GRAY		Comments: Total Asbestos: 40 %			
24B							
25538 -47							NOT ANALYZED
				Comments: Positive stop, see #24A			



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB % Type	Asbestos % Type
				% Fibrous	% Non-Fibrous		
24C							NOT ANALYZED
25538 -48							Comments: Positive stop, see #24A
28A	SOUTH SIDE GYM @ CENTER WINDOW	COATING ON BRICK AS WINDOW SILL	PLM	Trace% Cellulose	20% Mineral Filler 80% Organic Binders		NONE DETECTED
25538 -49							Color: GRAY Comments: NOB recommended
Analyzed By: Amr Fata							
28B	SOUTH SIDE GYM @ SW WINDOW	COATING ON BRICK AS WINDOW SILL	PLM	Trace% Cellulose	22% Mineral Filler 78% Organic Binders		NONE DETECTED
25538 -50							Color: GRAY Comments: NOB recommended
Analyzed By: Amr Fata							
28C	SOUTH SIDE GYM @ SW CORNER	COATING ON BRICK AS WINDOW SILL	PLM	Trace% Cellulose	24% Mineral Filler 76% Organic Binders		NONE DETECTED
25538 -51							Color: GRAY Comments: NOB recommended
Analyzed By: Amr Fata							
29A	ROOM 12 EAST WALL	RSF - BLUE & MAROON	PLM	Trace% Cellulose	38% Mineral Filler 62% Organic Binders		NONE DETECTED
25538 -52							Color: BLUE/MAROON Comments: NOB recommended
Analyzed By: Amr Fata							
29B	ROOM 12 EAST WALL	RSF - BLUE & MAROON	PLM	Trace% Cellulose	30% Mineral Filler 70% Organic Binders		NONE DETECTED
25538 -53							Color: BLUE/MAROON Comments: NOB recommended
Analyzed By: Amr Fata							
29C	ROOM 12 EAST WALL	RSF - BLUE & MAROON	PLM	Trace% Cellulose	34% Mineral Filler 66% Organic Binders		NONE DETECTED
25538 -54							Color: BLUE/MAROON Comments: NOB recommended
Analyzed By: Amr Fata							
30A	SAME AS 29A	MASTIC ASSOC. W/H29	PLM		8% Mineral Filler 92% Organic Binders		NONE DETECTED
25538 -55							Color: BEIGE Comments: NOB recommended
Analyzed By: Amr Fata							
30B	SAME AS 29B	MASTIC ASSOC. W/H29	PLM		6% Mineral Filler 94% Organic Binders		NONE DETECTED
25538 -56							Color: BEIGE Comments: NOB recommended
Analyzed By: Amr Fata							
30C	SAME AS 29C	MASTIC ASSOC. W/H29	PLM		10% Mineral Filler 90% Organic Binders		NONE DETECTED
25538 -57							Color: BEIGE Comments: NOB recommended
Analyzed By: Amr Fata							



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	<u>Non-Asbestos</u>		<u>NOB</u> % Type	<u>Asbestos</u> % Type
				% Fibrous	% Non-Fibrous		
31A	FIRST FLOOR @ BOTTOM OF STAIRS	STAIR RISERS BLACK	PLM	6% Cellulose	20% Mineral Filler 74% Organic Binders		NONE DETECTED
25538 -58							
Color: BLACK							
Analyzed By: Amr Fata      Comments: NOB recommended							
31B	FIRST FLOOR @ TOP OF STAIRS	STAIR RISERS BLACK	PLM	7% Cellulose	23% Mineral Filler 70% Organic Binders		NONE DETECTED
25538 -59							
Color: BLACK							
Analyzed By: Amr Fata      Comments: NOB recommended							
31C	BASEMENT STAIRS	STAIR RISERS BLACK	PLM	8% Cellulose	22% Mineral Filler 70% Organic Binders		NONE DETECTED
25538 -60							
Color: BLACK							
Analyzed By: Amr Fata      Comments: NOB recommended							
33A	ROOM 25 @ SAFE DOOR	GLUE DABS LT. BROWN	PLM	10% Cellulose	15% Mineral Filler 75% Organic Binders		NONE DETECTED
25538 -61							
Color: LT.BROWN							
Analyzed By: Amr Fata      Comments: NOB recommended							
33B	ROOM 25 @ SAFE DOOR	GLUE DABS LT. BROWN	PLM	12% Cellulose	18% Mineral Filler 70% Organic Binders		NONE DETECTED
25538 -62							
Color: LT.BROWN							
Analyzed By: Amr Fata      Comments: NOB recommended							
33C	ROOM 25 @ SAFE DOOR	GLUE DABS LT. BROWN	PLM	10% Cellulose	20% Mineral Filler 70% Organic Binders		NONE DETECTED
25538 -63							
Color: LT.BROWN							
Analyzed By: Amr Fata      Comments: NOB recommended							
35A	ROOM 18 CENTER	BLOWN IN INSULATION	PLM	Trace% Cellulose 90% FiberGlass	10% Mineral Filler		NONE DETECTED
25538 -64							
Color: LT.GRAY							
Analyzed By: Amr Fata      Comments:							
35B	ROOM 18 CENTER	BLOWN IN INSULATION	PLM	Trace% Cellulose 85% FiberGlass	15% Mineral Filler		NONE DETECTED
25538 -65							
Color: LT.GRAY							
Analyzed By: Amr Fata      Comments:							
35C	ROOM 29 EAST SIDE	BLOWN IN INSULATION	PLM	Trace% Cellulose 88% FiberGlass	12% Mineral Filler		NONE DETECTED
25538 -66							
Color: LT.GRAY							
Analyzed By: Amr Fata      Comments:							
38A	TOP OF BOILER RM. 20	DEBRIS	PLM	2% Cellulose	98% Mineral Filler		NONE DETECTED
25538 -67							
Color: BEIGE							
Analyzed By: Amr Fata							



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB % Type	Asbestos % Type
				% Fibrous	% Non-Fibrous		
38B	TOP OF HOT WATER TANK RM. 20	DEBRIS	PLM	3% Cellulose	97% Mineral Filler		
25538 -68							NONE DETECTED
Color: BEIGE							
Analyzed By: Amr Fata							
38C	TOP OF EXHAUST RM. 20	DEBRIS	PLM	4% Cellulose	96% Mineral Filler		
25538 -69							NONE DETECTED
Color: BEIGE							
Analyzed By: Amr Fata							
40A	EAST WALL CENTER RM. 21	PUTTY ON PIPE	PLM	Trace% Cellulose	28% Mineral Filler 72% Organic Binders		
25538 -70							NONE DETECTED
Color: DK.GRAY							
Comments: NOB recommended							
Analyzed By: Amr Fata							
40B	EAST WALL CENTER RM. 21	PUTTY ON PIPE	PLM	Trace% Cellulose	30% Mineral Filler 70% Organic Binders		
25538 -71							NONE DETECTED
Color: DK.GRAY							
Comments: NOB recommended							
Analyzed By: Amr Fata							
40C	EAST WALL CENTER RM. 21	PUTTY ON PIPE	PLM	Trace% Cellulose	32% Mineral Filler 68% Organic Binders		
25538 -72							NONE DETECTED
Color: DK.GRAY							
Comments: NOB recommended							
Analyzed By: Amr Fata							
42A	SAME AS 24A	MJP 6" OD ASSOC. WH24	PLM	Trace% Cellulose	67% Mineral Filler		33% Chrysotile
25538 -73							
Color: LT.GRAY							
Analyzed By: Amr Fata							
							<b>Total Asbestos: 33 %</b>
42B							
25538 -74							NOT ANALYZED
Comments: Positive stop, see #42A							
42C							
25538 -75							NOT ANALYZED
Comments: Positive stop, see #42A							
44A	@ FRONT OF BOILER	BOILER GASKET	PLM	2% Cellulose 5% FiberGlass	10% Mineral Filler 83% Organic Binders		
25538 -76							NONE DETECTED
Color: BLACK							
Comments: NOB recommended							
Analyzed By: Amr Fata							



# ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor

New York, NY 10010

Tel. 212-353-8280

Fax: 212-353-8306

Sample #	Location	Type of Material	Method	Non-Asbestos		NOB	Asbestos
				% Fibrous	% Non-Fibrous	% Type	% Type

NOTES:

- 1) The Limit of Detection is the same as the Reporting Limit for these results.
- 2) The Reporting Limit (RL) is the Limit of Quantitation. For point counts the limit of quantitation of 0.25%; based on one asbestos point counter over 400 non-empty points.
- 3) Asbestos Containing Material (ACM) Definition: > 1% asbestos by weight is considered an ACM
- 4) Disclaimer: The laboratory is not responsible for sample collection. Please refer to enclosed letter. This report may not be reproduced, except in full, without written approval by ATC Associates Inc. This report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. This report relates only to the samples reported above as described in the chain of custody. Quality control data is available upon request.
- 5) Accredited by NVLAP #101187-0 and by NY State ELAP #10679
- 6) Confidentiality Notice: The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.
- 7) Liability Notice: ATC Associates Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples. This report relates only to samples submitted and analyzed.
- 8) When the results display more than three digits, only the first three are significant. The data within this report is reliable to 3 significant figures.
- 9) The condition of all samples was acceptable upon receipt.
- 10) The laboratory certifies that the test results meet all requirements of NELAC.
- 11) Supplement to test report batch # \_\_\_\_\_, Amendments: \_\_\_\_\_, Amendment Dates: \_\_\_\_\_, Amended by: \_\_\_\_\_
- 12) PLM Letter is attached on this report.
- 13) TRACE: The result is reported as Trace when No points are counted and asbestos is identified. For ELAP Trace is < 1%.
- 14) ATC certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis
- 15) The uncertainty for these test results is available upon request.
- 16) Assume ACM if Vermiculite is ≥ 10%. Not Reported Vermiculite means Not Detected

Amr Fata

Analyst:

Milena Bonezzi

Approved by

Laboratory Director:



# BULK ASBESTOS ANALYSIS RESULTS

## PLM Analysis Methodology

The samples were analyzed by industry accepted methods in accordance with EPA and ELAP methods using Polarized Light Microscopy (PLM) with dispersion staining in conjunction with stereoscopy analysis. Point counts are performed on samples regulated by these agencies. The Environmental Laboratory Approval Program (ELAP) has determined that analysis of non-friable organically bound materials (i.e. floor tile, roofing, etc.) and ceiling tiles with cellulose is not reliable when performed by Polarized Light Microscopy (PLM) method. Therefore, if this analysis included that of non-friable materials or ceiling tiles with cellulose under PLM and the results were negative, ATC must add this disclaimer to maintain our ELAP accreditation:

" Polarized light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing"

Non-friable samples that contained *Trace* or *No* PLM detectable asbestos are classified as Inconclusive. Samples that are layered and analyzed by the gravimetric method as composites (NESHAP, AHERA) should be considered positive if results are between trace and 1%, unless every layer is analyzed separately.

ELAP requires that materials containing vermiculite at 10% or more must be reported as ACM.

EPA does not regulate mixed mineral assemblage like the anthophyllite-talc intergrowth that is found in paint and caulking unless these materials contain asbestos in an amount greater than 1%. Anthophyllite detected in paint and caulking samples might be a talc intergrowth.

ATC has the capability of performing TEM confirmation if so desired.

All bulk sample reports are checked and reviewed two times. Unused portions of samples are archived for three months unless client requests special handling. This report must not be used by the client to claim product endorsement by NIST or any agency of the U.S. government.

ATC Associates Inc. is not responsible for sample collection and analytical procedures not performed by our laboratory. This report may not be reproduced in part without the laboratory permission.

ATC Associates will not be liable for analytical results from samples that are not prepared according to the standard methods (EPA, ELAP, etc.) used by the laboratory (e.g. composite samples from different locations, samples with insufficient volumes, straight TEM samples without gravimetric procedures, dust samples, non-friable samples by PLM only).

## Laboratory Equipment

Laboratory analysis was accomplished utilizing Olympus BH-2 Microscopes.

## Quality Control

ATC Associates Inc. is accredited by NVLAP (Lab Code 101187-0) and NY State DOH ELAP (Lab ID 10879) for bulk and air fiber analyses. ATC participates in the Bulk Asbestos Sample Quality Assurance Programs for NVLAP and ELAP and maintains an in-house QC/QA program for bulk samples whereby 10% of all submitted samples are reanalyzed and documented in a Quality Control Manual. ATC also participates in a quarterly round robin QC/QA program for bulk samples with several accredited laboratories throughout the United States. Current and past QC/QA program results are available in the laboratory for inspection.

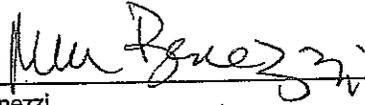
## Accuracy and Precision

The phase abundances provided by point count may be considered within the limits of variability inherent in the method employed. For point counts the detection limit of 0.25% is based on one asbestos point counted over 400 non-empty points. If no points are counted and asbestos is identified, the result will be reported as trace. For ELAP trace is < 1%.

The analyses were supervised by Milena Bonezzi, Director of Laboratory Services, who has extensive experience in asbestos analysis by PLM and other methods. Please contact me regarding any questions relating to these materials at 212-353-8280 Ext. 247.

1. EPA Methods: 600/M4-82-020 and 600/R-93/116
2. ELAP Method: 4088 Items 198.1 and 198.4 and 198.6

Sincerely,

  
 Milena Bonezzi  
 ATC Associates Inc.  
 Director of Laboratory Services



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 101167-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-2/  
 NIKON OPTIPHOT

Client / Project: Ats Vermont / Main St 63-35078-0013  
 Analysis Date: 12/21/12 Analyst: AF  
 Batch Number: 25538 Project Number: 63-35078-0013  
 TEMPERATURE °C: 25

1	Field Number	<u>1A</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required <input type="checkbox"/>	Color <u>Gray</u>	Texture <u>AF</u>	Morphology	Extinction	Chrysotile	<u>12</u> Cellulose	<u>22</u> Mineral Filler	Organic	
	Recommended <input checked="" type="checkbox"/>	Homogeneity	Asbestos <input type="checkbox"/>	RI, L	RI II	Amosite	Fiberglass	<u>78</u> Organic Binders	NA Residue Nfr	
	Gravimetric (NOB) PLM <input type="checkbox"/>	# of Layers	Detected Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	DS Color	Color, Pleo	Other	Other	<u>0</u> Vermiculite	Carbonate	
	Gravimetric (NOB) TEM <input type="checkbox"/>	Color of Layer	Comments:	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite <input type="checkbox"/> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>		Other	Vermiculite	
						Q.C. <input type="checkbox"/>			NA Residue Fr	Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2								NOB PLM: _____

2	Field Number	<u>1B</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required <input type="checkbox"/>	Color <u>Gray</u>	Texture <u>AF</u>	Morphology	Extinction	Chrysotile	<u>12</u> Cellulose	<u>25</u> Mineral Filler	Organic	
	Recommended <input checked="" type="checkbox"/>	Homogeneity	Asbestos <input type="checkbox"/>	RI, L	RI II	Amosite	Fiberglass	<u>75</u> Organic Binders	NA Residue Nfr	
	Gravimetric (NOB) PLM <input type="checkbox"/>	# of Layers	Detected Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	DS Color	Color, Pleo	Other	Other	<u>0</u> Vermiculite	Carbonate	
	Gravimetric (NOB) TEM <input type="checkbox"/>	Color of Layer	Comments:	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite <input type="checkbox"/> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>		Other	Vermiculite	
						Q.C. <input checked="" type="checkbox"/>			NA Residue Fr	Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2								NOB PLM: _____

3	Field Number	<u>1C</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required <input type="checkbox"/>	Color <u>Gray</u>	Texture <u>AF</u>	Morphology	Extinction	Chrysotile	<u>12</u> Cellulose	<u>27</u> Mineral Filler	Organic	
	Recommended <input checked="" type="checkbox"/>	Homogeneity	Asbestos <input type="checkbox"/>	RI, L	RI II	Amosite	Fiberglass	<u>73</u> Organic Binders	NA Residue Nfr	
	Gravimetric (NOB) PLM <input type="checkbox"/>	# of Layers	Detected Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	DS Color	Color, Pleo	Other	Other	<u>0</u> Vermiculite	Carbonate	
	Gravimetric (NOB) TEM <input type="checkbox"/>	Color of Layer	Comments:	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite <input type="checkbox"/> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>		Other	Vermiculite	
						Q.C. <input type="checkbox"/>			NA Residue Fr	Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2								NOB PLM: _____

4	Field Number	<u>2A</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Gravimetric (NOB) Required <input type="checkbox"/>	Color <u>White</u>	Texture <u>AF</u>	Morphology	Extinction	Chrysotile	<u>12</u> Cellulose	<u>19</u> Mineral Filler	Organic	
	Recommended <input checked="" type="checkbox"/>	Homogeneity	Asbestos <input type="checkbox"/>	RI, L	RI II	Amosite	Fiberglass	<u>82</u> Organic Binders	NA Residue Nfr	
	Gravimetric (NOB) PLM <input type="checkbox"/>	# of Layers	Detected Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	DS Color	Color, Pleo	Other	Other	<u>0</u> Vermiculite	Carbonate	
	Gravimetric (NOB) TEM <input type="checkbox"/>	Color of Layer	Comments:	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite <input type="checkbox"/> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>		Other	Vermiculite	
						Q.C. <input type="checkbox"/>			NA Residue Fr	Asbestos
	POINT COUNT RESULTS ON THE BACK	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2								NOB PLM: _____



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NMLAP 101187-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-2/  
 NIKON OPTIPHOT

Client / Project: Asbestos / Main St, Vermont Project Number 25538  
 Analysis Date: 12/21/12 Analyst: AF Batch Number: 25538

TEMPERATURE °C 25

Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field Number <u>2B</u>	Color <u>White</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>Extinction</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>Color, Pleo</u> Biref <u>Sign</u> Comments:	Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>TR</u> Fiberglass <u>---</u> Other <u>---</u> <input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>20</u> Organic Binders <u>80</u> Vermiculite <u>0</u> Other <u>---</u>	Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Q.C. <input type="checkbox"/> NOB PLM: <u>---</u>						
2 Field Number <u>2C</u>	Color <u>White</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>Extinction</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>Color, Pleo</u> Biref <u>Sign</u> Comments:	Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>TR</u> Fiberglass <u>---</u> Other <u>---</u> <input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>22</u> Organic Binders <u>78</u> Vermiculite <u>0</u> Other <u>---</u>	Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Q.C. <input type="checkbox"/> NOB PLM: <u>---</u>						
3 Field Number <u>3A</u>	Color <u>White</u> Homogeneity <u>4</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>Extinction</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>Color, Pleo</u> Biref <u>Sign</u> Comments:	Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>TR</u> Fiberglass <u>---</u> Other <u>---</u> <input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>20</u> Organic Binders <u>80</u> Vermiculite <u>0</u> Other <u>---</u>	Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Q.C. <input type="checkbox"/> NOB PLM: <u>---</u>						
4 Field Number <u>3B</u>	Color <u>White</u> Homogeneity <u>4</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>Extinction</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>Color, Pleo</u> Biref <u>Sign</u> Comments:	Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>TR</u> Fiberglass <u>---</u> Other <u>---</u> <input checked="" type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>20</u> Organic Binders <u>80</u> Vermiculite <u>0</u> Other <u>---</u>	Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Q.C. <input type="checkbox"/> NOB PLM: <u>---</u>						



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 101187-2  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ate Vermont / Vermont AF Project Number 25538  
 Analysis Date: 12/24/12 Analyst: AF Batch Number 25538

TEMPERATURE °C

Field Number	POINT COUNT RESULTS ON THE BACK	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	3C	Color: <u>White</u> Homogeneity: <u>Y</u> # of Layers: <u>1</u> Color of Layer: <u>---</u> Comments: <u>---</u>	Morphology: <u>---</u> RI I: <u>---</u> DS Color: <u>---</u> Biref: <u>---</u> Extinction: <u>---</u> RI II: <u>---</u> Color, Pico: <u>---</u> Sign: <u>---</u>	Chrysotile: <u>---</u> Amosite: <u>---</u> Other: <u>---</u> <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose: <u>TR</u> Fiberglass: <u>---</u> Other: <u>---</u> Cellulose Ondulose Extinction: <u>---</u> Fiberglass Isotopic: <u>---</u> Synthetic High Birefringence: <u>---</u> Horse Hair: Scales, Low to Moderate Birefringence: <u>---</u>	Mineral Filler: <u>20</u> Organic Binders: <u>80</u> Vermiculite: <u>0</u> Other: <u>---</u>	Organic: <u>---</u> NA Residue Ntr: <u>---</u> Carbonate: <u>---</u> Vermiculite: <u>---</u> NA Residue Fr: <u>---</u> Asbestos: <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							
2	4A	Color: <u>White</u> Homogeneity: <u>Y</u> # of Layers: <u>1</u> Color of Layer: <u>---</u> Comments: <u>---</u>	Morphology: <u>---</u> RI I: <u>---</u> DS Color: <u>---</u> Biref: <u>---</u> Extinction: <u>---</u> RI II: <u>---</u> Color, Pico: <u>---</u> Sign: <u>---</u>	Chrysotile: <u>TR</u> Amosite: <u>---</u> Other: <u>---</u> <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose: <u>TR</u> Fiberglass: <u>---</u> Other: <u>---</u> Cellulose Ondulose Extinction: <u>---</u> Fiberglass Isotopic: <u>---</u> Synthetic High Birefringence: <u>---</u> Horse Hair: Scales, Low to Moderate Birefringence: <u>---</u>	Mineral Filler: <u>30</u> Organic Binders: <u>70</u> Vermiculite: <u>0</u> Other: <u>---</u>	Organic: <u>---</u> NA Residue Ntr: <u>---</u> Carbonate: <u>---</u> Vermiculite: <u>---</u> NA Residue Fr: <u>---</u> Asbestos: <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							
3	4B	Color: <u>White</u> Homogeneity: <u>Y</u> # of Layers: <u>6</u> Color of Layer: <u>---</u> Comments: <u>---</u>	Morphology: <u>---</u> RI I: <u>---</u> DS Color: <u>---</u> Biref: <u>---</u> Extinction: <u>---</u> RI II: <u>---</u> Color, Pico: <u>---</u> Sign: <u>---</u>	Chrysotile: <u>TR</u> Amosite: <u>---</u> Other: <u>---</u> <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose: <u>TR</u> Fiberglass: <u>---</u> Other: <u>---</u> Cellulose Ondulose Extinction: <u>---</u> Fiberglass Isotopic: <u>---</u> Synthetic High Birefringence: <u>---</u> Horse Hair: Scales, Low to Moderate Birefringence: <u>---</u>	Mineral Filler: <u>26</u> Organic Binders: <u>72</u> Vermiculite: <u>0</u> Other: <u>---</u>	Organic: <u>---</u> NA Residue Ntr: <u>---</u> Carbonate: <u>---</u> Vermiculite: <u>---</u> NA Residue Fr: <u>---</u> Asbestos: <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							
4	4C	Color: <u>White</u> Homogeneity: <u>Y</u> # of Layers: <u>1</u> Color of Layer: <u>---</u> Comments: <u>---</u>	Morphology: <u>---</u> RI I: <u>---</u> DS Color: <u>---</u> Biref: <u>---</u> Extinction: <u>---</u> RI II: <u>---</u> Color, Pico: <u>---</u> Sign: <u>---</u>	Chrysotile: <u>TR</u> Amosite: <u>---</u> Other: <u>---</u> <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose: <u>TR</u> Fiberglass: <u>---</u> Other: <u>---</u> Cellulose Ondulose Extinction: <u>---</u> Fiberglass Isotopic: <u>---</u> Synthetic High Birefringence: <u>---</u> Horse Hair: Scales, Low to Moderate Birefringence: <u>---</u>	Mineral Filler: <u>32</u> Organic Binders: <u>63</u> Vermiculite: <u>0</u> Other: <u>---</u>	Organic: <u>---</u> NA Residue Ntr: <u>---</u> Carbonate: <u>---</u> Vermiculite: <u>---</u> NA Residue Fr: <u>---</u> Asbestos: <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							



ATC ASSOCIATES INC. - NEW YORK  
104 East 25th Street, 10th Floor, New York, NY 10010  
Phone: (212) 363-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
NVLAP 101487-0  
ELAP 40879

Microscopes:  
OLYMPUS BH-27  
NIKON OPTIPHOT

Client / Project: Ate Vermont / Vermont State, Vermont Project Number 25338  
Analysis Date 12/21/12 Analyst: At Batch Number 25338  
TEMPERATURE °C 25

Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	Color <u>Black</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>W</u> RI I <u>1550</u> DS Color <u>Blk</u> Biref <u>L</u> Extinction <u>U</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	<u>TR</u> Chrysotile Amosite Other <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	<u>7h</u> Cellulose Fiberglass Other <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	<u>70</u> Mineral Filler <u>80</u> Organic Binders <u>0</u> Vermiculite Other	Organic NA Residue Nfr Carbonate Vermiculite NA Residue Fr Asbestos
POINT COUNT RESULTS ON THE BACK Method: <input checked="" type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
2	Color <u>Black</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>W</u> RI I <u>1549</u> DS Color <u>Blk</u> Biref <u>L</u> Extinction <u>U</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	<u>TR</u> Chrysotile Amosite Other <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	<u>TR</u> Cellulose Fiberglass Other <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	<u>22</u> Mineral Filler <u>78</u> Organic Binders <u>0</u> Vermiculite Other	Organic NA Residue Nfr Carbonate Vermiculite NA Residue Fr Asbestos
POINT COUNT RESULTS ON THE BACK Method: <input checked="" type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
3	Color <u>Black</u> Homogeneity <u>9</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>W</u> RI I <u>1548</u> DS Color <u>Blk</u> Biref <u>L</u> Extinction <u>U</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	<u>TR</u> Chrysotile Amosite Other <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	<u>TR</u> Cellulose Fiberglass Other <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	<u>23</u> Mineral Filler <u>77</u> Organic Binders <u>0</u> Vermiculite Other	Organic NA Residue Nfr Carbonate Vermiculite NA Residue Fr Asbestos
POINT COUNT RESULTS ON THE BACK Method: <input checked="" type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
4	Color <u>Silver</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>---</u> Comments:	Morphology <u>---</u> RI I <u>---</u> DS Color <u>---</u> Biref <u>---</u> Extinction <u>---</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	Chrysotile Amosite Other <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose Fiberglass Other <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	<u>21</u> Mineral Filler <u>79</u> Organic Binders <u>0</u> Vermiculite Other	Organic NA Residue Nfr Carbonate Vermiculite NA Residue Fr Asbestos
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NWLAP 101187-0  
 ELAP 10879

Miscellaneous:  
 OLYMPUS BH-2/  
 NIKON OPTIPHOT

Client / Project: Asbestos / Vermont / Main St / Shelburne Project Number 25538  
 Analysis Date: 2/21/12 Analyst: AF Batch Number 25538

TEMPERATURE °C 25

1	Field Number <u>6B</u>	Stereoscopic Exam Color <u>Silver</u> Homogeneity <u>X</u> # of Layers <u>1</u> Color of Layer <u>---</u>	PLM Optical Properties Morphology <u>---</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>---</u> Color, Pleo <u>---</u> Biref <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>---</u> Fiberglass <u>---</u> Other <u>---</u> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>18</u> Mineral Filler <u>82</u> Organic Binders <u>0</u> Vermiculite Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA <input type="checkbox"/> See Note # 1 or Note # 2							

2	Field Number <u>6C</u>	Stereoscopic Exam Color <u>Silver</u> Homogeneity <u>---</u> # of Layers <u>1</u> Color of Layer <u>---</u>	PLM Optical Properties Morphology <u>---</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>---</u> Color, Pleo <u>---</u> Biref <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>---</u> Fiberglass <u>---</u> Other <u>---</u> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>20</u> Mineral Filler <u>80</u> Organic Binders <u>0</u> Vermiculite Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA <input type="checkbox"/> See Note # 1 or Note # 2							

3	Field Number <u>7A</u>	Stereoscopic Exam Color <u>Black</u> Homogeneity <u>---</u> # of Layers <u>1</u> Color of Layer <u>---</u>	PLM Optical Properties Morphology <u>---</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>---</u> Color, Pleo <u>---</u> Biref <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % <u>32</u> Cellulose <u>68</u> Fiberglass <u>0</u> Other Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>32</u> Mineral Filler <u>68</u> Organic Binders <u>0</u> Vermiculite Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA <input type="checkbox"/> See Note # 1 or Note # 2							

4	Field Number <u>7B</u>	Stereoscopic Exam Color <u>Black</u> Homogeneity <u>---</u> # of Layers <u>1</u> Color of Layer <u>---</u>	PLM Optical Properties Morphology <u>---</u> RI I <u>---</u> RI II <u>---</u> DS Color <u>---</u> Color, Pleo <u>---</u> Biref <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % <u>35</u> Cellulose <u>65</u> Fiberglass <u>0</u> Other Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>35</u> Mineral Filler <u>65</u> Organic Binders <u>0</u> Vermiculite Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA <input type="checkbox"/> See Note # 1 or Note # 2							





ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 107187-0  
 ELAP 10379

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ave Vermont / Ave Vermont Project Number 25338  
 Analysis Date: 12/21/12 Analyst: AF Batch Number 25338  
 TEMPERATURE °C 25

Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field Number <u>9A</u>	Color: <u>Black</u> Homogeneity: <u>4</u> # of Layers: <u>2</u> Color of Layer: <u>2</u> Comments:	Morphology: <u>Extinction</u> RI I: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u> Comments:	Chrysotile: <input type="checkbox"/> Amosite: <input type="checkbox"/> Other: <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose: <u>72</u> Fiberglass: <u>0</u> Other: <u>0</u> <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler: <u>15</u> Organic Binders: <u>85</u> Vermiculite: <u>0</u> Other: <u>0</u>	Organic: <input type="checkbox"/> NA Residue Ntr: <input type="checkbox"/> Carbonate: <input type="checkbox"/> Vermiculite: <input type="checkbox"/> NA Residue Fr: <input type="checkbox"/> Asbestos: <input type="checkbox"/> NOB PLM:
2 Field Number <u>9B</u>	Color: <u>Black</u> Homogeneity: <u>4</u> # of Layers: <u>2</u> Color of Layer: <u>2</u> Comments:	Morphology: <u>Extinction</u> RI I: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u> Comments:	Chrysotile: <input type="checkbox"/> Amosite: <input type="checkbox"/> Other: <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose: <u>72</u> Fiberglass: <u>0</u> Other: <u>0</u> <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler: <u>15</u> Organic Binders: <u>85</u> Vermiculite: <u>0</u> Other: <u>0</u>	Organic: <input type="checkbox"/> NA Residue Ntr: <input type="checkbox"/> Carbonate: <input type="checkbox"/> Vermiculite: <input type="checkbox"/> NA Residue Fr: <input type="checkbox"/> Asbestos: <input type="checkbox"/> NOB PLM:
3 Field Number <u>9C</u>	Color: <u>Black</u> Homogeneity: <u>7</u> # of Layers: <u>2</u> Color of Layer: <u>2</u> Comments:	Morphology: <u>Extinction</u> RI I: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u> Comments:	Chrysotile: <input type="checkbox"/> Amosite: <input type="checkbox"/> Other: <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose: <u>72</u> Fiberglass: <u>0</u> Other: <u>0</u> <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler: <u>15</u> Organic Binders: <u>85</u> Vermiculite: <u>0</u> Other: <u>0</u>	Organic: <input type="checkbox"/> NA Residue Ntr: <input type="checkbox"/> Carbonate: <input type="checkbox"/> Vermiculite: <input type="checkbox"/> NA Residue Fr: <input type="checkbox"/> Asbestos: <input type="checkbox"/> NOB PLM:
4 Field Number <u>12A</u>	Color: <u>Brown</u> Homogeneity: <u>7</u> # of Layers: <u>2</u> Color of Layer: <u>2</u> Comments:	Morphology: <u>Extinction</u> RI I: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u> Comments:	Chrysotile: <input type="checkbox"/> Amosite: <input type="checkbox"/> Other: <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose: <u>11</u> Fiberglass: <u>0</u> Other: <u>0</u> <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler: <u>17</u> Organic Binders: <u>72</u> Vermiculite: <u>0</u> Other: <u>0</u>	Organic: <input type="checkbox"/> NA Residue Ntr: <input type="checkbox"/> Carbonate: <input type="checkbox"/> Vermiculite: <input type="checkbox"/> NA Residue Fr: <input type="checkbox"/> Asbestos: <input type="checkbox"/> NOB PLM:



ATC ASSOCIATES INC. - NEW YORK

104 East 25th Street, 10th Floor, New York, NY 10010  
Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

BULK ASBESTOS ANALYSIS SHEET

Client / Project: Ale Vesmont / Main St J, Vermont Project Number 25538  
Analysis Date: 12/21/12 Analyst: AF

Accreditations:  
NVLAP 10147-0  
ELAP 10879

Microscopes:  
OLYMPUS BH-27  
NIKON OPTIPHOT

TEMPERATURE °C

Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field Number <u>12B</u>	Color <u>Brown</u> Homogeneity <u>4</u> # of Layers <u>2</u> Color of Layer _____ Comments: _____	Morphology _____ RI I _____ DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>17</u> Organic Binders <u>75</u> Vermiculite <u>10</u> Other _____	Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
2 Field Number <u>12C</u>	Color <u>Brown</u> Homogeneity <u>4</u> # of Layers <u>2</u> Color of Layer _____ Comments: _____	Morphology _____ RI I _____ DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>20</u> Organic Binders <u>70</u> Vermiculite <u>10</u> Other _____	Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
3 Field Number <u>16A</u>	Color <u>Gray</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer _____ Comments: _____	Morphology _____ RI I _____ DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>10</u> Organic Binders _____ Vermiculite <u>90</u> Other <u>Paint</u>	Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
4 Field Number <u>16B</u>	Color <u>Gray</u> Homogeneity <u>9</u> # of Layers <u>1</u> Color of Layer _____ Comments: _____	Morphology _____ RI I _____ DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>12</u> Organic Binders _____ Vermiculite <u>88</u> Other <u>Paint</u>	Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NTLAP 101187-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Abe Vesmont / Main St J, vel mont Project Number 25538  
 Analysis Date: 12/21/12 Analyst: AF Batch Number 25538  
 TEMPERATURE °C 25

Field Number <u>10C</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input checked="" type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam Color <u>Grey</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>1</u> Comments:	PLM Optical Properties Morphology <u>AF</u> RI I <u>AF</u> DS Color <u>AF</u> Biref <u>AF</u> Extinction <u>AF</u> RI II <u>AF</u> Color, Pleo <u>AF</u> Sign <u>AF</u>	Asbestos Results PLM % Chrysotile <u>AF</u> Amosite <u>AF</u> Other <u>AF</u> <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>AF</u> Fiberglass <u>AF</u> Other <u>AF</u> Cellulose Ondulose Extinction <u>AF</u> Fiberglass Isotopic <u>AF</u> Synthetic High Birefringence <u>AF</u> Horse Hair: Scales, Low to Moderate Birefringence <u>AF</u>	Non Fibrous % Mineral Filler <u>AF</u> Organic Binders <u>AF</u> Vermiculite <u>AF</u> Other <u>AF</u>	Gravimetric (NOB) Results % Organic <u>AF</u> NA Residue Nfr <u>AF</u> Carbonate <u>AF</u> Vermiculite <u>AF</u> NA Residue Fr <u>AF</u> Asbestos <u>AF</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

Field Number <u>19A</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input checked="" type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam Color <u>White</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>1</u> Comments:	PLM Optical Properties Morphology <u>AF</u> RI I <u>AF</u> DS Color <u>AF</u> Biref <u>AF</u> Extinction <u>AF</u> RI II <u>AF</u> Color, Pleo <u>AF</u> Sign <u>AF</u>	Asbestos Results PLM % Chrysotile <u>AF</u> Amosite <u>AF</u> Other <u>AF</u> <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>AF</u> Fiberglass <u>AF</u> Other <u>AF</u> Cellulose Ondulose Extinction <u>AF</u> Fiberglass Isotopic <u>AF</u> Synthetic High Birefringence <u>AF</u> Horse Hair: Scales, Low to Moderate Birefringence <u>AF</u>	Non Fibrous % Mineral Filler <u>AF</u> Organic Binders <u>AF</u> Vermiculite <u>AF</u> Other <u>AF</u>	Gravimetric (NOB) Results % Organic <u>AF</u> NA Residue Nfr <u>AF</u> Carbonate <u>AF</u> Vermiculite <u>AF</u> NA Residue Fr <u>AF</u> Asbestos <u>AF</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

Field Number <u>19B</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input checked="" type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam Color <u>White</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>1</u> Comments:	PLM Optical Properties Morphology <u>AF</u> RI I <u>AF</u> DS Color <u>AF</u> Biref <u>AF</u> Extinction <u>AF</u> RI II <u>AF</u> Color, Pleo <u>AF</u> Sign <u>AF</u>	Asbestos Results PLM % Chrysotile <u>AF</u> Amosite <u>AF</u> Other <u>AF</u> <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>AF</u> Fiberglass <u>AF</u> Other <u>AF</u> Cellulose Ondulose Extinction <u>AF</u> Fiberglass Isotopic <u>AF</u> Synthetic High Birefringence <u>AF</u> Horse Hair: Scales, Low to Moderate Birefringence <u>AF</u>	Non Fibrous % Mineral Filler <u>AF</u> Organic Binders <u>AF</u> Vermiculite <u>AF</u> Other <u>AF</u>	Gravimetric (NOB) Results % Organic <u>AF</u> NA Residue Nfr <u>AF</u> Carbonate <u>AF</u> Vermiculite <u>AF</u> NA Residue Fr <u>AF</u> Asbestos <u>AF</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

Field Number <u>19C</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input checked="" type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam Color <u>White</u> Homogeneity <u>7</u> # of Layers <u>1</u> Color of Layer <u>1</u> Comments:	PLM Optical Properties Morphology <u>AF</u> RI I <u>AF</u> DS Color <u>AF</u> Biref <u>AF</u> Extinction <u>AF</u> RI II <u>AF</u> Color, Pleo <u>AF</u> Sign <u>AF</u>	Asbestos Results PLM % Chrysotile <u>AF</u> Amosite <u>AF</u> Other <u>AF</u> <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>AF</u> Fiberglass <u>AF</u> Other <u>AF</u> Cellulose Ondulose Extinction <u>AF</u> Fiberglass Isotopic <u>AF</u> Synthetic High Birefringence <u>AF</u> Horse Hair: Scales, Low to Moderate Birefringence <u>AF</u>	Non Fibrous % Mineral Filler <u>AF</u> Organic Binders <u>AF</u> Vermiculite <u>AF</u> Other <u>AF</u>	Gravimetric (NOB) Results % Organic <u>AF</u> NA Residue Nfr <u>AF</u> Carbonate <u>AF</u> Vermiculite <u>AF</u> NA Residue Fr <u>AF</u> Asbestos <u>AF</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 101187-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ale Velmont / Main St J, Velmont Project Number 25538  
 Analysis Date: 12/21/12 Analyst: AF Batch Number 25538

TEMPERATURE °C 25

Field Number	Gravimetric (NOB) Results %	Non Fibrous %	Other Fibrous %	Asbestos Results PLM %	PLM Optical Properties	Stereoscopic Exam	Gravimetric (NOB) Results %	Non Fibrous %	Other Fibrous %	Asbestos Results PLM %	PLM Optical Properties	Stereoscopic Exam		
1 Field Number 20A	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	12 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>88</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Blue</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	10 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>90</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Blue</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2
2 Field Number 20B	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	10 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>90</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Blue</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	10 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>90</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Blue</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2
3 Field Number 20C	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	10 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>90</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Blue</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	10 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>90</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Blue</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2
4 Field Number 21A	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	10 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>90</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Beige</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____	10 Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other <u>90</u> _____ <u>Paint</u>	Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Morphology _____ RI I _____ RI II _____ Color, P/lo _____ Sign _____	Texture <u>Beige</u> _____ Homogeneity <u>Y</u> _____ Asbestos <input type="checkbox"/> _____ Detected Yes No <input checked="" type="checkbox"/> _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 363-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 107167-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ale Velmont / Main St J, Velmont Project Number \_\_\_\_\_  
 Analysis Date: 12/21/12 Analyst: AF Batch Number: 25538  
 TEMPERATURE °C: 25

Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 Field Number <u>21B</u>	Color <u>Beige</u> Homogeneity <u>NF</u> # of Layers <u>7</u> Color of Layer _____ Morphology _____ RI <u>⊥</u> DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____ Asbestos <input type="checkbox"/> Detected Yes No Comments: _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose _____ Fiberglass _____ Other _____ <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>53</u> Organic Binders <u>47</u> Vermiculite <u>0</u> Other _____	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____ NOB PLM: _____
2 Field Number <u>21C</u>	Color <u>Beige</u> Homogeneity <u>NF</u> # of Layers <u>7</u> Color of Layer _____ Morphology _____ RI <u>⊥</u> DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____ Asbestos <input type="checkbox"/> Detected Yes No Comments: _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose _____ Fiberglass _____ Other _____ <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>51</u> Organic Binders <u>48</u> Vermiculite _____ Other _____	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____ NOB PLM: _____
3 Field Number <u>22A</u>	Color <u>Black</u> Homogeneity <u>NF</u> # of Layers <u>7</u> Color of Layer _____ Morphology _____ RI <u>⊥</u> DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____ Asbestos <input type="checkbox"/> Detected Yes No Comments: _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose <u>10</u> Fiberglass _____ Other _____ <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>10</u> Organic Binders <u>90</u> Vermiculite <u>0</u> Other _____	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____ NOB PLM: _____
4 Field Number <u>22B</u>	Color <u>Black</u> Homogeneity <u>NF</u> # of Layers <u>7</u> Color of Layer _____ Morphology _____ RI <u>⊥</u> DS Color _____ Biref _____ Extinction _____ RI II _____ Color, Pleo _____ Sign _____ Asbestos <input type="checkbox"/> Detected Yes No Comments: _____	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2	Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If ≥10% Vermiculite	Cellulose <u>10</u> Fiberglass _____ Other _____ <input type="checkbox"/> Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence	Mineral Filler <u>8</u> Organic Binders <u>92</u> Vermiculite <u>0</u> Other _____	Organic _____ NA Residue Ntr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____ NOB PLM: _____



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 101187-0  
 ELAP 10979

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ale Vesmont / Mem St J, Velmont Project Number  
 Analysis Date: 2/21/12 Analyst: AF Batch Number: 25538  
 TEMPERATURE: 25

Field Number <u>22C</u>	Stereoscopic Exam Color <u>Black</u> Homogeneity <u>Y</u> # of Layers <u>1</u> Color of Layer <u>U</u>	PLM Optical Properties Morphology _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Sign _____	Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % <u>10</u> Cellulose <u>90</u> Fiberglass <u>0</u> Other Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>10</u> Mineral Filler <u>90</u> Organic Binders <u>0</u> Vermiculite Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						

Field Number <u>24A</u>	Stereoscopic Exam Color <u>Gray</u> Homogeneity <u>Y</u> # of Layers <u>1</u> Color of Layer <u>U</u>	PLM Optical Properties Morphology <u>W</u> RI I <u>1558</u> RI II <u>1559</u> DS Color <u>Blm</u> Color, Pleo <u>W</u> Sign <u>F</u>	Asbestos Results PLM % Chrysotile <u>40</u> Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % <u>45</u> Cellulose Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>15</u> Mineral Filler Organic Binders _____ Vermiculite _____ Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						

Field Number <u>24B</u>	Stereoscopic Exam Color _____ Homogeneity _____ # of Layers _____ Color of Layer _____	PLM Optical Properties Morphology _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Sign _____	Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						

Field Number <u>24C</u>	Stereoscopic Exam Color _____ Homogeneity _____ # of Layers _____ Color of Layer _____	PLM Optical Properties Morphology _____ RI I _____ RI II _____ DS Color _____ Color, Pleo _____ Sign _____	Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Client / Project: Ate Vermont / Men of J, Vermont Project Number  
 Analysis Date: 12/21/12 Analyst: AF Batch Number: 25538

TEMPERATURE °C 25

Accreditations:  
 NVLAP 101167-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1 28A	Color: <u>Gray</u> Homogeneity: <u>NF</u> # of Layers: <u>1</u> Color of Layer: <u>L</u> Texture: <u>NF</u> Asbestos: <input type="checkbox"/> Detected: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Morphology: <u>Extinction</u> RI, L: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u>	Chrysotile <input type="checkbox"/> Amosite <input type="checkbox"/> Other <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>70</u> Fiberglass <u>50</u> Other <u>5</u> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>20</u> Organic Binders <u>50</u> Vermiculite <u>5</u> Other <u>        </u>	Organic <u>        </u> NA Residue Ntr <u>        </u> Carbonate <u>        </u> Vermiculite <u>        </u> NA Residue Fr <u>        </u> Asbestos <u>        </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
2 28B	Color: <u>Gray</u> Homogeneity: <u>NF</u> # of Layers: <u>4</u> Color of Layer: <u>L</u> Texture: <u>NF</u> Asbestos: <input type="checkbox"/> Detected: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Morphology: <u>Extinction</u> RI, L: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u>	Chrysotile <input type="checkbox"/> Amosite <input type="checkbox"/> Other <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>70</u> Fiberglass <u>        </u> Other <u>        </u> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>22</u> Organic Binders <u>78</u> Vermiculite <u>5</u> Other <u>        </u>	Organic <u>        </u> NA Residue Ntr <u>        </u> Carbonate <u>        </u> Vermiculite <u>        </u> NA Residue Fr <u>        </u> Asbestos <u>        </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
3 28C	Color: <u>Gray</u> Homogeneity: <u>NF</u> # of Layers: <u>7</u> Color of Layer: <u>L</u> Texture: <u>NF</u> Asbestos: <input type="checkbox"/> Detected: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Morphology: <u>Extinction</u> RI, L: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u>	Chrysotile <input type="checkbox"/> Amosite <input type="checkbox"/> Other <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>70</u> Fiberglass <u>        </u> Other <u>        </u> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>24</u> Organic Binders <u>76</u> Vermiculite <u>0</u> Other <u>        </u>	Organic <u>        </u> NA Residue Ntr <u>        </u> Carbonate <u>        </u> Vermiculite <u>        </u> NA Residue Fr <u>        </u> Asbestos <u>        </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
4 29A	Color: <u>Blue/Maroon</u> Homogeneity: <u>N</u> # of Layers: <u>1</u> Color of Layer: <u>L</u> Texture: <u>NF</u> Asbestos: <input type="checkbox"/> Detected: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Morphology: <u>Extinction</u> RI, L: <u>RI II</u> DS Color: <u>Color, Pleo</u> Biref: <u>Sign</u>	Chrysotile <input type="checkbox"/> Amosite <input type="checkbox"/> Other <input type="checkbox"/> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose <u>70</u> Fiberglass <u>        </u> Other <u>        </u> Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotropic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Mineral Filler <u>38</u> Organic Binders <u>62</u> Vermiculite <u>0</u> Other <u>        </u>	Organic <u>        </u> NA Residue Ntr <u>        </u> Carbonate <u>        </u> Vermiculite <u>        </u> NA Residue Fr <u>        </u> Asbestos <u>        </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 101197-0  
 ELAP 10879

MICROSCOPES:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ats Velmont / Main St J, Velmont Project Number  
 Analysis Date: 12/21/12 Analyst: AF Batch Number: 25538 Temperature: 25

1 Field Number <u>29B</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Color <u>Blue/Maroon</u> Texture <u>NF</u>	Morphology	Extinction	Chrysotile	Cellulose	30	Mineral Filler	Organic
Required <input type="checkbox"/>	Homogeneity <u>N</u>	RI, L	RI II	Amosite	Fiberglass	70	Organic Binders	NA Residue Nfr
Recommended <input checked="" type="checkbox"/>	# of Layers <u>1</u>	DS Color	Color, Pleo	Other	Other	0	Vermiculite	Carbonate
Gravimetric (NOB) PLM <input type="checkbox"/>	Asbestos <input type="checkbox"/>	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose Ondulose Extinction <input checked="" type="checkbox"/>		Other	Vermiculite
Gravimetric (NOB) TEM <input type="checkbox"/>	Detected Yes No				Fiberglass Isotopic <input type="checkbox"/>			NA Residue Fr
	Color of Layer				Synthetic High Birefringence <input type="checkbox"/>			Asbestos
	Comments:				Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>			
	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2				Q.C. <input type="checkbox"/>			NOB PLM: _____

2 Field Number <u>29C</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Color <u>Blue/Maroon</u> Texture <u>NF</u>	Morphology	Extinction	Chrysotile	Cellulose	34	Mineral Filler	Organic
Required <input type="checkbox"/>	Homogeneity <u>N</u>	RI, L	RI II	Amosite	Fiberglass	66	Organic Binders	NA Residue Nfr
Recommended <input checked="" type="checkbox"/>	# of Layers <u>1</u>	DS Color	Color, Pleo	Other	Other	0	Vermiculite	Carbonate
Gravimetric (NOB) PLM <input type="checkbox"/>	Asbestos <input type="checkbox"/>	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose Ondulose Extinction <input checked="" type="checkbox"/>		Other	Vermiculite
Gravimetric (NOB) TEM <input type="checkbox"/>	Detected Yes No				Fiberglass Isotopic <input type="checkbox"/>			NA Residue Fr
	Color of Layer				Synthetic High Birefringence <input type="checkbox"/>			Asbestos
	Comments:				Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>			
	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2				Q.C. <input type="checkbox"/>			NOB PLM: _____

3 Field Number <u>30A</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Color <u>Beige</u> Texture <u>NF</u>	Morphology	Extinction	Chrysotile	Cellulose	8	Mineral Filler	Organic
Required <input type="checkbox"/>	Homogeneity <u>Y</u>	RI, L	RI II	Amosite	Fiberglass	92	Organic Binders	NA Residue Nfr
Recommended <input checked="" type="checkbox"/>	# of Layers <u>1</u>	DS Color	Color, Pleo	Other	Other	0	Vermiculite	Carbonate
Gravimetric (NOB) PLM <input type="checkbox"/>	Asbestos <input type="checkbox"/>	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose Ondulose Extinction <input type="checkbox"/>		Other	Vermiculite
Gravimetric (NOB) TEM <input type="checkbox"/>	Detected Yes No				Fiberglass Isotopic <input type="checkbox"/>			NA Residue Fr
	Color of Layer				Synthetic High Birefringence <input type="checkbox"/>			Asbestos
	Comments:				Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>			
	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2				Q.C. <input type="checkbox"/>			NOB PLM: _____

4 Field Number <u>30B</u>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
	Color <u>Beige</u> Texture <u>NF</u>	Morphology	Extinction	Chrysotile	Cellulose	6	Mineral Filler	Organic
Required <input type="checkbox"/>	Homogeneity <u>Y</u>	RI, L	RI II	Amosite	Fiberglass	94	Organic Binders	NA Residue Nfr
Recommended <input checked="" type="checkbox"/>	# of Layers <u>1</u>	DS Color	Color, Pleo	Other	Other	0	Vermiculite	Carbonate
Gravimetric (NOB) PLM <input type="checkbox"/>	Asbestos <input type="checkbox"/>	Biref	Sign	<input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Cellulose Ondulose Extinction <input type="checkbox"/>		Other	Vermiculite
Gravimetric (NOB) TEM <input type="checkbox"/>	Detected Yes No				Fiberglass Isotopic <input type="checkbox"/>			NA Residue Fr
	Color of Layer				Synthetic High Birefringence <input type="checkbox"/>			Asbestos
	Comments:				Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>			
	Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2				Q.C. <input checked="" type="checkbox"/>			NOB PLM: _____



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 101487-0  
 ELAP 10679

ALLEGOROUS:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ale velmont / Main St J, velmont Project Number 25338  
 Analysis Date: 12/21/12 Analyst: AF Batch Number 25338  
 TEMPERATURE °C 25

Field Number	Stereoscopic Exam	PLM Optical Properties	Asbestos Results PLM %	Other Fibrous %	Non Fibrous %	Gravimetric (NOB) Results %
1	Color <u>Beige</u> Homogeneity <u>4</u> # of Layers <u>1</u> Color of Layer <u>1</u> Comments:	Morphology <u>NE</u> RI I <u>   </u> DS Color <u>   </u> Biref <u>   </u> Extinction <u>   </u> RI II <u>   </u> Color, Pleo <u>   </u> Sign <u>   </u>	Chrysotile <u>   </u> Amosite <u>   </u> Other <u>   </u> <input type="checkbox"/> Assume ACM if ≥10% Vermiculite	Cellulose <u>   </u> Fiberglass <u>   </u> Other <u>   </u> <input type="checkbox"/> Cellulose Ondulose Extinction <u>   </u> <input type="checkbox"/> Fiberglass Isotopic <u>   </u> <input type="checkbox"/> Synthetic High Birefringence <u>   </u> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <u>   </u>	Mineral Filler <u>   </u> Organic Binders <u>   </u> Vermiculite <u>   </u> Other <u>   </u>	Organic <u>   </u> NA Residue Ntr <u>   </u> Carbonate <u>   </u> Vermiculite <u>   </u> NA Residue Fr <u>   </u> Asbestos <u>   </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
2	Color <u>Black</u> Homogeneity <u>   </u> # of Layers <u>   </u> Color of Layer <u>   </u> Comments:	Morphology <u>NE</u> RI I <u>   </u> DS Color <u>   </u> Biref <u>   </u> Extinction <u>   </u> RI II <u>   </u> Color, Pleo <u>   </u> Sign <u>   </u>	Chrysotile <u>   </u> Amosite <u>   </u> Other <u>   </u> <input type="checkbox"/> Assume ACM if ≥10% Vermiculite	Cellulose <u>   </u> Fiberglass <u>   </u> Other <u>   </u> <input type="checkbox"/> Cellulose Ondulose Extinction <u>   </u> <input type="checkbox"/> Fiberglass Isotopic <u>   </u> <input type="checkbox"/> Synthetic High Birefringence <u>   </u> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <u>   </u>	Mineral Filler <u>   </u> Organic Binders <u>   </u> Vermiculite <u>   </u> Other <u>   </u>	Organic <u>   </u> NA Residue Ntr <u>   </u> Carbonate <u>   </u> Vermiculite <u>   </u> NA Residue Fr <u>   </u> Asbestos <u>   </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
3	Color <u>Black</u> Homogeneity <u>7</u> # of Layers <u>   </u> Color of Layer <u>   </u> Comments:	Morphology <u>NE</u> RI I <u>   </u> DS Color <u>   </u> Biref <u>   </u> Extinction <u>   </u> RI II <u>   </u> Color, Pleo <u>   </u> Sign <u>   </u>	Chrysotile <u>   </u> Amosite <u>   </u> Other <u>   </u> <input type="checkbox"/> Assume ACM if ≥10% Vermiculite	Cellulose <u>7</u> Fiberglass <u>   </u> Other <u>   </u> <input type="checkbox"/> Cellulose Ondulose Extinction <u>   </u> <input type="checkbox"/> Fiberglass Isotopic <u>   </u> <input type="checkbox"/> Synthetic High Birefringence <u>   </u> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <u>   </u>	Mineral Filler <u>   </u> Organic Binders <u>   </u> Vermiculite <u>   </u> Other <u>   </u>	Organic <u>   </u> NA Residue Ntr <u>   </u> Carbonate <u>   </u> Vermiculite <u>   </u> NA Residue Fr <u>   </u> Asbestos <u>   </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						
4	Color <u>Black</u> Homogeneity <u>9</u> # of Layers <u>   </u> Color of Layer <u>   </u> Comments:	Morphology <u>NE</u> RI I <u>   </u> DS Color <u>   </u> Biref <u>   </u> Extinction <u>   </u> RI II <u>   </u> Color, Pleo <u>   </u> Sign <u>   </u>	Chrysotile <u>   </u> Amosite <u>   </u> Other <u>   </u> <input type="checkbox"/> Assume ACM if ≥10% Vermiculite	Cellulose <u>8</u> Fiberglass <u>   </u> Other <u>   </u> <input type="checkbox"/> Cellulose Ondulose Extinction <u>   </u> <input type="checkbox"/> Fiberglass Isotopic <u>   </u> <input type="checkbox"/> Synthetic High Birefringence <u>   </u> <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <u>   </u>	Mineral Filler <u>   </u> Organic Binders <u>   </u> Vermiculite <u>   </u> Other <u>   </u>	Organic <u>   </u> NA Residue Ntr <u>   </u> Carbonate <u>   </u> Vermiculite <u>   </u> NA Residue Fr <u>   </u> Asbestos <u>   </u>
POINT COUNT RESULTS ON THE BACK Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2						



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 363-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 101167-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ale Velmont / Main St J, Velmont Project Number: 25538  
 Analysis Date: 12/21/12 Analyst: AR Batch Number: 25538  
 TEMPERATURE °C: 25

1 Field Number <u>33A</u>	Stereoscopic Exam Color <u>L-Brown</u> Homogeneity <u>A</u> # of Layers <u>1</u> Color of Layer <u>—</u>	PLM Optical Properties Morphology <u>—</u> RI I <u>—</u> DS Color <u>—</u> Biref <u>—</u>	Asbestos Results PLM % <u>—</u> Chrysotile <u>—</u> Amosite <u>—</u> Other <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>10</u> Cellulose <u>—</u> Fiberglass <u>—</u> Other Cellulose Oxidation Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>15</u> Mineral Filler <u>75</u> Organic Binders <u>0</u> Vermiculite <u>—</u> Other	Gravimetric (NOB) Results % Organic <u>—</u> NA Residue Nfr <u>—</u> Carbonate <u>—</u> Vermiculite <u>—</u> NA Residue Fr <u>—</u> Asbestos <u>—</u>

2 Field Number <u>33B</u>	Stereoscopic Exam Color <u>L-Brown</u> Homogeneity <u>A</u> # of Layers <u>1</u> Color of Layer <u>—</u>	PLM Optical Properties Morphology <u>—</u> RI I <u>—</u> DS Color <u>—</u> Biref <u>—</u>	Asbestos Results PLM % <u>—</u> Chrysotile <u>—</u> Amosite <u>—</u> Other <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>12</u> Cellulose <u>—</u> Fiberglass <u>—</u> Other Cellulose Oxidation Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>18</u> Mineral Filler <u>70</u> Organic Binders <u>0</u> Vermiculite <u>—</u> Other	Gravimetric (NOB) Results % Organic <u>—</u> NA Residue Nfr <u>—</u> Carbonate <u>—</u> Vermiculite <u>—</u> NA Residue Fr <u>—</u> Asbestos <u>—</u>

3 Field Number <u>33C</u>	Stereoscopic Exam Color <u>L-Brown</u> Homogeneity <u>Y</u> # of Layers <u>—</u> Color of Layer <u>—</u>	PLM Optical Properties Morphology <u>—</u> RI I <u>—</u> DS Color <u>—</u> Biref <u>—</u>	Asbestos Results PLM % <u>—</u> Chrysotile <u>—</u> Amosite <u>—</u> Other <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>10</u> Cellulose <u>—</u> Fiberglass <u>—</u> Other Cellulose Oxidation Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>20</u> Mineral Filler <u>74</u> Organic Binders <u>0</u> Vermiculite <u>—</u> Other	Gravimetric (NOB) Results % Organic <u>—</u> NA Residue Nfr <u>—</u> Carbonate <u>—</u> Vermiculite <u>—</u> NA Residue Fr <u>—</u> Asbestos <u>—</u>

4 Field Number <u>34A</u>	Stereoscopic Exam Color <u>L-Gre</u> Homogeneity <u>—</u> # of Layers <u>—</u> Color of Layer <u>—</u>	PLM Optical Properties Morphology <u>—</u> RI I <u>—</u> DS Color <u>—</u> Biref <u>—</u>	Asbestos Results PLM % <u>—</u> Chrysotile <u>—</u> Amosite <u>—</u> Other <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>—</u> Cellulose <u>—</u> Fiberglass <u>—</u> Other Cellulose Oxidation Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>—</u> Mineral Filler <u>—</u> Organic Binders <u>—</u> Vermiculite <u>—</u> Other	Gravimetric (NOB) Results % Organic <u>—</u> NA Residue Nfr <u>—</u> Carbonate <u>—</u> Vermiculite <u>—</u> NA Residue Fr <u>—</u> Asbestos <u>—</u>



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NMLAP 101187-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-2/  
 NIKON OPTIPHOT

Client / Project: Asbestos / Vermont / Main St, Vermont Project Number: 25538  
 Analysis Date: 12/21/12 Analyst: AF Batch Number: 25538

TEMPERATURE °C 25

1 Field Number <u>33A</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>76</u> Cellulose <u>90</u> Fiberglass Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input checked="" type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>10</u> Mineral Filler Organic Binders _____ <u>0</u> Vermiculite Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
		Color <u>L-Grey</u> Homogeneity <u>Y</u> # of Layers _____ Color of Layer _____	Morphology _____ RI I _____ DS Color _____ Biref _____	Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Q.C. <input type="checkbox"/>				
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2									

2 Field Number <u>33B</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>76</u> Cellulose <u>85</u> Fiberglass Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input checked="" type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>15</u> Mineral Filler Organic Binders _____ <u>0</u> Vermiculite Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
		Color <u>L-Grey</u> Homogeneity <u>Y</u> # of Layers _____ Color of Layer _____	Morphology _____ RI I _____ DS Color _____ Biref _____	Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Q.C. <input type="checkbox"/>				
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2									

3 Field Number <u>33C</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>76</u> Cellulose <u>88</u> Fiberglass Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input checked="" type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>12</u> Mineral Filler Organic Binders _____ <u>0</u> Vermiculite Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
		Color <u>L-Grey</u> Homogeneity <u>Y</u> # of Layers _____ Color of Layer _____	Morphology _____ RI I _____ DS Color _____ Biref _____	Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Q.C. <input checked="" type="checkbox"/>				
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2									

4 Field Number <u>38A</u>	Gravimetric (NOB) Required <input type="checkbox"/> Recommended <input type="checkbox"/> Gravimetric PREP <input type="checkbox"/> Gravimetric (NOB) PLM <input type="checkbox"/> Gravimetric (NOB) TEM <input type="checkbox"/>	Stereoscopic Exam		PLM Optical Properties		Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % <u>2</u> Cellulose Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>98</u> Mineral Filler Organic Binders _____ <u>0</u> Vermiculite Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
		Color <u>White</u> Homogeneity <u>Y</u> # of Layers _____ Color of Layer _____	Morphology _____ RI I _____ DS Color _____ Biref _____	Extinction _____ RI II _____ Color, Pleo _____ Sign _____	Q.C. <input type="checkbox"/>				
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2									



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25<sup>th</sup> Street, 10<sup>th</sup> Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NVLAP 10116740  
 ELAP 10879

MICROSCOPES:  
 OLYMPUS BH-27  
 NIKON OPTIPHOT

Client / Project: Ats Velmont / Main St 3, Velmont Project Number  
 Analysis Date: 2/21/12 Analyst: AF Batch Number: 25538 TEMPERATURE °C: 25

1	Field Number <u>38B</u>	Stereoscopic Exam Color <u>Beige</u> Homogeneity <u>Y</u> # of Layers <u>1</u> Color of Layer <u>U</u> Texture <u>F</u> Morphology <u>RI I</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties Extinction <u>RI I</u> RI II <u>RI I</u> Color, Pleo <u>Color, Pleo</u> Sign <u>Sign</u>	Asbestos Results PLM % Chrysotile <u>/</u> Amosite <u>/</u> Other <u>/</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>3</u> Fiberglass <u>0</u> Other <u>0</u> Cellulose Ondulose Extinction <u>0</u> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % Mineral Filler <u>97</u> Organic Binders <u>0</u> Vermiculite <u>0</u> Other <u>0</u>	Gravimetric (NOB) Results % Organic <u>0</u> NA Residue Ntr <u>0</u> Carbonate <u>0</u> Vermiculite <u>0</u> NA Residue Fr <u>0</u> Asbestos <u>0</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

2	Field Number <u>38C</u>	Stereoscopic Exam Color <u>Beige</u> Homogeneity <u>Y</u> # of Layers <u>1</u> Color of Layer <u>U</u> Texture <u>F</u> Morphology <u>RI I</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties Extinction <u>RI I</u> RI II <u>RI I</u> Color, Pleo <u>Color, Pleo</u> Sign <u>Sign</u>	Asbestos Results PLM % Chrysotile <u>/</u> Amosite <u>/</u> Other <u>/</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>4</u> Fiberglass <u>0</u> Other <u>0</u> Cellulose Ondulose Extinction <u>0</u> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % Mineral Filler <u>96</u> Organic Binders <u>0</u> Vermiculite <u>0</u> Other <u>0</u>	Gravimetric (NOB) Results % Organic <u>0</u> NA Residue Ntr <u>0</u> Carbonate <u>0</u> Vermiculite <u>0</u> NA Residue Fr <u>0</u> Asbestos <u>0</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

3	Field Number <u>40A</u>	Stereoscopic Exam Color <u>D-Gray</u> Homogeneity <u>Y</u> # of Layers <u>1</u> Color of Layer <u>U</u> Texture <u>AF</u> Morphology <u>RI I</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties Extinction <u>RI I</u> RI II <u>RI I</u> Color, Pleo <u>Color, Pleo</u> Sign <u>Sign</u>	Asbestos Results PLM % Chrysotile <u>/</u> Amosite <u>/</u> Other <u>/</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>72</u> Fiberglass <u>0</u> Other <u>0</u> Cellulose Ondulose Extinction <u>0</u> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % Mineral Filler <u>28</u> Organic Binders <u>0</u> Vermiculite <u>0</u> Other <u>0</u>	Gravimetric (NOB) Results % Organic <u>0</u> NA Residue Ntr <u>0</u> Carbonate <u>0</u> Vermiculite <u>0</u> NA Residue Fr <u>0</u> Asbestos <u>0</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

4	Field Number <u>40B</u>	Stereoscopic Exam Color <u>D-Gray</u> Homogeneity <u>Y</u> # of Layers <u>1</u> Color of Layer <u>U</u> Texture <u>AF</u> Morphology <u>RI I</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties Extinction <u>RI I</u> RI II <u>RI I</u> Color, Pleo <u>Color, Pleo</u> Sign <u>Sign</u>	Asbestos Results PLM % Chrysotile <u>/</u> Amosite <u>/</u> Other <u>/</u> <input type="checkbox"/> Assume ACM If $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose <u>70</u> Fiberglass <u>0</u> Other <u>0</u> Cellulose Ondulose Extinction <u>0</u> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair: Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % Mineral Filler <u>30</u> Organic Binders <u>0</u> Vermiculite <u>0</u> Other <u>0</u>	Gravimetric (NOB) Results % Organic <u>0</u> NA Residue Ntr <u>0</u> Carbonate <u>0</u> Vermiculite <u>0</u> NA Residue Fr <u>0</u> Asbestos <u>0</u>
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							



ATC ASSOCIATES INC. - NEW YORK  
 104 East 25th Street, 10th Floor, New York, NY 10010  
 Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
 NPLAP 101187-0  
 ELAP 10879

Microscopes:  
 OLYMPUS BH-2T  
 NIKON OPTIPHOT

Client / Project: Abe Vesmont / Main St, Velmont Project Number: 25538  
 Analysis Date: 12/21/12 Analyst: AF Batch Number: 25538  
 TEMPERATURE °C: 25

1	Field Number: <u>40C</u>	Stereoscopic Exam Color: <u>D-Grey</u> Homogeneity: <u>7</u> # of Layers: <u>1</u> Color of Layer: _____	PLM Optical Properties Morphology: _____ RI I: _____ DS Color: _____ Biref: _____	Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>32</u> Mineral Filler <u>68</u> Organic Binders <u>0</u> Vermiculite Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

2	Field Number: <u>42A</u>	Stereoscopic Exam Color: <u>L-Grey</u> Homogeneity: <u>7</u> # of Layers: <u>1</u> Color of Layer: _____	PLM Optical Properties Morphology: <u>U</u> RI I: <u>1-54</u> DS Color: <u>BLM</u> Biref: <u>U</u>	Asbestos Results PLM % <u>33</u> Chrysotile Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input checked="" type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % <u>67</u> Mineral Filler <u>0</u> Organic Binders <u>0</u> Vermiculite Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK							
Method: <input checked="" type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

3	Field Number: <u>42B</u>	Stereoscopic Exam Color: _____ Homogeneity: _____ # of Layers: _____ Color of Layer: _____	PLM Optical Properties Morphology: _____ RI I: _____ DS Color: _____ Biref: _____	Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % _____ Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							

4	Field Number: <u>42C</u>	Stereoscopic Exam Color: _____ Homogeneity: _____ # of Layers: _____ Color of Layer: _____	PLM Optical Properties Morphology: _____ RI I: _____ DS Color: _____ Biref: _____	Asbestos Results PLM % Chrysotile _____ Amosite _____ Other _____ <input type="checkbox"/> Assume ACM if $\geq 10\%$ Vermiculite	Other Fibrous % Cellulose _____ Fiberglass _____ Other _____ Cellulose Ondulose Extinction <input type="checkbox"/> Fiberglass Isotopic <input type="checkbox"/> Synthetic High Birefringence <input type="checkbox"/> Horse Hair Scales, Low to Moderate Birefringence <input type="checkbox"/>	Non Fibrous % _____ Mineral Filler _____ Organic Binders _____ Vermiculite _____ Other _____	Gravimetric (NOB) Results % Organic _____ NA Residue Nfr _____ Carbonate _____ Vermiculite _____ NA Residue Fr _____ Asbestos _____
POINT COUNT RESULTS ON THE BACK							
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2							



ATC ASSOCIATES INC. - NEW YORK

104 East 25th Street, 10th Floor, New York, NY 10010  
Phone: (212) 353-8280, Fax: (212) 353-3599 or 8306

Accreditations:  
NVLAP 101187-0  
ELAP 10879

Microscopes:  
OLYMPUS BH-2/  
NIKON OPTIPHOT

Client / Project: Ace Vestment Memo of J, Velmont Project Number 25538

Analysis Date 12/21/12 Analyst AF Batch Number 25538 TEMPERATURE °C 25

1	Field Number	444	Stereoscopic Exam	Color <u>Black</u> Homogeneity <u>Y</u> # of Layers <u>1</u> Color of Layer <u>---</u>	Texture <u>NF</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties	Morphology <u>---</u> RI, L <u>---</u> DS Color <u>---</u> Blref <u>---</u>	Extinction <u>---</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>2</u> Fiberglass <u>5</u> Other <u>---</u>	Non Fibrous % Mineral Filler <u>60</u> Organic Binders <u>83</u> Vermiculite <u>6</u> Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input checked="" type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Comments: <u>Q.C. AF</u> NOB PLM: <u>---</u>												

2	Field Number		Stereoscopic Exam	Color <u>---</u> Homogeneity <u>---</u> # of Layers <u>---</u> Color of Layer <u>---</u>	Texture <u>---</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties	Morphology <u>---</u> RI, L <u>---</u> DS Color <u>---</u> Blref <u>---</u>	Extinction <u>---</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>---</u> Fiberglass <u>---</u> Other <u>---</u>	Non Fibrous % Mineral Filler <u>---</u> Organic Binders <u>---</u> Vermiculite <u>---</u> Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Comments: <u>Q.C. ---</u> NOB PLM: <u>---</u>												

3	Field Number		Stereoscopic Exam	Color <u>---</u> Homogeneity <u>---</u> # of Layers <u>---</u> Color of Layer <u>---</u>	Texture <u>---</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties	Morphology <u>---</u> RI, L <u>---</u> DS Color <u>---</u> Blref <u>---</u>	Extinction <u>---</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>---</u> Fiberglass <u>---</u> Other <u>---</u>	Non Fibrous % Mineral Filler <u>---</u> Organic Binders <u>---</u> Vermiculite <u>---</u> Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Comments: <u>Q.C. ---</u> NOB PLM: <u>---</u>												

4	Field Number		Stereoscopic Exam	Color <u>---</u> Homogeneity <u>---</u> # of Layers <u>---</u> Color of Layer <u>---</u>	Texture <u>---</u> Asbestos <input type="checkbox"/> Detected Yes No	PLM Optical Properties	Morphology <u>---</u> RI, L <u>---</u> DS Color <u>---</u> Blref <u>---</u>	Extinction <u>---</u> RI II <u>---</u> Color, Pleo <u>---</u> Sign <u>---</u>	Asbestos Results PLM % Chrysotile <u>---</u> Amosite <u>---</u> Other <u>---</u>	Other Fibrous % Cellulose <u>---</u> Fiberglass <u>---</u> Other <u>---</u>	Non Fibrous % Mineral Filler <u>---</u> Organic Binders <u>---</u> Vermiculite <u>---</u> Other <u>---</u>	Gravimetric (NOB) Results % Organic <u>---</u> NA Residue Ntr <u>---</u> Carbonate <u>---</u> Vermiculite <u>---</u> NA Residue Fr <u>---</u> Asbestos <u>---</u>
Method: <input type="checkbox"/> ELAP + EPA <input type="checkbox"/> ELAP <input type="checkbox"/> EPA <input type="checkbox"/> SCANNING OPTION: ELAP (P.C.) & EPA See Note # 1 or Note # 2 Comments: <u>Q.C. ---</u> NOB PLM: <u>---</u>												



INTRALABORATORY AND INTERLABORATORY QC SHEET

ASBESTOS LABORATORY QUALITY CONTROL PROGRAM  
DATA ENTRY SHEET FOR BULK SAMPLES

10% Recounts

DATE	ANALYST INITIALS	SAMPLE #	BATCH #	QC #	% ASB	P/F	INTERLABORATORY/ CORRECTIVE ACTIONS
O: 12/21/12	AF	1B	25538		ND		
B: 12/22/12	AF			12-21-AF 2	ND	P	
D: 12/22/12	MF			12-21-AF 2	ND		
O: 12/21/12	AF	4C	25538		7% CPM		
B: 12/22/12	AF			12-21-AF 3	7% CPM	P	
D: 12/22/12	MF			12-21-AF 3	7% CPM		
O: 12/21/12	AF	8A	25538		ND		
B: 12/22/12	AF			12-21-AF 4	ND	P	
D: 12/22/12	MF			12-21-AF 4	ND		
O: 12/21/12	AF	19A	25538		ND		
B: 12/22/12	AF			12-21-AF 5	ND	P	
D: 12/22/12	MF			12-21-AF 5	ND		
O: 12/21/12	AF	24A	25538		ND		
B: 12/22/12	AF			12-21-AF 6	ND	P	
D: 12/22/12	MF			12-21-AF 6	ND		
O: 12/21/12	AF	30A	25538		ND		
B: 12/22/12	AF			12-21-AF 7	ND	P	
D: 12/22/12	MF			12-21-AF 7	ND		
O: 12/21/12	AF	35C	25538		ND		
B: 12/22/12	AF			12-21-AF 8	ND	P	
D: 12/22/12	MF			12-21-AF 8	ND		
O: 12/21/12	AF	44A	25538		ND		
B: 12/22/12	AF			12-21-AF 9	ND	P	
D: 12/22/12	MF			12-21-AF 9	ND		

NOTE:

Intra-Analyst QC:  $R = |(O-B)| / ((O+B)/2)$

IF R > 1.0 REJECT

O=Original Count

Inter-Analyst QC:  $R = (O-D) / ((O+D)/2)$

IF R > 1.0 or < -1.0 REJECT

B=Blind Count by same analyst (Duplicate)

D=Duplicate by second analyst (Replicate)

171 Commerce Street | PO Box 1486 | Williston, Vermont 05495 | 802-862-1980 tel

**PLM BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

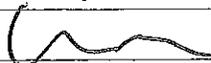
 PROJECT INFORMATION:  Vermont  NY State Code Rule for Asbestos

1. Client <b>NVDA</b>	2. Project Name: <b>ST. JOHN BURY / ARMORY</b>	3. Project #: <b>63.35078.0013</b>	4. Project Manager: <b>A. LIBERTY</b>
5. Date: <b>12/19/12</b>	2a. Project Address: <b>MAIN ST, ST J, VERMONT</b>	4a. Investigator: <b>AL, HM &amp; DP</b>	<input checked="" type="checkbox"/> Analyze until 1 <sup>st</sup> positive result in each H group. <input type="checkbox"/> * Hold until further instructions.
6. Building Name: <b>ST. J ARMORY</b>	7. Sampling Areas: <b>THROUGH OUT</b>	8. Turnaround Time: <input type="checkbox"/> 3 HRS <input type="checkbox"/> 24 HRS <input checked="" type="checkbox"/> 72 HRS <input type="checkbox"/> OTHER <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> STANDARD	

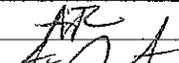
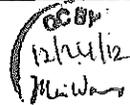
 BULK SAMPLE LOCATION  Please fax results to 802-862-1405  email results to: **Harland.Miller@Cardno.com**

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location		15. Material Total Qty. (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates		
H1	01A	DOOR CAULKING			NORTH DOOR BASEMENT LEVEL		
	01B	GRAY -			SAME AS 01A		
	01C	(EXTERIOR)			SAME AS 01A		
H2	02A	WINDOW			NORTH SIDE CENTER WINDOW <del>BASEMENT</del>		
	02B	CAULKING - WHITE			NORTHSIDE WEST END 1ST FLOOR		
	02C	(EXTERIOR)			NORTH WEST CORNER WINDOW		
H3	03A	WINDOW			NORTH SIDE @ STAIRS BASEMENT LEVEL		
	03B	GLAZING			SOUTH SIDE BASEMENT BY STAIRS		
	03C	(EXTERIOR)			SOUTHSIDE, EAST CORNER		
H4	04A	WINDOW			NORTH SIDE CENTER OF FRONT BLDG WINDOW BY STAIRS NORTH SIDE		
	04B	CAULKING			FRONT OF BLDG <del>WEST</del> NE CORNER		
	04C	WHITE (EXTERIOR)					
H5	05A	TAR COATING			@ North Door (gym)		
	05B	ON BRICK			↓		
	05C	(EXTERIOR)					
H6	06A	SILVER COATED			@ South Garage		
	06B	FLASHING			↓		
	06C	(EXT. ROOF)					

**CHAIN OF CUSTODY**

17. Relinquished By	18. Date	19. Time	20. Received By:	21. Date	22. Time	23. Method of Submittal	
I 	12/19/12	12:00	AL S. HASAN	12/19/12	5:00 P.M.		FIELD
II							WALK IN
III							US MAIL
						FED-X	
						OTHER	

**LAB INFORMATION**

24. Name and Signature	25. Date	26. Time	27. Comments (Lab)
24a. Analyzed By: 	12/20/12	11:58 P.M.	
24b. Analyzed By:			
24c. QC Rvr			 (CCBY) Miller

171 Commerce Street | PO Box 1486 | Williston, Vermont 05495 | 802-862-1980 tel

### PLM BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM

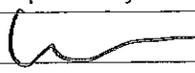
PROJECT INFORMATION:  Vermont  NY State Code Rule for Asbestos

1. Client <b>NVDA</b>	2. Project Name: <b>ST. JOHNSBURY MEMORY</b>	3. Project #: <b>63.35078.0013</b>	4. Project Manager: <b>A. LIBERTY</b>
	2a. Project Address: <b>MAIN ST, ST J, VERMONT</b>		4a. Investigator: <b>AL, HM &amp; DP</b>
5. Date: <b>12/11/12</b>	6. Building Name: <b>ST J MEMORY</b>	8. Turnaround Time <input type="checkbox"/> 3 HRS <input type="checkbox"/> 24 HRS <input checked="" type="checkbox"/> 72 HRS <input type="checkbox"/> OTHER <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> STANDARD	
	7. Sampling Areas: <b>THROUGHOUT</b>	<input checked="" type="checkbox"/> Analyze until 1 <sup>st</sup> positive result in each H group. <input type="checkbox"/> * Hold until further instructions.	

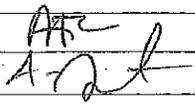
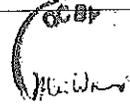
BULK SAMPLE LOCATION  Please fax results to 802-862-1405  email results to: \_\_\_\_\_

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location		15. Material Total Qty. (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates		
H7	07A	Built up T <sub>roof</sub>			C Hatch		
	07B	↓			C South Percept Drain		
	07C	↓			C Center of Roof		
H8	08A	Roofing Felt			See 07A		
	08B	↓			See 07B		
	08C	↓			See 07C		
H9	09A	Black Caulk @ gables			@ Gable N		
	09B	↓			@ Gable S		
	09C	↓			@ Gable Cent		
H10	10A	VOID					
	10B	↓					
	10C	↓					

#### CHAIN OF CUSTODY

17. Relinquished By	18. Date	19. Time	20. Received By:	21. Date	22. Time	23. Method of Submittal	
I 	12/11/12	1:00	ATC S. HASAN	12/20/12	8:00 PM		FIELD
II							WALK IN
III							US MAIL
						FED-X	
						OTHER	

#### LAB INFORMATION

24. Name and Signature 	25. Date 12/11/12	26. Time 11:55 PM	27. Comments (Lab) 
24a. Analyzed By:			
24b. Analyzed By:			

171 Commerce Street | PO Box 1486 | Williston, Vermont 05495 | 802-862-1980 tel

**PLM BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

 PROJECT INFORMATION:  Vermont  NY State Code Rule for Asbestos

1. Client <b>NVDA</b>	2. Project Name: <b>ST JOHNSBURY MEMORY</b>	3. Project #: <b>13.35078.0013</b>	4. Project Manager: <b>A. UBBEY</b>
	2a. Project Address: <b>MAIN ST, ST J, VERMONT</b>		4a. Investigator: <b>AL, HM &amp; DP</b>
5. Date: <b>12/19/12</b>	6. Building Name: <b>ST. J MEMORY</b>	8. Turnaround Time <input type="checkbox"/> 3 HRS <input type="checkbox"/> 24 HRS <input checked="" type="checkbox"/> 72 HRS <input type="checkbox"/> OTHER <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> STANDARD	
	7. Sampling Areas: <b>THROUGHOUT</b>	<input checked="" type="checkbox"/> Analyze until 1 <sup>st</sup> positive result in each H group. <input type="checkbox"/> * Hold until further instructions.	

 BULK SAMPLE LOCATION  Please fax results to 802-862-1405  email results to:

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location		15. Material Total Qty. (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates		
H11	11A	PLASTER			NO SAMPLES		
H12	12A	CARPET			ROOM 11 WEST END		
	12B	MASTIC			ROOM 11 @ STAIRS		
	12C	(1ST FLOOR)			ROOM 11 OUTSIDE RM 15		
H13	13A	GYPSON WALLBOARD			NO SAMPLES		
H14	14A	JNT COMPOUND			NO SAMPLES		
H15	15A	DOOR INSULATION			NO SAMPLES		
H16	16A	FLOOR PAINT			ROOM 23 @ DOOR TO STAIRS		
	16B	GRAY			ROOM 23 SOUTH END		
	16C	(BASEMENT)			ROOM 25 @ ROOM 22		
H17	17A	VOID			NO SAMPLE		
H18	18A	CEILING PANELS			NO SAMPLE		
H19	19A	WALL PAINT			SAME AS 20C		
	19B	WHITE			SAME AS 20B		
	19C	(ON BRICK)			SAME AS 20A		
H20	20A	FLOOR PAINT			ROOM 26 @ DOOR		
	20B	BLUE			ROOM 26 CENTER		
	20C	(BASEMENT)			ROOM 26 WEST END		

**CHAIN OF CUSTODY**

17. Relinquished By <i>[Signature]</i>	18. Date <b>12/19/12</b>	19. Time <b>1800</b>	20. Received By: <b>ATC S. HASAN</b>	21. Date <b>12/20/12</b>	22. Time <b>5:00 PM</b>	23. Method of Submittal <input type="checkbox"/> FIELD WALK IN <input type="checkbox"/> US MAIL <input type="checkbox"/> FED-X <input type="checkbox"/> OTHER
II						
III						

**LAB INFORMATION**

24. Name and Signature <i>[Signature]</i>	25. Date <b>12/21/12</b>	26. Time <b>11:59 AM</b>	27. Comments (Lab) <i>[Signature]</i>
24a. Analyzed By:			
24b. Analyzed By:			

BATCH NO. 25538 ✓

171 Commerce Street | PO Box 1486 | Williston, Vermont 05495 | 802-862-1980 tel

**PLM BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

 PROJECT INFORMATION:  Vermont  NY State Code Rule for Asbestos

1. Client <b>NVDA</b>	2. Project Name: <b>ST JOHNSBURY ARMORY</b>	3. Project #: <b>63.35078.0013</b>	4. Project Manager: <b>A. LIBERTY</b>
5. Date: <b>12/1/12</b>	2a. Project Address: <b>MAIN ST, ST J, VERMONT</b>	4a. Investigator: <b>AL, HM &amp; DP</b>	7. Sampling Areas: <b>THROUGHOUT</b>
6. Building Name: <b>ST. J ARMORY</b>	8. Turnaround Time <input type="checkbox"/> 3 HRS <input type="checkbox"/> 24 HRS <input checked="" type="checkbox"/> 72 HRS <input type="checkbox"/> OTHER <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> STANDARD		<input checked="" type="checkbox"/> Analyze until 1 <sup>st</sup> positive result in each H group. <input type="checkbox"/> * Hold until further instructions.

 BULK SAMPLE LOCATION  Please fax results to 802-862-1405  email results to:

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location		15. Material Total Qty. (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates		
H21	21A	12x12 FLOOR			ROOM 18 CENTER		
	21B	TILE -			ROOM 18 @ ROOM 19		
	21C	BEIGE			ROOM 18 WESTSIDE CENTER		
H22	22A	MASTIC w/			SAME AS 21A		
	22B	H21			SAME AS 21B		
	22C	↓			SAME AS 21C		
H23	23A	CARPET MASTIC			NO SAMPLE		
H24	24A	6'0D AIR			ROOM 27 SAFE AREA		
	24B	CELL PIPE			ROOM 25 @ DOOR TO ROOM 18		
	24C	INSULATION			ROOM 29 CENTER		
H25	25A	214 PRESSED BOARD			NO SAMPLE		
H26	26A	BRICK - FIRE			NO SAMPLE		
H27	27A	VOID			NO SAMPLE		
H28	28A	COATING ON			SOUTHSIDE GYM @ CENTER WINDOW		
	28B	BRICK AS			SOUTHSIDE GYM @ SW WINDOW		
	28C	WINDOW SILL			SOUTHSIDE GYM @ SW WINDOW CORNER		

**CHAIN OF CUSTODY**

17. Relinquished By <i>[Signature]</i>	18. Date <b>12/1/12</b>	19. Time <b>1:00</b>	20. Received By: <b>ATC S. HASAN</b>	21. Date <b>12/2/12</b>	22. Time <b>5:00 PM</b>	23. Method of Submittal <input type="checkbox"/> FIELD <input type="checkbox"/> WALK IN <input type="checkbox"/> US MAIL <input type="checkbox"/> FED-X <input type="checkbox"/> OTHER
II						
III						

**LAB INFORMATION**

24. Name and Signature <i>[Signature]</i>	25. Date <b>12/2/12</b>	26. Time <b>11:57 AM</b>	27. Comments (Lab) <i>[Signature]</i>
24a. Analyzed By:			
24b. Analyzed By:			

171 Commerce Street | PO Box 1486 | Williston, Vermont 05495 | 802-862-1980 tel

**PLM BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

PROJECT INFORMATION:  Vermont  NY State Code Rule for Asbestos

1. Client <b>NVDA</b>	2. Project Name: <b>ST JOHNSBURY MEMORY</b>	3. Project #: <b>63.35078.0013</b>	4. Project Manager: <b>A. WEEBY</b>
5. Date: <b>12/1/12</b>	2a. Project Address: <b>MAIN ST, ST J, VERMONT</b>	4a. Investigator: <b>AL, HM &amp; DP</b>	
6. Building Name: <b>ST. J MEMORY</b>	7. Sampling Areas: <b>THROUGHOUT</b>	8. Turnaround Time: <input type="checkbox"/> 3 HRS <input type="checkbox"/> 24 HRS <input checked="" type="checkbox"/> 72 HRS <input type="checkbox"/> OTHER <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> STANDARD	<input checked="" type="checkbox"/> Analyze until 1 <sup>st</sup> positive result in each H group. <input type="checkbox"/> * Hold until further instructions.

BULK SAMPLE LOCATION  Please fax results to 802-862-1405  email results to: \_\_\_\_\_

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location		15. Material Total Qty. (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates		
H29	29A	RSE - BLUE			ROOM 12 EAST WALL		
	29B	MIKROON			ROOM 12 EAST WALL		
	29C	↓			ROOM 12 EAST WALL		
H30	30A	MARBLE ASSOC			SAME AS 29A		
	30B	w/ H29			SAME AS 29B		
	30C	↓			SAME AS 29C		
H31	31A	STAIR RISERS			FIRST FLOOR @ BOTTOM OF STAIR		
	31B	BLACK			FIRST FLOOR @ TOP OF STAIRS		
	31C	↓			BASEMENT STAIRS		
H32	32A	VOID			NO SAMPLE		
H33	33A	GLUE DABS			ROOM 25 @ SADE POOL		
	33B	LT. BROWN			SAME AS 33A		
	33C	↓			SAME AS 33A		
H34	34A	VIBRATION CLOTH			NO SAMPLE		
H35	35A	BLOWN IN			ROOM 18 CENTER		
	35B	INSULATION			ROOM 18 CENTER		
	35C	↓			ROOM 29 EAST SIDE		

**CHAIN OF CUSTODY**

17. Relinquished By <u>I</u>	18. Date <u>12/1/12</u>	19. Time <u>1:00</u>	20. Received By: <u>ATC S. HASAN</u>	21. Date <u>12/20/12</u>	22. Time <u>5:00 P.M.</u>	23. Method of Submittal FIELD WALK IN US MAIL FED-X OTHER
II						
III						

**LAB INFORMATION**

24. Name and Signature <u>ATC</u>	25. Date <u>12/21/12</u>	26. Time <u>11:55 AM</u>	27. Comments (Lab) <u>OCBY</u> <u>Me: W...</u>
24a. Analyzed By: <u>A-J</u>			
24b. Analyzed By:			

171 Commerce Street | PO Box 1486 | Williston, Vermont 05495 | 802-862-1980 tel

**PLM BULK SAMPLE DATA AND CHAIN OF CUSTODY FORM**

PROJECT INFORMATION  Vermont  NY State Code Rule for Asbestos

1. Client <b>NVDA</b>	2. Project Name: <b>ST JOHN'S BURY AEMORY</b>	3. Project #: <b>63.35078.0013</b>	4. Project Manager: <b>A. LIBERTY</b>
5. Date: <b>12/1/12</b>	2a. Mailing Address: <b>MAIN ST, ST J, VERMONT</b>	4a. Investigator <b>AL, HM &amp; DP</b>	
6. Building Name: <b>ST. J AEMORY</b>	8. Turnaround Time <input type="checkbox"/> 3 HRS <input type="checkbox"/> 24 HRS <input checked="" type="checkbox"/> 72 HRS <input type="checkbox"/> OTHER <input type="checkbox"/> 6 HRS <input type="checkbox"/> 48 HRS <input type="checkbox"/> STANDARD		<input checked="" type="checkbox"/> Analyze until 1 <sup>st</sup> positive result in each H group. <input type="checkbox"/> * Hold until further instructions.
7. Sampling Areas: <b>THROUGHOUT</b>			

BULK SAMPLE LOCATION  Please fax results to 802-862-1405  email results to:

10. Homogenous Area No.	11. Bulk Sample ID No.	12. Material	13. Thermal System	14. Sample Location		15. Material Total Qty. (LF, SF, PCS)	16. Asbestos Content (Type & %)
				Floor	Sample Coordinates		
H36	36A	BOILER INSULATION			NO SAMPLE		
H37	37A	INSULATION - BOILER DOOR			NO SAMPLE		
H38	<del>38A</del> 38B 38C	DEBRIS ↓			TOP OF BOILER RM 20 TOP OF HOT WATER TANK RM 20 TOP OF EXHAUST RM 20		
H39	39A	MASTIC ON BASEMENT FLOOR			NO SAMPLE		
H40	40A 40B 40C	PUTTY ON PIPE ↓			EXIT WALL CENTER RM 21 SAME AS 40A SAME AS 40A		
H41	41A	SHEET FLOORING BEHIND			NO SAMPLE		
H42	42A 42B 42C	MTP 6" OD ASSOC W/ H24			SAME AS 24A SAME AS 24B SAME AS 24C		
H43	43A	BOILER INTERNALS			NO SAMPLE		
H44	44A	BOILER GASLET			@FRONT OF BOILER		
H45							

**CHAIN OF CUSTODY**

17. Relinquished By <u>I</u>	18. Date <u>12/1/12</u>	19. Time <u>1:00 PM</u>	20. Received By: <u>Ate S. HASAN</u>	21. Date <u>12/20/12</u>	22. Time <u>5:00 PM</u>	23. Method of Submittal FIELD WALK IN US MAIL FED-X OTHER
II						
III						

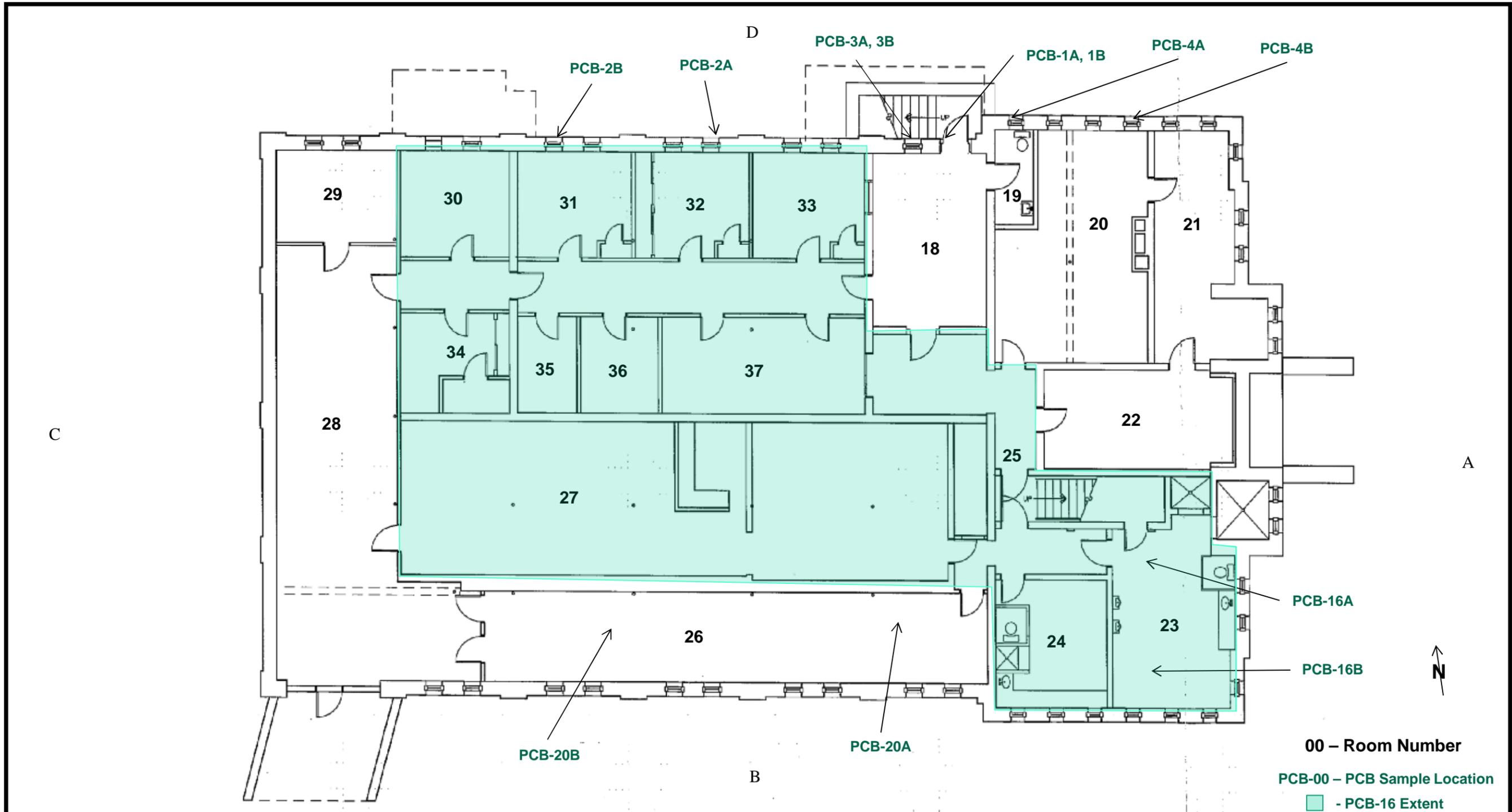
**LAB INFORMATION**

24. Name and Signature <u>ATC</u>	25. Date <u>12/4/12</u>	26. Time <u>11:00 AM</u>	27. Comments (Lab) <u>CCBY</u> <u>M. W...</u>
24a. Analyzed By: <u>ATC</u>			
24b. Analyzed By:			

## **Appendix B**

PCB Sample Location Diagram  
List of Suspect PCB-Containing Materials  
PCB Laboratory Report

PCB Sample Location Diagram

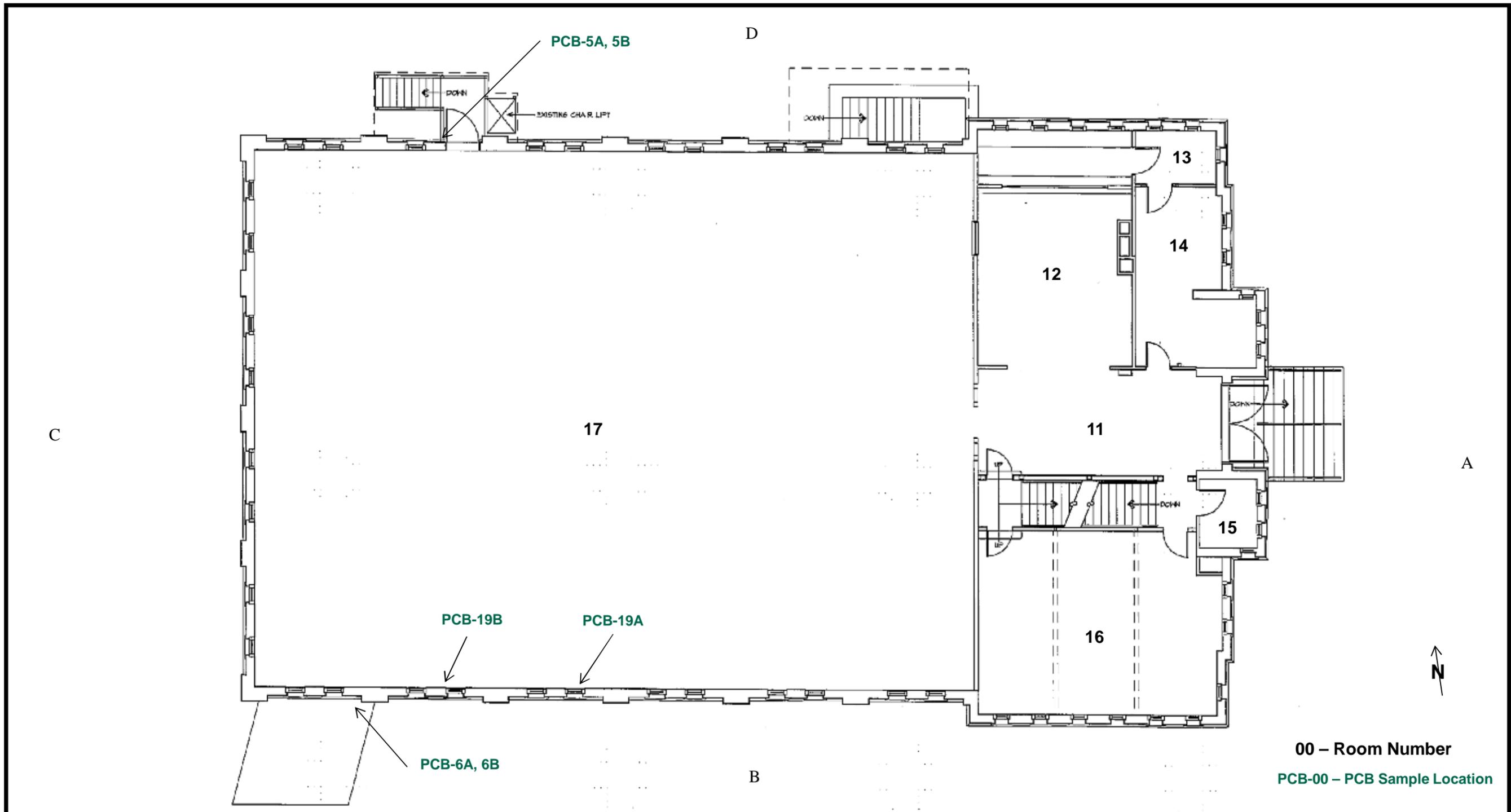


**SAMPLE LOCATION DIAGRAM – PCB's**

Address: St. Johnsbury Armory - Basement  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405



00 – Room Number  
 PCB-00 – PCB Sample Location

**SAMPLE LOCATION DIAGRAM – PCB's**

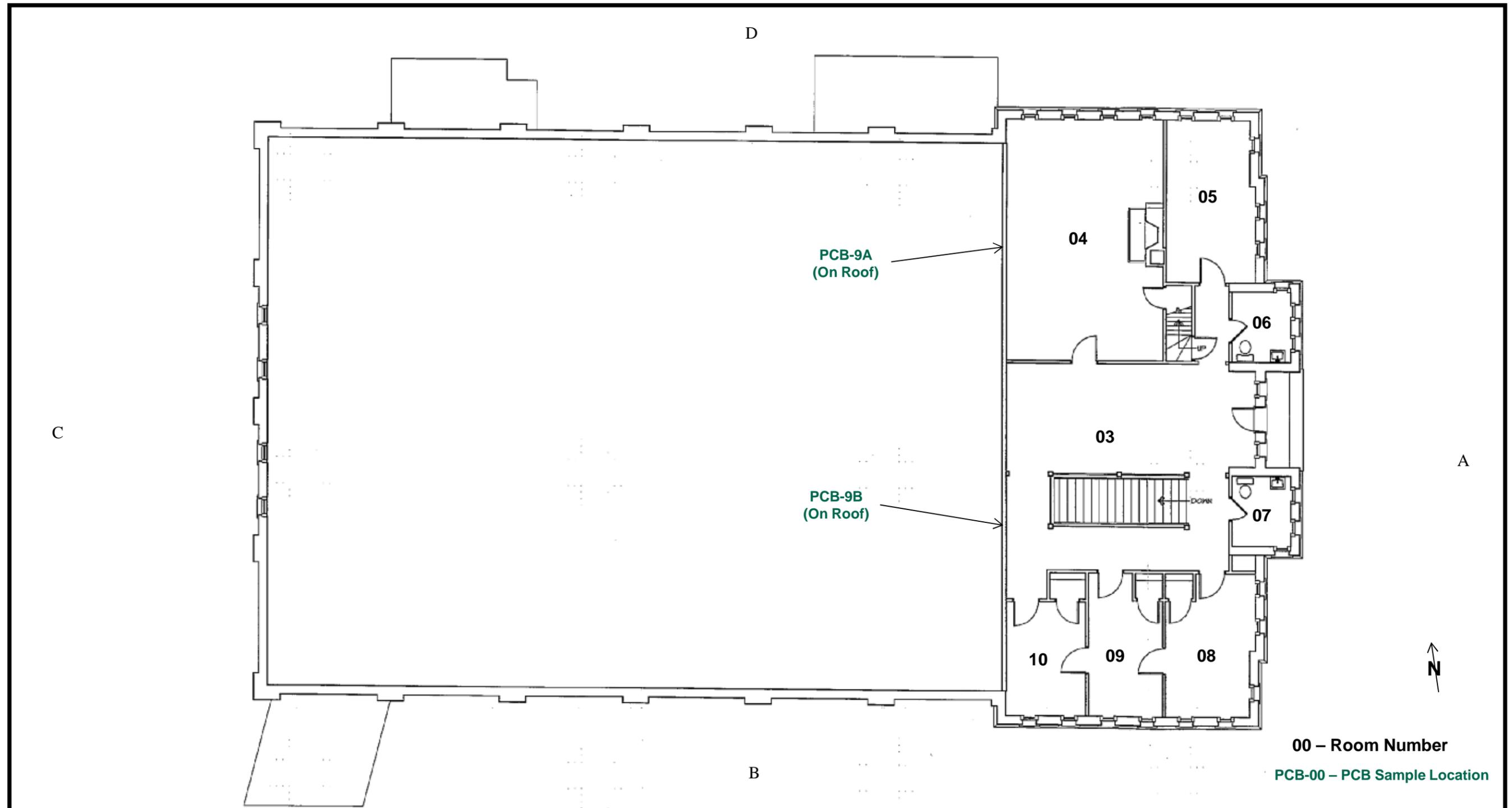
Address: St. Johnsbury Armory – 1<sup>st</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM – PCB's**

Address: St. Johnsbury Armory – 2<sup>nd</sup> Floor

1249 Main Street

St. Johnsbury, Vermont

Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495

Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale

## List of Suspect PCB-Containing Materials

**List of Suspect PCB Containing Materials**  
**Former St. Johnsbury Armory – Caulk & Paint Materials**  
**Cardno ATC Project # 63.35078.0013**  
**December 17, 2012**  
**Page 1 of 1**

<b>Material Description</b>	<b>Results (ppm)</b>	<b>Sample Number</b>
Exterior Door Caulking - Gray	12-14 ppm	PCB-1A-1B
Exterior Window Caulking - White	1.5 ppm	PCB-2A-2B
Window Glazing - White	ND	PCB-3A-3B
Exterior Window Caulking - White	3.5-26 ppm	PCB-4A-4B
Tar Caulking	ND	PCB-5A-5B
Roof Flashing - Silver	ND	PCB-6A-6B
Roof Caulking - Black	ND	PCB-9A-9B
<b>Floor Paint - Gray</b>	<b>4700-5700 ppm</b>	<b>PCB-16A-16C</b>
Wall Paint - White	7.4 ppm	PCB-19A-19B
Floor Paint - Blue	27-44 ppm	PCB-20A-20B

**ND – None Detected**

## PCB Laboratory Report



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: jsmith@emsl.com

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

12/31/2012

**Williston, VT 05495**

Phone: (802) 862-1980

Fax: (802) 862-1405

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/27/2012. The results are tabulated on the attached data pages for the following client designated project:

**63.35078.0013**

The reference number for these samples is EMSL Order #011205781. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

Julie Smith - Laboratory Director



The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.  
NELAP Certifications: NJ 03036, NY 10896, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205781  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**  
  
**Williston, VT 05495**  
 Project: 63.35078.0013

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/27/12 10:00 AM  
 Collected: 12/17/2012

**Analytical Results**

<i>Client Sample Description</i>					<i>Collected:</i>	<i>12/17/2012</i>	<i>Lab ID:</i>	<i>0001</i>
1A		H1 - Door Caulking Grey				10:05:00 AM		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
3540C/8082A	Aroclor-1016	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	12	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.93	mg/Kg	12/27/2012	RS	12/28/2012	EH
<i>Client Sample Description</i>					<i>Collected:</i>	<i>12/17/2012</i>	<i>Lab ID:</i>	<i>0002</i>
1B		H1 - Door Caulking Grey				10:06:00 AM		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
3540C/8082A	Aroclor-1016	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	14	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
<i>Client Sample Description</i>					<i>Collected:</i>	<i>12/17/2012</i>	<i>Lab ID:</i>	<i>0003</i>
2A		H2 - Window Caulk White				10:15:00 AM		
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>
3540C/8082A	Aroclor-1016	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	1.5	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.84	mg/Kg	12/27/2012	RS	12/28/2012	EH

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205781  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/27/12 10:00 AM  
 Collected: 12/17/2012

**Williston, VT 05495**

Project: 63.35078.0013

### Analytical Results

<i>Client Sample Description</i>		2B		<i>Collected:</i>		12/17/2012		<i>Lab ID:</i>		0004	
		H2 - Window Caulk White				10:20:00 AM					
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>			
3540C/8082A	Aroclor-1016	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1221	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1232	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1242	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1248	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1254	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1260	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1262	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1268	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH			

<i>Client Sample Description</i>		3A		<i>Collected:</i>		12/17/2012		<i>Lab ID:</i>		0005	
		H3 - Window Glaze				10:22:00 AM					
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>			
3540C/8082A	Aroclor-1016	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1221	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1232	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1242	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1248	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1254	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1260	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1262	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1268	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH			

<i>Client Sample Description</i>		3B		<i>Collected:</i>		12/17/2012		<i>Lab ID:</i>		0006	
		H3 - Window Glaze				10:26:00 AM					
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL</i>	<i>Units</i>	<i>Prep Date</i>	<i>Analyst</i>	<i>Analysis Date</i>	<i>Analyst</i>			
3540C/8082A	Aroclor-1016	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1221	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1232	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1242	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1248	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1254	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1260	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1262	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			
3540C/8082A	Aroclor-1268	ND	0.64	mg/Kg	12/27/2012	RS	12/28/2012	EH			

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2600 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205781  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**  
  
**Williston, VT 05495**  
 Project: 63.35078.0013

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/27/12 10:00 AM  
 Collected: 12/17/2012

**Analytical Results**

**Client Sample Description** 4A  
 H4 - Window Caulk  
**Collected:** 12/17/2012 10:31:00 AM  
**Lab ID:** 0007

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	26	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.85	mg/Kg	12/27/2012	RS	12/28/2012	EH

**Client Sample Description** 4B  
 H4 - Window Caulk  
**Collected:** 12/17/2012 10:35:00 AM  
**Lab ID:** 0008

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	3.5	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH

**Client Sample Description** 5A  
 H5 - Tar Caulking  
**Collected:** 12/17/2012 10:40:00 AM  
**Lab ID:** 0009

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.82	mg/Kg	12/27/2012	RS	12/28/2012	EH

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205781  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/27/12 10:00 AM  
 Collected: 12/17/2012

**Williston, VT 05495**

Project: 63.35078.0013

**Analytical Results**

Client Sample Description		5B	Collected:	12/17/2012	Lab ID:	0010			
		H5 - Tar Caulking	10:42:00 AM						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
3540C/8082A	Aroclor-1016	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1221	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1232	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1242	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1248	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1254	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1260	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1262	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1268	ND	0.71	mg/Kg	12/27/2012	RS	12/28/2012	EH	

Client Sample Description		6A	Collected:	12/17/2012	Lab ID:	0011			
		H6 - Silver Flashing	11:01:00 AM						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
3540C/8082A	Aroclor-1016	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1221	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1232	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1242	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1248	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1254	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1260	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1262	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1268	ND	0.49	mg/Kg	12/27/2012	RS	12/28/2012	EH	

Client Sample Description		6B	Collected:	12/17/2012	Lab ID:	0012			
		H6 - Silver Flashing	11:02:00 AM						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst	
3540C/8082A	Aroclor-1016	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1221	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1232	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1242	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1248	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1254	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1260	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1262	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	
3540C/8082A	Aroclor-1268	ND	0.61	mg/Kg	12/27/2012	RS	12/28/2012	EH	

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205781  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/27/12 10:00 AM  
 Collected: 12/17/2012

**Williston, VT 05495**

Project: 63.35078.0013

**Analytical Results**

**Client Sample Description** 16B **Collected:** 12/17/2012 **Lab ID:** 0016  
 H16 - Floor Paint Grey 11:40:00 AM

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	4600	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	540	mg/Kg	12/27/2012	RS	12/28/2012	EH

**Client Sample Description** 16C **Collected:** 12/17/2012 **Lab ID:** 0017  
 H16 - Floor Paint Grey 11:49:00 AM

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	5700	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	500	mg/Kg	12/27/2012	RS	12/28/2012	EH

**Client Sample Description** 19A **Collected:** 12/17/2012 **Lab ID:** 0018  
 H19 - White Wall Paint 11:55:00 AM

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	7.4	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.89	mg/Kg	12/27/2012	RS	12/28/2012	EH

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205781  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/27/12 10:00 AM  
 Collected: 12/17/2012

**Williston, VT 05495**

Project: 63.35078.0013

**Analytical Results**

**Client Sample Description** 19B **Collected:** 12/17/2012 **Lab ID:** 0019  
 H19 - White Wall Paint 11:55:00 AM

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	7.4	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.50	mg/Kg	12/27/2012	RS	12/28/2012	EH

**Client Sample Description** 20A **Collected:** 12/17/2012 **Lab ID:** 0020  
 H20 - Blue Floor Paint 12:05:00 PM

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	27	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1260	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1262	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1268	ND	0.79	mg/Kg	12/27/2012	RS	12/28/2012	EH

**Client Sample Description** 20B **Collected:** 12/17/2012 **Lab ID:** 0021  
 H20 - Blue Floor Paint 12:06:00 PM

Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
3540C/8082A	Aroclor-1016	ND	0.88	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1221	ND	0.88	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1232	ND	0.88	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1242	ND	0.88	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1248	ND	0.88	mg/Kg	12/27/2012	RS	12/28/2012	EH
3540C/8082A	Aroclor-1254	44	5.5	mg/Kg	12/27/2012	RS	12/31/2012	EH
3540C/8082A	Aroclor-1260	ND	5.5	mg/Kg	12/27/2012	RS	12/31/2012	EH
3540C/8082A	Aroclor-1262	ND	5.5	mg/Kg	12/27/2012	RS	12/31/2012	EH
3540C/8082A	Aroclor-1268	ND	0.88	mg/Kg	12/27/2012	RS	12/28/2012	EH



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order:	011205781
CustomerID:	ATCE53
CustomerPO:	
ProjectID:	

**Definitions:**

ND - indicates that the analyte was not detected at the reporting limit  
RL - Reporting Limit

Chain of Custody Record

01205781

TestAmerica Burlington  
30 Community Drive, Suite 11  
South Burlington, VT 05403  
Phone: (802) 660-1990

Client Information		Sampler: D.P.		Lab PM: S. Goff		Carrier Tracking No(s):		COC No:	
Client Contact: Harland Miller		Phone:		E-Mail:		Analysis Requested		Page: 1 of 2	
Company: Cardno ATC		Due Date Requested:		Field Filtered Sample (Yes or No)		Total Number of Containers		Job #:	
Address: 171 Commerce St.		TAT Requested (days): 9 standard		Perform MS/MSD (Yes or No)		Special Instructions/Note:		Preservation Codes:	
City: Williston		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater, ET=tissue, A=air)	
State, Zip: VT 05495		12/17		1057		G		S	
Phone: 802 862 1980		12/17		1058		G		S	
Email: Harland.Miller@Cardno.com		12/17		1059		G		S	
Project Name: St. S Armory		12/17		1020		G		S	
Site: St. Johnsbury VT		12/17		1022		G		S	
Sample Identification - Client ID		12/17		1026		G		S	
H1 - Door Caulking Gray		12/17		1031		G		S	
" "		12/17		1035		G		S	
H2 - Window Caulk White		12/17		1010		G		S	
" "		12/17		1012		G		S	
H3 - Window Glaze		12/17		1101		G		S	
" "		12/17				G		S	
H4 - Window Caulk		12/17				G		S	
" "		12/17				G		S	
H5 - Tar Caulking		12/17				G		S	
" "		12/17				G		S	
H6 - Silver flashing		12/17				G		S	
Possible Hazard Identification		12/17				G		S	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		12/17				G		S	
<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		12/17				G		S	
Deliverable Requested: I, II, III, IV, Other (specify)		12/17				G		S	
Relinquished by:		12/17				G		S	
Relinquished by:		12/17				G		S	
Relinquished by:		12/17				G		S	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		12/17				G		S	
Custody Seal No.:		12/17				G		S	

Sample #'s

Special Instructions/Note:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Received by:	Signature	Date/Time:	12/19/12 1530	Company:	JARAR
Received by:	Signature	Date/Time:	12/26/12 1116	Company:	Cardno
Received by:	Signature	Date/Time:	12/27/12 10:00AM	Company:	EMSL
Cooler Temperature(s) °C and Other Remarks:					

01205781

Chain of Custody Record

Client Information		Sampler: D.P.	Lab P/N:	Carrier Tracking No(s):	COC No:
Client Contact: Harland Miller		Phone:	E-Mail:	Page: Z of Z	Job #:
Company: Cardus ATC		Due Date Requested:	Analysis Requested		
Address: 571 Commerce St.		TAT Requested (days):	Perform Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		
City: Williston		Standard	Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>		
State, Zip: VT 05495		PO #:	Total Number of Containers		
Phone: 802 862 1980		WO #:	Special Instructions/Note:		
Email: Harland.Miller@Cardus.com		Project #:	Sample #s		
Project Name: St. S Armory		SSOW#:	Special Instructions/Note:		
Site: St. Johnsbury VT			Special Instructions/Note:		
Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sealed, On-surface, ET-1000, A=Air)	Preservation Code
H6 - Silver Flashing	12/17	1102	G	S	6B
H7 - Black Roof Cork		1140			9A
H8 - "		1140			9B
H16 - Floor Paint Grey		1145			16A
"		1149			16B
"		1149			16C
H19 - White wall Paint		1155			19A
"		1155			19B
H20 - Blue Floor Paint		1201			20A
"		1206			20B

SM 876.862 WITH 3510 PAPE

SW 876.862 WITH 3510 PAPE

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Relinquished by: [Signature] Date/Time: 12/26/12 1055 Company: TA-BML  
 Relinquished by: [Signature] Date/Time: 12/27/12 10:00AM Company: EAGLE  
 Relinquished by: [Signature] Date/Time: 12/27/12 110 Company: PER-ADP

Custody Seals Intact:  Yes  No  Δ  No  
 Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: Francis Albert

## **Appendix C**

Building Diagram with Room Numbers

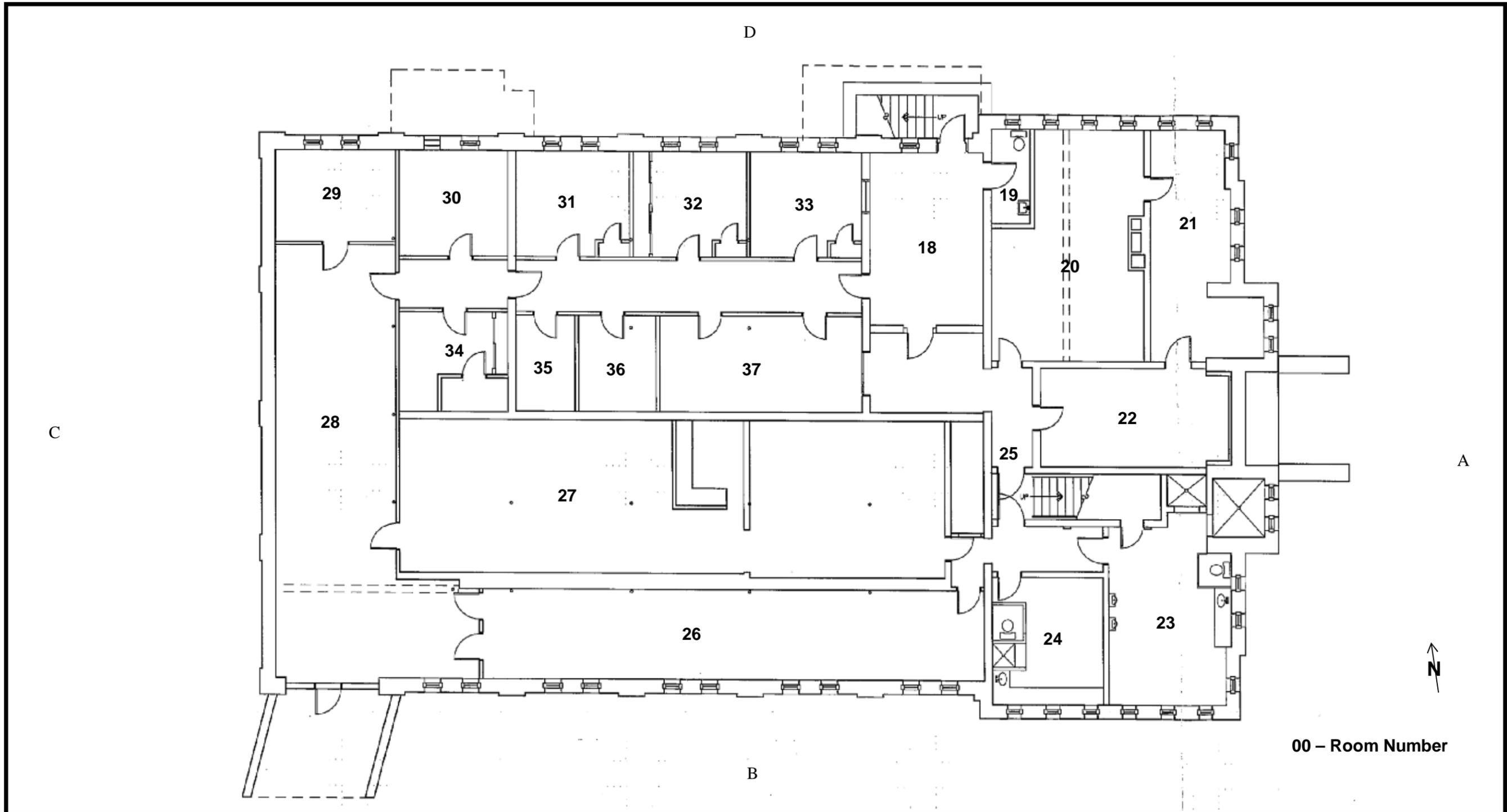
XRF Field Sheets

XRF Protocol

Performance Characteristic Sheet

XRF QA/QC Results

## Building Diagram with Room Numbers



00 – Room Number

**SAMPLE LOCATION DIAGRAM**

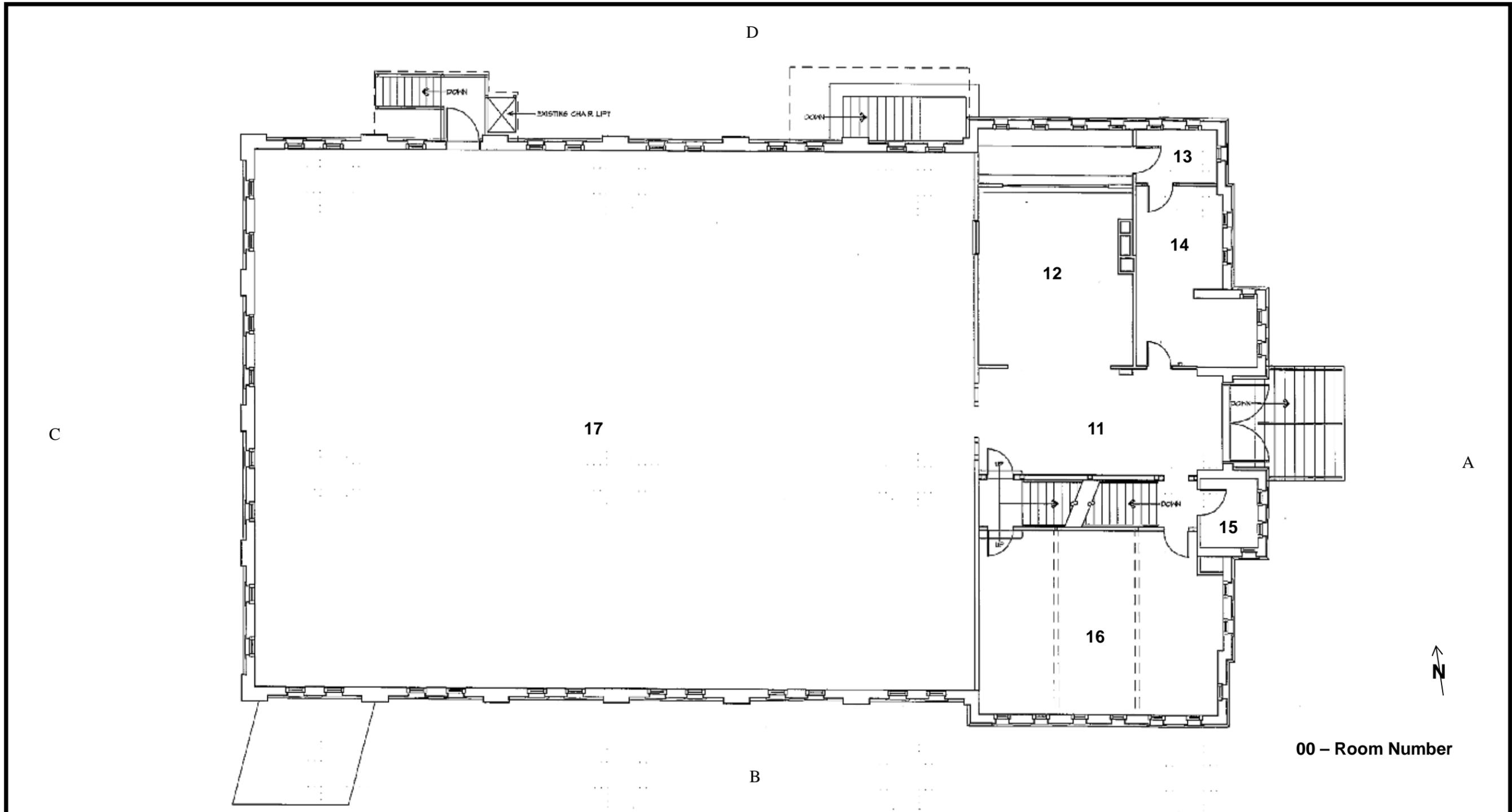
Address: St. Johnsbury Armory - Basement  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM**

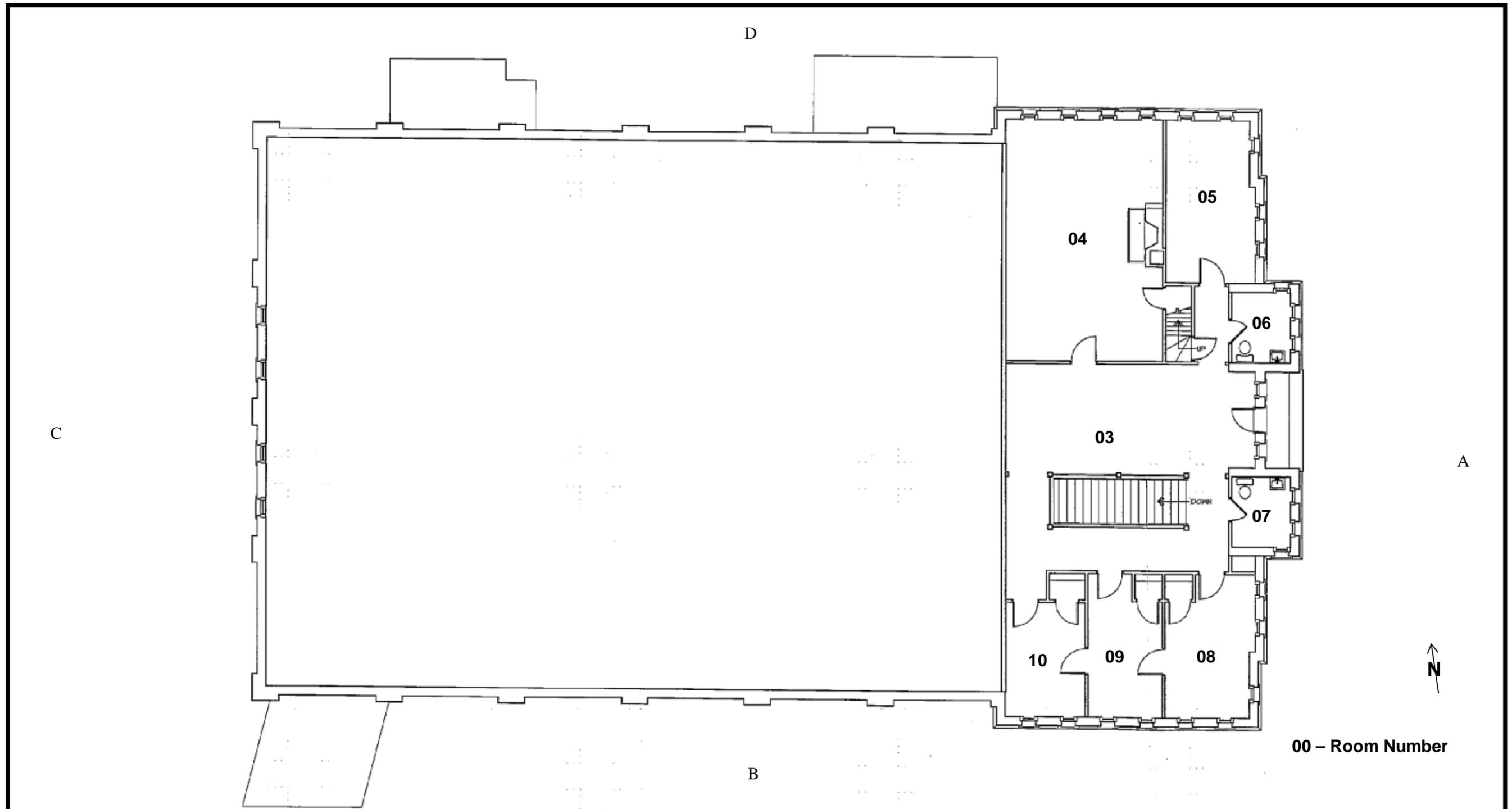
Address: St. Johnsbury Armory – 1<sup>st</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM**

Address: St. Johnsbury Armory – 2<sup>nd</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale

## XRF Field Sheets

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 3 Use: \_\_\_\_\_ LEVEL: 2

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	P	W		0.0					
Crown Molding										
Wall	F	P	W	A	0.3					
Wall	↓	↓	↓	B	0.7					
Wall	↓	↓	↓	C	0.7					
Wall	↓	↓	↓	D	0.6					
Baseboard / Assoc. Trim	FF	W	BR	A	0.2		AM			
Floor	FF	W	S		0.1					
Radiator/Rad Cover	FF	M	Silver		0.0					
Shelves										
<b>DOOR TYPE 1</b>										
Door	FF	W	BR	AZ	0.1		All			
Casing	↓	↓	↓	↓	0.2		↓			
Jamb	↓	↓	↓	↓	0.1		↓			
Stop	↓	↓	↓	↓	0.2		↓			
Threshold										
<b>DOOR TYPE 2</b>										
Door	F	W	R	BI	0.0					
Casing	↓	↓	↓	↓						
Jamb	↓	↓	↓	↓						
Stop	↓	↓	↓	↓						
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	FF	W	BR	A1	0.0		All			
Stop	G	W	BR	↓	0.1		↓			
Jamb	P	W	—	↓	0.2		↓			
Window Well	FF	W	W	↓	0.9		↓			LBP
Sill	FF	W	BR	↓	0.2		↓			
Sash/Mullion	FF	W	BR	↓	0.2		↓			
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion	G	W	BR		0.1					

CALIBRATIONS TIME: 1000 12/10/12

Manufacturer's Block	Block Tested Value: 1.0	1st Reading: 1.0	2nd Reading: 1.0	3rd Reading: 1.0
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading: 1.0	2nd Reading: 1.0	3rd Reading: 1.0
Zero Lead Reference:		1st Reading: 0.0	2nd Reading: 0.0	3rd Reading: 0.0

REMARKS:

LEGEND

CONDITION	SUBSTRATE		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	WP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	CPT = CARPETED	BLK = BLACK	GR = GREEN
		O = OTHER	BR = BROWN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 4 Use: \_\_\_\_\_ LEVEL: 2

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	W	W		0.0					
Crown Molding	G	W	W	A	0.1		AH			
Wall	G	P	BR	A	0.2	0.7				
Wall				B	0.3					
Wall				C	0.0					
Wall				D	0.2					
Baseboard / Assoc. Trim	G	W	BR		0.1					
Floor	G	W	S		0.1					
Radiator/Rad Cover	G	M	Silver	D	0.0					
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	BR	A	0.1		AH			
Casing					0.2					
Jamb					0.1					
Stop					0.1					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G P	W	BR	D1	0.1		AH			
Stop	G P	W	BR		0.0					
Jamb	G P	W	BR		0.2					
Window Well	FIT	W	W		>9.9					LBP
Sill	FIT	W	BR		0.2					
Sash/Mullion	FIT	W	BR		0.1					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Exterior	G	W	BR		0.0					
Lower Well	G	P	W	A	0.2					

CALIBRATIONS		TIME:		
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	WP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	O = OTHER	BR = BROWN	
	CPT = CARPETED	BLK = BLACK	GR = GREEN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 5 Use: \_\_\_\_\_ LEVEL: 2

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	O	W		0.1					
Crown Molding										
Wall	G	W	S	A	0.2					
Wall	↓	↓	↓	B	0.0					
Wall	↓	↓	↓	C	0.1					
Wall	↓	↓	↓	D	0.1					
Baseboard / Assoc. Trim	G	W	W		0.2					
Floor	G	CPT	BL		0.2					
Radiator/Rad Cover	G	M	Silver		0.1					
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	W	B	0.3					
Casing	↓	↓	↓	↓	0.1					
Jamb	↓	↓	↓	↓	0.2					
Stop	↓	↓	↓	↓	0.2					
Threshold										
<b>DOOR TYPE 2</b>										
Door	G	W	W	B	0.0					
Casing	↓	↓	↓	↓	0.1					
Jamb	↓	↓	↓	↓	0.2					
Stop	↓	↓	↓	↓	0.1					
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	W	A1	0.1		AH			
Stop	↓	↓	↓	↓	0.2					
Jamb	↓	↓	↓	↓	0.1					
Window Well	↓	↓	↓	↓	0.3					
Sill	↓	↓	↓	↓	0.1					
Sash/Mullion	↓	↓	↓	↓	0.3					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

*Handwritten note:* door type 1

CALIBRATIONS		TIME:			
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:	
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:	
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:	

REMARKS:

**LEGEND**

<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	B = BRICK	WP = WALLPAPER
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	C = CONCRETE	V = VARNISH C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	O = OTHER	S = STAIN T = TAN
	M = METAL		BL = BLUE GY = GREY
	CPT = CARPETED		BLK = BLACK GR = GREEN
			PP = PURPLE
			Y = YELLOW
			R = RED
			P = PINK
			BR = BROWN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 2012  
 ROOM #: 6 Use: \_\_\_\_\_ LEVEL: 2

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	P	W		0.0					
Crown Molding										
Wall	G	P	BR	A	0.2					
Wall	↓	↓	↓	B	-0.1					
Wall	↓	↓	↓	C	0.1					
Wall	↓	↓	↓	D	0.0					
Baseboard / Assoc. Trim	G	WP	BR	A	-0.3					
Floor	G	W	S		0.1					
Radiator/Rad Cover	F	M	silv	A	0.0					
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	RR	C	0.2					
Casing	G	↓	↓	↓	0.1					
Jamb	G	↓	↓	↓	0.0					
Stop	G	↓	↓	↓	0.1					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	BR	DI	0.2		AN			
Stop	G	W	BR		0.1		↓			
Jamb	G	W	BR		-0.3					
Window Well	G	W	W		0.1					
Sill	F	W	RR		0.0					
Sash/Mullion	F	W	BR	↓	0.3					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS	TIME:	1st Reading:	2nd Reading:	3rd Reading:
Manufacture's Block	Block Tested Value: 1.0			
NIST Block (30 sec.)	NIST Value: 1.02			
Zero Lead Reference:				

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>	<b>WP= WALLPAPER</b>	<b>PP= PURPLE</b>
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	BRK = BRICK	R = RED
	CPT = CARPETED	C = CONCRETE	P = PINK
		O = OTHER	BLK = BLACK
			GR = GREEN
			BR = BROWN



SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 8 Use: \_\_\_\_\_ LEVEL: 2

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	P	W		0.2					
Crown Molding	G	W	W	A	0.1		A-4			
Wall	G	P	Y	A	0.2					
Wall	↓	↓	↓	B	0.1					
Wall	↓	↓	↓	C	0.0					
Wall	↓	↓	↓	D	0.2					
Baseboard / Assoc. Trim	G	W	R	A	0.1		A-11			
Floor	G	W	S		0.1					
Radiator/Rad Cover	G	M	Silv		0.1					
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	R	D	0.0		A-11			
Casing	↓	↓	↓	↓	0.2		↓			
Jamb	↓	↓	↓	↓	0.1		↓			
Stop	↓	↓	↓	↓	0.2		↓			
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	R	A	0.1		A-11			
Stop	G	W	R	↓	0.1		↓			
Jamb	F	W	R	↓	0.3		↓			
Window Well	P	W	R	↓	79.9		↓			LBP
Sill	G	W	R	↓	0.1		↓			
Sash/Mullion	G	W	R	↓	0.2		↓			
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:		
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	B = BRICK	WP = WALLPAPER
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	C = CONCRETE	V = VARNISH
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	O = OTHER	S = STAIN
	M = METAL		C = CREAM
	CPT = CARPETED		T = TAN
			R = RED
			BL = BLUE
			GY = GREY
			PP = PURPLE
			Y = YELLOW
			GR = GREEN
			BR = BROWN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 9 Use: \_\_\_\_\_ LEVEL: 2

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	P	W	D	0.3					
Crown Molding	G	P	W	D	0.2		A11			
Wall	G	P	W	A	0.1					
Wall	↓	↓	↓	B	0.2					
Wall	↓	↓	↓	C	0.1					
Wall	↓	↓	↓	D	0.1					
Baseboard / Assoc. Trim	G	W	BLU	C	0.1		A11			
Floor	G	W	S		0.2					
Radiator/Rad Cover	G	M	6-Tiler		0.1					
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	BLU	D1	0.3		D2			
Casing	↓	↓	↓	↓	0.1		↓			
Jamb	↓	↓	↓	↓	0.2		↓			
Stop	↓	↓	BR	↓	0.1		↓			
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	PPG P	W	BLU	BT	0.3		A11			
Stop	PPG P	W	BLU	↓	0.1		↓			
Jamb	PPG P	W	BLU	↓	0.1		↓			
Window Well	PPG P	W	W	↓	79.9		↓			LBP
Sill	PPG P	W	W	↓	0.1		↓			
Sash/Mullion	PPG P	W	W	↓	0.2		↓			
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:	
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:

REMARKS:

LEGEND

CONDITION

G = GOOD (NO VISABLE DAMAGE)  
 F = FAIR (LESS THAN 10% DAMAGE)  
 P = POOR (GREATER THAN 10% DAMAGE)

SUBSTRATE

P = PLASTER  
 SR = SHEETROCK  
 W = WOOD  
 M = METAL  
 CPT = CARPETED  
 B = BRICK  
 C = CONCRETE  
 O = OTHER

WP= WALLPAPER

V = VARNISH  
 S = STAIN  
 BL = BLUE  
 BLK = BLACK  
 C = CREAM  
 T = TAN  
 GY = GREY  
 GR = GREEN

PP= PURPLE

Y = YELLOW  
 R = RED  
 P = PINK  
 BR = BROWN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 1<sup>st</sup> 2012  
 ROOM #: 16 Use: \_\_\_\_\_ LEVEL: 2

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm <sup>2</sup>	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	EF	W	W		0.0					
Crown Molding	G	W	W		0.2					
Wall	P	P	W	A	0.1					
Wall	↓	↓	↓	C	0.0					
Wall	↓	↓	↓	C	0.0					
Wall	↓	↓	↓	C	0.3					
Baseboard / Assoc. Trim	F	W	W	C	0.3		A11			
Floor	G	W	S		0.1					
Radiator/Rad Cover	P	M	silver		0.2					
Shelves										
<b>DOOR TYPE 1</b>										
Door	P	W	W	BI	0.1		A11			
Casing	↓	↓	↓	↓	0.3					
Jamb	↓	↓	↓	↓	0.1					
Stop	P	W	BR	↓	0.0					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	P	W	W	BI	0.0		A11			
Stop	↓	↓	↓	↓	0.2					
Jamb	↓	↓	↓	↓	0.1					
Window Well	↓	↓	↓	↓	79.9					LBP
Sill	↓	↓	↓	↓	0.0					
Sash/Mullion	P	W	W	↓	0.2					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:	1230				
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	1.0	2nd Reading:	1.1	3rd Reading:	1.0
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	1.0	2nd Reading:	1.0	3rd Reading:	1.0
Zero Lead Reference:		1st Reading:	0.0	2nd Reading:	0.0	3rd Reading:	0.1

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	VP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	CPT = CARPETED	BLK = BLACK	GR = GREEN
		O = OTHER	BR = BROWN



SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 12 Use: \_\_\_\_\_ LEVEL: 1

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G-F	SR	W		0.3					
Crown Molding										
Wall	G	SR	W	A	0.2					
Wall	↓	↓	↓	B	0.1					
Wall	↓	↓	↓	C	0.2					
Wall	↓	↓	↓	D	0.3					
Baseboard / Assoc. Trim	G	W	GR	C	0.1		A1			
Floor	G	CPT	R		0.2					
Radiator/Rad Cover					0.2					
Shelves <u>Bar</u>	G	W	S	D	0.0					
<b>DOOR TYPE 1</b>										
Door	G	W	GY	A	0.2					
Casing	G	W	GR	↓	0.1					
Jamb	G	W	GR	↓	0.5					
Stop	G	W	GR	↓	0.3					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	GR	DR	0.1		A11			
Stop	↓	↓	↓	↓	0.3		↑↓			
Jamb	↓	↓	↓	↓	0.2					
Window Well	P	W	W		29.9					LSP
Sill	G	W	GR	↓	0.0					
Sash/Mullion	G	W	GR	↓	0.2					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:			
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:	
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:	
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:	

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>	<b>WP= WALLPAPER</b>	<b>PP= PURPLE</b>
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	GR = GREEN	BR = BROWN
	CPT = CARPETED		
	B = BRICK		
	C = CONCRETE		
	O = OTHER		



SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 10 2012

ROOM #: 14 Use: \_\_\_\_\_ LEVEL: 1

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cu2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	SR	W		0.0					
Crown Molding										
Wall	G	SR	W	A	0.2					
Wall	↓	↓	↓	B	0.3					
Wall	↓	↓	↓	C	0.1					
Wall	↓	↓	↓	D	0.2					
Baseboard / Assoc. Trim	G	W	GR	C	0.1		A 4			
Floor	G	CPT	BLU		6.0					
Radiator/Rad Cover	G	M	Silver	A	0.1					
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	S	B	0.1		B			
Casing	G	W	GR	↓	0.2		D			
Jamb	↓	↓	↓	↓	0.1		↓			
Stop	↓	↓	↓	↓	0.0		↓			
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	GR	AZ	0.2		A 11			
Stop	G	W	GR	↓	0.3		↓			
Jamb	G	W	GR	↓	0.1		↓			
Window Well	G	W	W	↓	29.9		↓			LBP
Sill	G	W	GR	↓	0.1		↓			
Sash/Mullion	G	W	GR	↓	0.2		↓			
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:			
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:	
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:	
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:	

REMARKS:

LEGEND			
CONDITION	SUBSTRATE	WP= WALLPAPER	PP= PURPLE
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	BLK = BLACK	GR = GREEN
	CPT = CARPETED	O = OTHER	BR = BROWN

SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 10 2012

ROOM #: 15 Use: \_\_\_\_\_ LEVEL: 1

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	W	W		0.0					
Crown Molding	F	W	P	↓	0.2		A11			
Wall		P	P		0.1					
Wall	↓	↓	↓	C	-0.3					
Wall				C	0.1					
Wall				D	1.2					
Baseboard / Assoc. Trim	G	W	P	A	0.1		A11			
Floor										
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	GR	C	0.0					
Casing	F	W	P	↓	0.2					
Jamb	F	W	BR	↓	0.3					
Stop	F	W	GR	↓	0.1					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	T	W	P	A1	0.4	0.1	A11			
Stop	T	W	P	↓	0.2	0.0				
Jamb	T	W	P	↓	0.1	-0.2				
Window Well	P	W	P	↓	0.3	0.0				
Sill	T	W	P	↓	0.1	0.1				
Sash/Mullion	T	W	P	↓	0.3	0.0				
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:	
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>	<b>WP= WALLPAPER</b>	<b>PP= PURPLE</b>
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	BR = BROWN	
	CPT = CARPETED	BLK = BLACK	GR = GREEN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 16 Use: \_\_\_\_\_ LEVEL: 1

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	W	W		0.0					
Crown Molding	G	W	W	A	0.2		All			
Wall	G	BR	W	A	0.1					
Wall	↓			B	0.3					
Wall	↓			C	0.1					
Wall	↓			D	0.0					
Baseboard / Assoc. Trim	G	W	GR		0.2					
Floor	G	W	S		0.1					
Radiator/Rad Cover	G	M	Silver	A	0.3		B			
Shelves										
Rad cover	G	W	GR	B	0.0					
DOOR TYPE 1										
Door	G	W	W	D1	0.0		D2			
Casing	G	W	GR	↓	0.2		↓			
Jamb	G	W	GR	↓	0.1					
Stop	G	W	GR	↓	0.0					
Threshold										
DOOR TYPE 2										
Door										
Casing										
Jamb										
Stop										
Threshold										
WINDOW TYPE 1										
Casing/Apron	G	W	GR		0.2					
Stop	↓	↓	↓		0.1					
Jamb	↓	↓	↓		0.3					
Window Well	P	W	W		79.1					
Sill	G	W	GR		0.0					
Sash/Mullion	G	W	BR		0.2					
WINDOW TYPE 2										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
stair riser	G	W	W	D	0.0					
tread	G	W	W	D	0.2					

CALIBRATIONS	TIME:	1st Reading:	2nd Reading:	3rd Reading:
Manufacture's Block	Block Tested Value: 1.0			
NIST Block (30 sec.)	NIST Value: 1.02			
Zero Lead Reference:				

REMARKS:

LEGEND

CONDITION

G = GOOD (NO VISABLE DAMAGE)  
 F = FAIR (LESS THAN 10% DAMAGE)  
 P = POOR (GREATER THAN 10% DAMAGE)

SUBSTRATE

P = PLASTER  
 SR = SHEETROCK  
 W = WOOD  
 M = METAL  
 CPT = CARPETED  
 B = BRICK  
 C = CONCRETE  
 O = OTHER

WP= WALLPAPER

V = VARNISH  
 S = STAIN  
 BL = BLUE  
 BLK = BLACK

PP= PURPLE

C = CREAM  
 T = TAN  
 GR = GREEN  
 Y = YELLOW  
 R = RED  
 P = PINK  
 BR = BROWN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 10 2012  
 ROOM #: 17 Use: \_\_\_\_\_ LEVEL: 1

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	W	W		0.1					
Crown Molding										
Wall	G	B	W	A	0.3					
Wall				B	0.2					
Wall	↓	↓	↓	C	0.1					
Wall	↓	↓	↓	D	0.3					
Baseboard / Assoc. Trim										
Floor	G	W	S		0.1					
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	S	D	0.0					
Casing	↓	↓	↓	↓	0.1					
Jamb	↓	↓	↓	↓	0.2					
Stop										
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	G-R		0.0					
Stop	G	W	G-R		0.2					
Jamb	G	W	C-R		0.1					
Window Well	P	W	W		79.9					LBP
Sill	G	W	G-R		0.0					
Sash/Mullion	G	W	G-R		0.2					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Closet wall	G	W	W		0.0					

CALIBRATIONS		TIME:	
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:
		3rd Reading:	3rd Reading:

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	WP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	CPT = CARPETED	BLK = BLACK	GR = GREEN
			BR = BROWN
			Y = YELLOW
			R = RED
			P = PINK

SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 10 2012

ROOM #: 19 Use: \_\_\_\_\_

LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm <sup>2</sup>	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling										
Crown Molding										
Wall <i>Upper</i>	P	B	W	A	0.4					
Wall	G	↓	↓	B	0.5					
Wall	G	↓	↓	C	0.7					
Wall	G	↓	↓	D	0.3					
Baseboard / Assoc. Trim										
Floor										
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	M	Blk	D	0.0					
Casing	↓	↓	↓	↓	0.2					
Jamb	↓	↓	↓	↓	0.1					
Stop	↓	↓	↓	↓	0.0					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	GRN	D	0.2					
Stop	↓	↓	↓	↓	0.1					
Jamb	↓	↓	↓	↓	0.0					
Window Well	↓	↓	↓	↓	0.0					
Sill	↓	↓	↓	↓	0.0					LSP
Sash/Mullion	↓	↓	↓	↓	0.2					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Wall lower	P	B	WGR	A	0.1					
↓	G	B	↓	B	0.3					
↓	↓	↓	↓	C	0.1					
↓	↓	↓	↓	T	0.0					

CALIBRATIONS TIME:				
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:

REMARKS:

<b>LEGEND</b>			
<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	WP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	CPT = CARPETED	BLK = BLACK	GR = GREEN
		O = OTHER	BR = BROWN
		B = BRICK	Y = YELLOW
		C = CONCRETE	R = RED
			P = PINK

SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 10 2012

ROOM #: 19+20 Use: \_\_\_\_\_

LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling										
Crown Molding										
Wall <u>Upper</u>	G	B	W	A	0.0					
Wall	↓	↓	↓	B	0.2					
Wall	↓	↓	↓	C	0.1					
Wall	↓	↓	↓	D	0.0					
Baseboard / Assoc. Trim										
Floor	P	C	—		0.0					
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	S		0.2					
Casing	↓	↓	↓		0.1					
Jamb	↓	↓	↓		0.0					
Stop	↓	↓	↓		0.0					
Threshold										
<b>DOOR TYPE 2</b>										
Door	G	M	W		0.2					
Casing	G	W	W	A	0.1					
Jamb	G	W	W		0.2					
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	W							
Stop	↓	↓	↓							
Jamb	↓	↓	↓							
Window Well	P	W	W							
Sill	G	W	W							
Sash/Mullion	G	W	W							
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS TIME: 1430

Manufacturer's Block	Block Tested Value: 1.0	1st Reading: <u>1.0</u>	2nd Reading: <u>1.0</u>	3rd Reading: <u>1.0</u>
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading: <u>1.0</u>	2nd Reading: <u>1.0</u>	3rd Reading: <u>1.0</u>
Zero Lead Reference:		1st Reading: <u>0.1</u>	2nd Reading: <u>0.0</u>	3rd Reading: <u>0.1</u>

REMARKS:

LEGEND

CONDITION	SUBSTRATE		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	WP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	CPT = CARPETED	BR = BROWN	
		Y = YELLOW	
		R = RED	
		P = PINK	
		GR = GREEN	
		BR = BROWN	



SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 17 2012

ROOM #: 21 Use: \_\_\_\_\_

LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	W	W		0.1					
Crown Molding										
Wall	G	B	BLU	A	0.6					
Wall				B	0.0					
Wall	↓	↓	↓	C	3.0					LBP
Wall				D	0.1					
Baseboard / Assoc. Trim										
Floor	P	C	BR		0.2					
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	M	GR	C	∞	3.4				LBP
Casing	G	W	S	↓	0.0					
Jamb										
Stop										
Threshold										
<b>DOOR TYPE 2</b>										
Door	G	W	S	B	0.1					
Casing	G	W	BLU	↓	0.3					
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	BLU	D	0.0					
Stop	↓	↓	↓	↓	0.2					
Jamb	↓	↓	↓	↓	0.1					
Window Well	↓	W	W	↓	79.9					LBP
Sill	G	W	BLU	↓	0.2					
Sash/Mullion	G	W	BLU	↓	0.0					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Wall Paper	G	B	P	A	0.2					
				B	0.1					
	↓	↓	↓	C	3.4					LBP
				D	0.0					
Wall Paper	G	B	GR		0.0					

CALIBRATIONS		TIME:	12/17/12		
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	1.0	2nd Reading:	1.0
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	1.0	2nd Reading:	1.0
Zero Lead Reference:		1st Reading:	0.0	2nd Reading:	0.0

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	WP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	CPT = CARPETED	BLK = BLACK	GR = GREEN
		O = OTHER	BR = BROWN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 17 2012  
 ROOM #: 22 Use: \_\_\_\_\_ LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	W	W		0.3					
Crown Molding										
Wall	G	W	W	A	0.0					
Wall	G	W	Y	B	0.2					
Wall	G	W	W	C	0.2					
Wall	G	W	Y	D	0.0					
Baseboard / Assoc. Trim										
Floor	F-P	C	GY		1.5					LOP
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	S	D	0.0					
Casing	G	M	GY		0.2					
Jamb	↓	↓	↓	↓	0.1					
Stop	↓	↓	↓	↓	0.0					
Threshold										
<b>DOOR TYPE 2</b>										
Door	G	M	W	C	0.0					
Casing	↓	↓	↓	↓	0.2					
Jamb	↓	↓	↓	↓	0.3					
Stop	↓	↓	↓	↓	0.3					
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Wall Paper	G	B	GR	A	0.0					
	↓	↓	↓	B	0.1					
	↓	↓	↓	C	0.2					
	↓	↓	↓	D	0.1					

CALIBRATIONS		TIME:	
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:

REMARKS:

LEGEND

CONDITION

G = GOOD (NO VISABLE DAMAGE)  
 F = FAIR (LESS THAN 10% DAMAGE)  
 P = POOR (GREATER THAN 10% DAMAGE)

SUBSTRATE

P = PLASTER  
 SR = SHEETROCK  
 W = WOOD  
 M = METAL  
 CPT = CARPETED  
 B = BRICK  
 C = CONCRETE  
 O = OTHER

WP= WALLPAPER

V = VARNISH  
 S = STAIN  
 BL = BLUE  
 BLK = BLACK

PP= PURPLE

C = CREAM  
 T = TAN  
 GY = GREY  
 GR = GREEN  
 Y = YELLOW  
 R = RED  
 P = PINK  
 BR = BROWN

SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 17 2012

ROOM #: 23 Use: \_\_\_\_\_

LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	M	W		1.3					LBP
Crown Molding	G	M	GR	A	1.4					LBP
Wall	G	B	GR	A	1.5					LBP
Wall				B	1.4					LBP
Wall				C	1.5					LBP
Wall				D	1.6					LBP
Baseboard / Assoc. Trim										
Floor	P	C	GR		1.5					LBP
Radiator/Rad Cover	G	M	Silver		0.0					
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	W	GR	D	0.0					
Casing					0.2					
Jamb					0.1					
Stop					0.3					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	GR	M	0.0					
Stop					0.2					
Jamb					0.1					
Window Well	P	W	W		>99					LBP
Sill	G	W	GR		0.2					
Sash/Mullion	G	W	GR		0.1					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:			
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:	
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:	
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:	

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>	<b>WP= WALLPAPER</b>	<b>PP= PURPLE</b>
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	BLK = BLACK	GR = GREEN
	CPT = CARPETED		BR = BROWN
			Y = YELLOW
			R = RED
			P = PINK

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 17 2012  
 ROOM #: 24 Use: \_\_\_\_\_ LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling										
Crown Molding										
Wall	G	B	CR	A	2.8					LBP
Wall	↓	↓	↓	B	3.0					LBP
Wall	↓	↓	↓	C	3.0					LBP
Wall										
Baseboard / Assoc. Trim										
Floor										
Radiator/Rad Cover										
Shelves										
DOOR TYPE 1										
Door										
Casing										
Jamb										
Stop										
Threshold										
DOOR TYPE 2										
Door										
Casing										
Jamb										
Stop										
Threshold										
WINDOW TYPE 1										
Casing/Apron	G	W	GR	BL	0.0					
Stop	↓	↓	↓	↓	0.1					
Jamb	↓	↓	↓	↓	0.2					
Window Well	↓	↓	↓	↓	79.9					
Sill	G	W	GR	↓	0.1					
Sash/Mullion	G	W	GR	↓	0.0					
WINDOW TYPE 2										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Wall lower	B	B	W	A	3.0					LBP
	P	B	R	B	3.1					LBP
	P	B	R	C	2.9					LBP

CALIBRATIONS		TIME:		
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:

REMARKS:

LEGEND

CONDITION	SUBSTRATE		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	B = BRICK	WP = WALLPAPER
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	C = CONCRETE	V = VARNISH C = CREAM Y = YELLOW
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	O = OTHER	S = STAIN T = TAN R = RED
	M = METAL		BL = BLUE GY = GREY P = PINK
	CPT = CARPETED		BLK = BLACK GR = GREEN BR = BROWN

SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 2012

ROOM #: 25 Use: \_\_\_\_\_

LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	W	W		0.1					
Crown Molding										
Wall	G	B	GR	A	0.2					
Wall	↓	↓	↓	B	0.4					
Wall	↓	↓	↓	C	0.7					
Wall	↓	↓	↓	D	0.8					
Baseboard / Assoc. Trim										
Floor	P	C	GY		1.3					LBP
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	M	W	A	0.0					
Casing	↓	↓	↓	↓	0.2					
Jamb	↓	↓	↓	↓	0.1					
Stop	↓	↓	↓	↓	0.0					
Threshold										
<b>DOOR TYPE 2</b>										
Door	G	W	GR	C	0.0					
Casing	↓	↓	↓	↓	0.2					
Jamb	↓	↓	↓	↓	0.1					
Stop	↓	↓	↓	↓	0.0					
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	BR	W	A	3.0					LBP
Stop	↓	↓	↓	B	3.1					LBP
Jamb	↓	↓	↓	C	3.0					LBP
Window Well	↓	↓	↓	D	3.2					LBP
Sill										
Sash/Mullion										
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
stair riser	G	W	W	A	1.1					LBP
floor	P	W	-	↓	0.0					
ceiling	G	W	GR	↓	0.2					
ceiling	G	W	GR	↓	0.1					

CALIBRATIONS		TIME:	
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>	<b>WP= WALLPAPER</b>	<b>PP= PURPLE</b>
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	BLK = BLACK	GR = GREEN
	CPT = CARPETED	O = OTHER	BR = BROWN

SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 2012

ROOM #: 26 Use: \_\_\_\_\_

LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling										
Crown Molding										
Wall	G	B	W	A	0.5					
Wall	G	B	W	B	0.0					
Wall	G	<del>BC</del>	<del>W</del>							
Wall	G	C	W	D	0.3					
Baseboard / Assoc. Trim										
Floor	P	C	BL		0.3					
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	M	GY	C	0.0					
Casing					0.2					
Jamb	↓	↓	↓	↓	0.1					
Stop	↓	↓	↓	↓	0.2					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	BL	W	W	BL	0.0					
Stop	BL	W	W	↓	0.2					
Jamb	BL	W	W	↓	0.1					
Window Well	BL	W	W	↓	0.3					CRP
Sill	BL	W	W	↓	0.0					
Sash/Mullion										
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										

CALIBRATIONS		TIME:	
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>	<b>WP= WALLPAPER</b>	<b>PP= PURPLE</b>
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	BLK = BLACK	GR = GREEN
	O = OTHER		BR = BROWN
	CPT = CARPETED		



SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 17 2012

ROOM #: 28 + 21 Use: \_\_\_\_\_

LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling										
Crown Molding										
Wall	G	C	W	A	0.0					
Wall	R P	B	W	B	0.2					
Wall	F	B	W	C	0.3					
Wall	R P	B	GR	D	0.1					
Baseboard / Assoc. Trim										
Floor										
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door	G	WM	GY	B	0.0					
Casing	G	W	GY	↓	0.2					
Jamb	G	W	W	↓	0.1					
Stop	G	W	W	↓	0.0					
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	W	BR	0.0					
Stop	G	W	W	↓	0.2					
Jamb	G	W	W	↓	0.1					
Window Well	G	W	W	↓	0.9					LBP
Sill	G	W	W	↓	0.2					
Sash/Mullion	G	W	W	↓	0.2					
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Wall upper	G	B	GR	C	0.0					
Wall lower	G	B	GR	C	0.2					
W	P	W	S	A	0.1					

CALIBRATIONS		TIME:		
Manufacturer's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:

REMARKS:

LEGEND

CONDITION

G = GOOD (NO VISABLE DAMAGE)  
 F = FAIR (LESS THAN 10% DAMAGE)  
 P = POOR (GREATER THAN 10% DAMAGE)

SUBSTRATE

P = PLASTER  
 SR = SHEETROCK  
 W = WOOD  
 M = METAL  
 CPT = CARPETED  
 B = BRICK  
 C = CONCRETE  
 O = OTHER

WP= WALLPAPER

V = VARNISH  
 S = STAIN  
 BL = BLUE  
 BLK = BLACK  
 C = CREAM  
 T = TAN  
 GR = GREEN

PP= PURPLE

Y = YELLOW  
 R = RED  
 P = PINK  
 BR = BROWN

SITE St. Johnsbury Armory  
 PROJECT ADDRESS St. Johnsbury, Vermont  
 INSPECTOR Harland Miller  
 DATE December 17 2012  
 ROOM #: 30-37 Use: \_\_\_\_\_ LEVEL: BA

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Ceiling	G	M	W		0.2					
Crown Molding										
Wall <u>paper</u>	G	B	GR	A	0.1					
Wall	↓	↓	↓	B	0.2					
Wall	↓	↓	↓	C	0.2					
Wall	↓	↓	↓	D	0.2					
Baseboard / Assoc. Trim										
Floor	P	C	GY		0.2					
Radiator/Rad Cover										
Shelves										
<b>DOOR TYPE 1</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>DOOR TYPE 2</b>										
Door										
Casing										
Jamb										
Stop										
Threshold										
<b>WINDOW TYPE 1</b>										
Casing/Apron	G	W	T	D6	0.2					
Stop										
Jamb										
Window Well	G	W	T	↓	3.0					LBP
Sill	G	W	T	↓	2.1					
Sash/Mullion										
<b>WINDOW TYPE 2</b>										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Wall lower	G	B	GR	A	0.2					
↓	↓	↓	↓	B	0.9					
↓	↓	↓	↓	C	0.1					
↓	↓	↓	↓	D	0.2					

CALIBRATIONS		TIME:			
Manufacture's Block	Block Tested Value: 1.0	1st Reading:	2nd Reading:	3rd Reading:	
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	2nd Reading:	3rd Reading:	
Zero Lead Reference:		1st Reading:	2nd Reading:	3rd Reading:	

REMARKS:

LEGEND			
<b>CONDITION</b>	<b>SUBSTRATE</b>		
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	WP = WALLPAPER	PP = PURPLE
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	V = VARNISH	C = CREAM
P = POOR (GREATER THAN 10% DAMAGE)	W = WOOD	S = STAIN	T = TAN
	M = METAL	BL = BLUE	GY = GREY
	CPT = CARPETED	BLK = BLACK	GR = GREEN
			BR = BROWN
			Y = YELLOW
			R = RED
			P = PINK

SITE St. Johnsbury Armory

PROJECT ADDRESS St. Johnsbury, Vermont

INSPECTOR Harland Miller

DATE December 17 2012

ROOM #: Exterior LEVEL: \_\_\_\_\_

1	2	3	4	5	6	7	8	9	10	11
COMPONENT	Condition	Substrate	Color	SIDE	Result mg/cm2	Second Result	Like Components	Paint Chip #	Paint Chip Result	Final Classification
Siding	G	B	-	A	0.0					
Siding	↓	↓	↓	B	0.2					
Siding	↓	↓	↓	C	0.1					
Siding	↓	↓	↓	D	0.0					
Cornerboards										
Facia rear	P	W	W		Assume					
Soffit rear	P	W	W		Assume					
Foundation										
Skirtboard										
Stair risers,tread,stringer										
DOOR TYPE 1										
Door	G	W	GR	D	0.0					
Casing	G	W	GR	D	0.2					
Jamb										
Stop										
Header										
DOOR TYPE 2										
Door	G	W	GR	I	0.0					
Casing	G	W	W	I	0.2					
Jamb										
Stop										
Header										
WINDOW TYPE 1										
Casing/Apron	F	W	W		79.9		All			LBP
Stop	↓	↓	↓		79.9		↓			LBP
Jamb	↓	↓	↓		79.9		↓			LBP
Window Well	F-P	W	W		79.9		↓			LBP
Sill										
Sash/Mullion	F	W	GR		3.0					LBP
WINDOW TYPE 2										
Casing/Apron										
Stop										
Jamb										
Window Well										
Sill										
Sash/Mullion										
Side Panel	G	W	W	D	3.0					LBP

CALIBRATIONS TIME: 12/27 1300

Manufacture's Block	Block Tested Value: 1.0	1st Reading:	1.0	2nd Reading:	1.0	3rd Reading:	1.0
NIST Block (30 sec.)	NIST Value: 1.02	1st Reading:	1.0	2nd Reading:	1.0	3rd Reading:	1.0
Zero Lead Reference:		1st Reading:	-0.2	2nd Reading:	-0.1	3rd Reading:	0.0

REMARKS:

LEGEND

<b>CONDITION</b>	<b>SUBSTRATE</b>	<b>WP= WALLPAPER</b>	<b>PP=PURPLE</b>
G = GOOD (NO VISABLE DAMAGE)	P = PLASTER	V = VARNISH	C = CREAM
F = FAIR (LESS THAN 10% DAMAGE)	SR = SHEETROCK	S = STAIN	T = TAN
P = POOR (GREATER THAN 10% DAMA	W = WOOD	BL = BLUE	GY = GREY
	M = METAL	ELK = BLACK	GR = GREEN
	CPT = CARPETED	O = OTHER	BR = BROWN

## XRF Protocol

## XRF Protocol

LBP testing was performed at the above referenced site. The testing was performed in general conformance to the United States Department of Housing and Urban Development's (HUD) 1997 Revised Chapter 7 of the Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (HUD guidelines), dated June, 1995. HUD guidelines define the term lead based paint as paint or other surface coatings that contain lead equal to or greater than 1.0 mg/cm<sup>2</sup> (by XRF) or 0.5 % by weight (laboratory paint chip analysis).

ATC conducted a LBP survey of accessible interior and exterior surfaces of the main residence. Please refer to the attached Sample Location Diagrams for a diagram of the building complete with room numbers. For a description of the XRF instrument and procedure, see **Appendix B**: "XRF Protocol". **Appendix C** contains appropriate Lead Certifications.

Areas selected for testing were designated as "room equivalents." Pursuant to the HUD Guidelines, a room equivalent is an identifiable part of a residence, such as a room, a house exterior side or an exterior area. Within each room equivalent, "testing combinations" were identified and tested. A testing combination is characterized by a unique combination of room equivalent, building component types, and substrate (for example: all like painted doors with wood substrate within the same room). Pursuant to the 1997 Revision of Chapter 7 HUD Guidelines, one reading was completed for each testing combination except for walls, where one reading was taken for each wall in the room. Testing combinations were tested by using a LPA-1, serial # 1355, X-Ray Fluorescence Analyzer (XRF).

XRF field screening results are noted on the field sheets included within this report under **Appendix A**. Column one of the field sheets contains the type of component tested, the second column contains the condition of the painted surface, either "G" (good), "F" (fair) or "P" (poor). The third column contains the type of substrate of the component (such as wood, sheet rock, etc.). The fourth column contains the color of the painted surface at the time of the testing. Column five contains the side of the room for which the component was tested, indicated as side A, B, C, or D. As depicted on the Diagram(s) included with this report, side A is the side of the room facing the street, and moving in a clockwise direction each additional side perpendicular to the previous side (i.e. angled walls are not assigned a letter) is given the next consecutive letter. Column six contains the XRF result for that reading, column seven contains the XRF result for that reading if the testing was repeated. Column eight includes other *like components* within the room. *Like components* are similar components in the same room equivalent that should be considered to have identical paint content. If a paint chip sample is collected (due to an inconclusive XRF result or odd shaped component) then column nine contains the paint chip sample number and column ten indicates the corresponding laboratory result.

**The abbreviation "LBP" will be entered in column eleven for any component and like components that are identified as lead-based paint.**

The bottom of each field sheet also contains an area for remarks provided by the inspector which detail specific conditions noted for that particular area tested.

The LPA-1 Lead Paint Analyzer is a complete lead paint analysis system which quickly, accurately, and non-destructively measures the concentration of LBP on surfaces. The LPA-1 relies on the measurement of the K-shell X-rays to determine the amount of lead present in the painted surface. K-shell X-rays can penetrate many layers of paint and allow a good measurement of the lead content of paint to be made without being significantly affected by the thickness or number of layers of paint on the surface of the sample.

The LPA-1 has the ability to analyze and compute corrections for the differences in the energy spectrums relating to different substrates. This analysis of the energy spectrum means that the lead paint reading

displayed on the instrument already accounts for any substrate effects and no correction is required by the operator. The LPA-1's field of view is limited to a depth of 3/8", deep enough to handle virtually all painted surfaces, but not prone to detect lead objects located behind the surface.

There are two measurement modes of operation in the LPA-1 analyzer namely the "Standard Mode" and the "Quick Mode". In the "Standard" mode, the operator selects a fixed measurement time which remains constant irrespective of the lead signal. In the "Quick" mode, the analyzer automatically adjusts the measurement time to be the least time that is needed to make a definitive measurement with a 95% confidence level (2 sigma). The LPA-1 analyzer will finish a measurement once the 2 sigma confidence level is achieved and the data is statistically meaningful. This time period for conclusive measurements is typically between 1 to 5 seconds, but can extend to a measurement of 60 seconds depending on the action level for abatement. ATC utilized the LPA-1 in the "Quick" mode for the testing performed at this unit. The highest level of LBP reported by the LPA-1 using the "Quick" mode is a result of > 9.9 mg/cm<sup>2</sup> (greater than 9.9 mg/cm<sup>2</sup>). This result indicates LBP significantly over the HUD definition of 1.0 mg/cm<sup>2</sup>.

A "validation test" was performed to ensure that the instrument was operating properly. The validation test was performed on a calibration test block supplied by the manufacturer, as well as the National Institute for Standards and Testing (NIST) 1.02 mg/cm<sup>2</sup> test film to determine if the instrument measured the lead content consistently on a day to day basis. A series of three standard measurements consisting of 60 seconds per measurement were taken on the test blocks. The individual readings were recorded and compared to the factory test data provided with the instrument. Please find validation test results on the enclosed field sheets.

## Performance Characteristic Sheet

## Performance Characteristic Sheet

EFFECTIVE DATE: October 25, 2006

EDITION NO.: 5

### MANUFACTURER AND MODEL:

Make: *Radiation Monitoring Devices*Model: *LPA-1*Source: *<sup>57</sup>Co*

Note: This sheet supersedes all previous sheets for the XRF instrument of the make, model, and source shown above for instruments sold or serviced after June 26, 1995. For other instruments, see prior editions.

### FIELD OPERATION GUIDANCE

#### OPERATING PARAMETERS:

Quick mode or 30-second equivalent standard (Time Corrected) mode readings.

#### XRF CALIBRATION CHECK LIMITS:

0.7 to 1.3 mg/cm <sup>2</sup> (inclusive)
---

#### SUBSTRATE CORRECTION:

For XRF results below 4.0 mg/cm<sup>2</sup>, substrate correction is recommended for:

Metal using 30-second equivalent standard (Time Corrected) mode readings.  
None using quick mode readings.

Substrate correction is not needed for:

Brick, Concrete, Drywall, Plaster, and Wood using 30-second equivalent standard (Time Corrected) mode readings  
Brick, Concrete, Drywall, Metal, Plaster, and Wood using quick mode readings

#### THRESHOLDS:

30-SECOND EQUIVALENT STANDARD MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results corrected for substrate bias on metal substrate only	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

QUICK MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Readings not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

## BACKGROUND INFORMATION

### EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted on approximately 150 test locations in July 1995. The instrument that performed testing in September had a new source installed in June 1995 with 12 mCi initial strength.

### OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm<sup>2</sup> for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.02 mg/cm<sup>2</sup> at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm<sup>2</sup>. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm<sup>2</sup> NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1^{\text{st}} + 2^{\text{nd}} + 3^{\text{rd}} + 4^{\text{th}} + 5^{\text{th}} + 6^{\text{th}} \text{ Reading}) / 6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use either the Quick Mode or 30-second equivalent standard (Time Corrected) Mode readings.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

#### **BIAS AND PRECISION:**

Do not use these bias and precision data to correct for substrate bias. These bias and precision data were computed without substrate correction from samples with reported laboratory results less than 4.0 mg/cm<sup>2</sup> lead. The data which were used to determine the bias and precision estimates given in the table below have the following properties. During the July 1995 testing, there were 15 test locations with a laboratory-reported result equal to or greater than 4.0 mg/cm<sup>2</sup> lead. Of these, one 30-second standard mode reading was less than 1.0 mg/cm<sup>2</sup> and none of the quick mode readings were less than 1.0 mg/cm<sup>2</sup>. The instrument that tested in July is representative of instruments sold or serviced after June 26, 1995. These data are for illustrative purposes only. Actual bias must be determined on the site. Results provided above already account for bias and precision. Bias and precision ranges are provided to show the variability found between machines of the same model.

30-SECOND STANDARD MODE READING MEASURED AT	SUBSTRATE	BIAS (mg/cm <sup>2</sup> )	PRECISION* (mg/cm <sup>2</sup> )
0.0 mg/cm <sup>2</sup>	Brick	0.0	0.1
	Concrete	0.0	0.1
	Drywall	0.1	0.1
	Metal	0.3	0.1
	Plaster	0.1	0.1
	Wood	0.0	0.1
0.5 mg/cm <sup>2</sup>	Brick	0.0	0.2
	Concrete	0.0	0.2
	Drywall	0.0	0.2
	Metal	0.2	0.2
	Plaster	0.0	0.2
	Wood	0.0	0.2
1.0 mg/cm <sup>2</sup>	Brick	0.0	0.3
	Concrete	0.0	0.3
	Drywall	0.0	0.3
	Metal	0.2	0.3
	Plaster	0.0	0.3
	Wood	0.0	0.3
2.0 mg/cm <sup>2</sup>	Brick	-0.1	0.4
	Concrete	-0.1	0.4
	Drywall	-0.1	0.4
	Metal	0.1	0.4
	Plaster	-0.1	0.4
	Wood	-0.1	0.4

\*Precision at 1 standard deviation.

#### CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than the upper boundary of the Inconclusive range, and negative if they are less than the lower boundary of the inconclusive range, or inconclusive if in between. The inconclusive range includes both its upper and lower bounds. Earlier editions of this *XRF Performance Characteristics Sheet* did not include both bounds of the inconclusive range as "inconclusive." While this edition of the Performance Characteristics Sheet uses a different system, the specific XRF readings that are considered positive, negative, or inconclusive for a given XRF model and substrate remain unchanged, so previous inspection results are not affected.

#### DOCUMENTATION:

An EPA document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD. A HUD document titled *A Nonparametric Method for Estimating the 5th and 95th Percentile Curves of Variable-Time XRF Readings Based on Monotone Regression* provides supplemental information on the methodology for variable-time XRF instruments. A copy of this document can be obtained from the HUD lead web site, [www.hud.gov/offices/lead](http://www.hud.gov/offices/lead).

This XRF Performance Characteristic Sheet was developed by QuanTech, Inc., under a contract from the U.S. Department of Housing and Urban Development (HUD). HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

## XRF QA/QC Results

December 2012

Testing Combination	Initial Result mg/cm2	Retest Result mg/cm2	Average	Square the Average
Door Type 1 Door	-0.3	0.0	-0.15	0.0225
Door Type 1 Casing	0.1	0.1	0.1	0.01
Door Type 1 Jamb	0.0	0.2	0.1	0.01
Door Type 1 Stop	0.2	0.1	0.15	0.0225
Window Casing	0.0	0.1	0.05	0.0025
Window Stop	0.2	0.0	0.1	0.01
Window Jamb	0.1	-0.2	-0.05	0.0025
Window Well	0.3	0.0	0.15	0.0225
Window Sill	0.1	0.1	0.1	0.01
Window Sash	0.3	0.0	0.15	0.0225

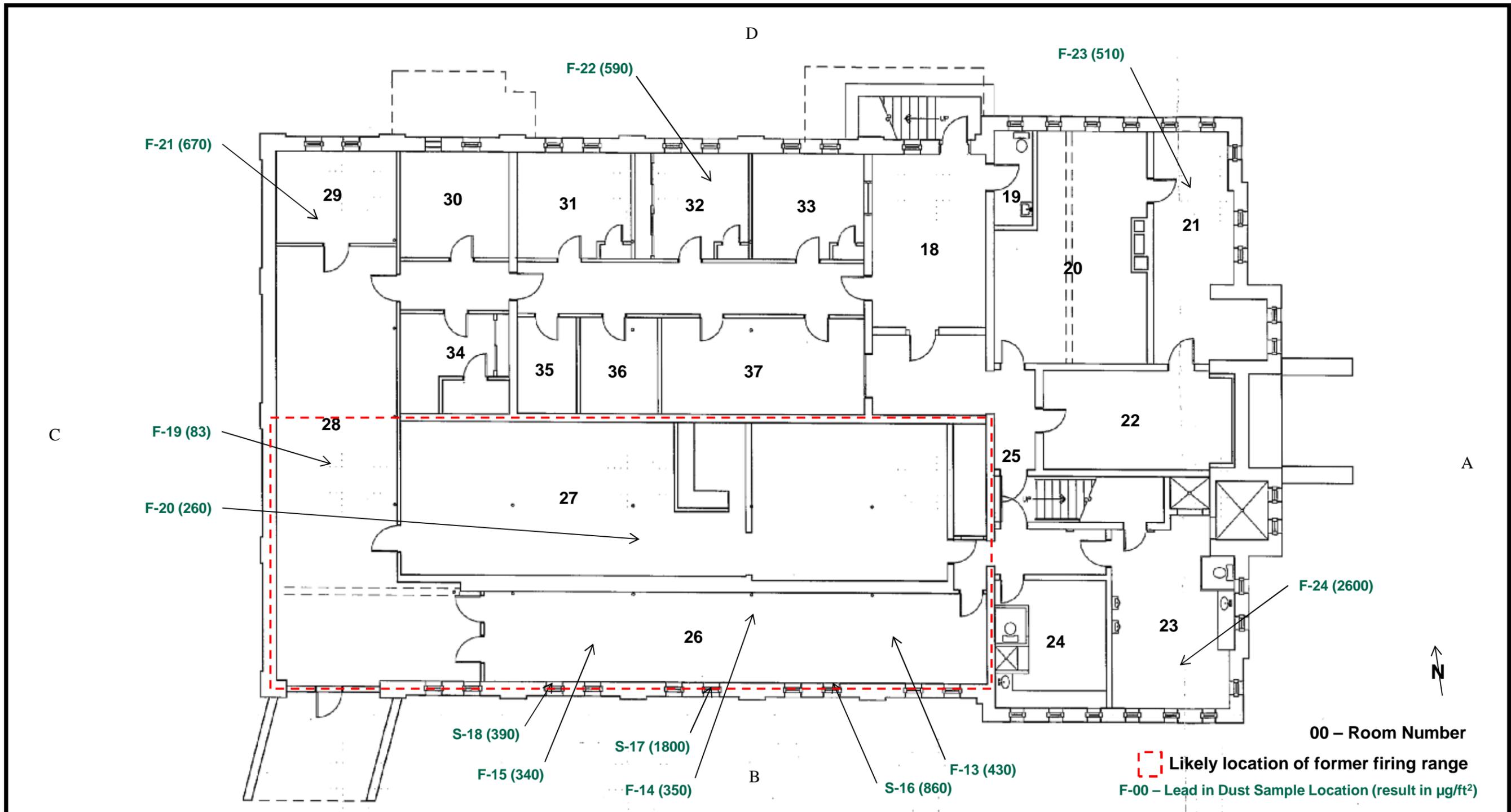
add squared averages	0.135	(C)
C x 0.0072	0.000972	(D)
D + 0.032	0.032972	(E)
square root of E	0.181581937	(F)
F x 1.645	0.2987	Retest Tolerance Limit
average of Initial	0.10	
average of retest	0.04	
Absolute Difference	0.06	

**Absolute Difference < Retest Tolerance?      Pass**

## **Appendix D**

Lead in Dust Sample Location Diagram  
Lead in Dust Laboratory Report

## Lead in Dust Sample Location Diagram



**SAMPLE LOCATION DIAGRAM - Lead**

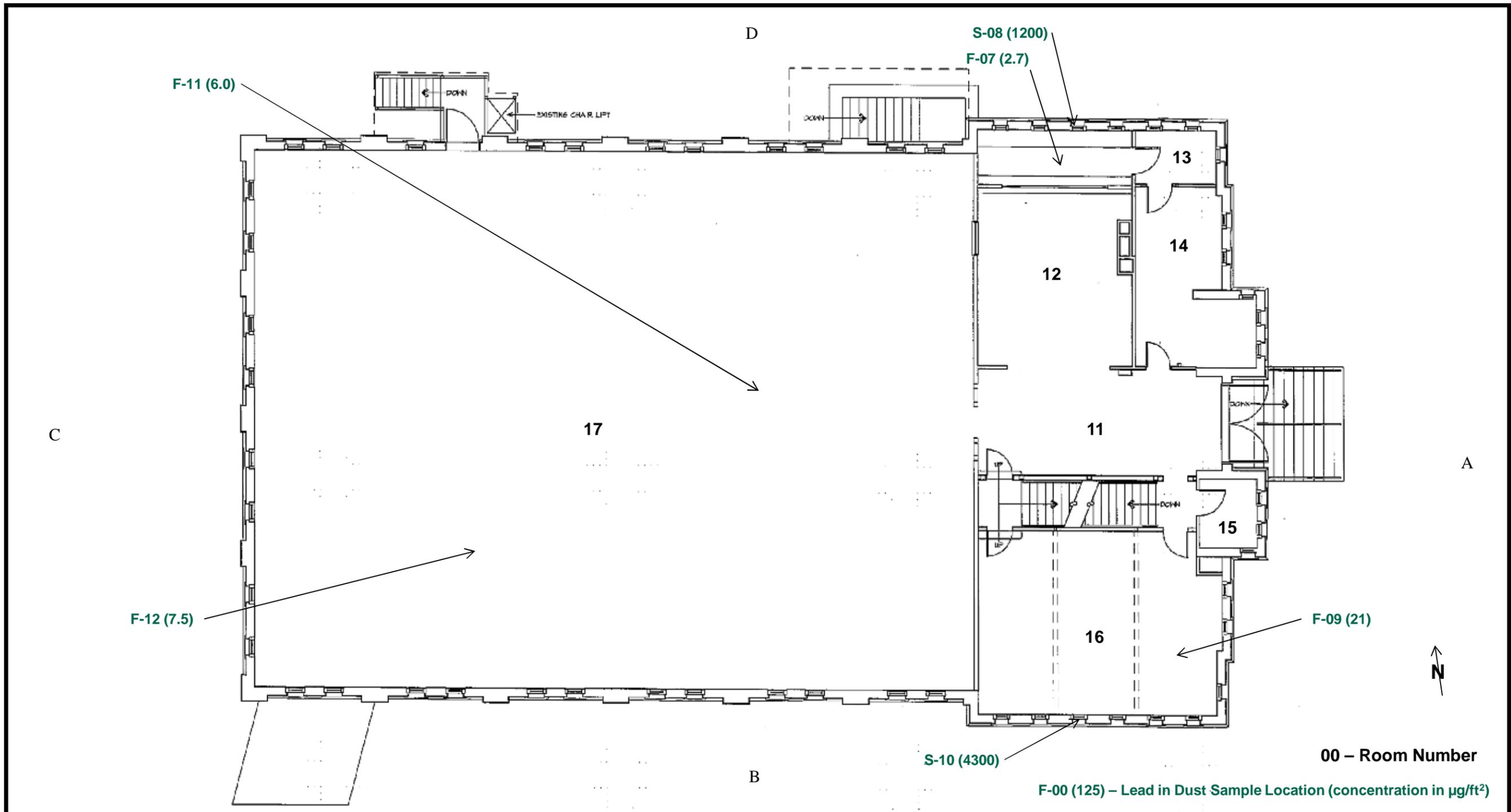
Address: St. Johnsbury Armory - Basement  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM - Lead**

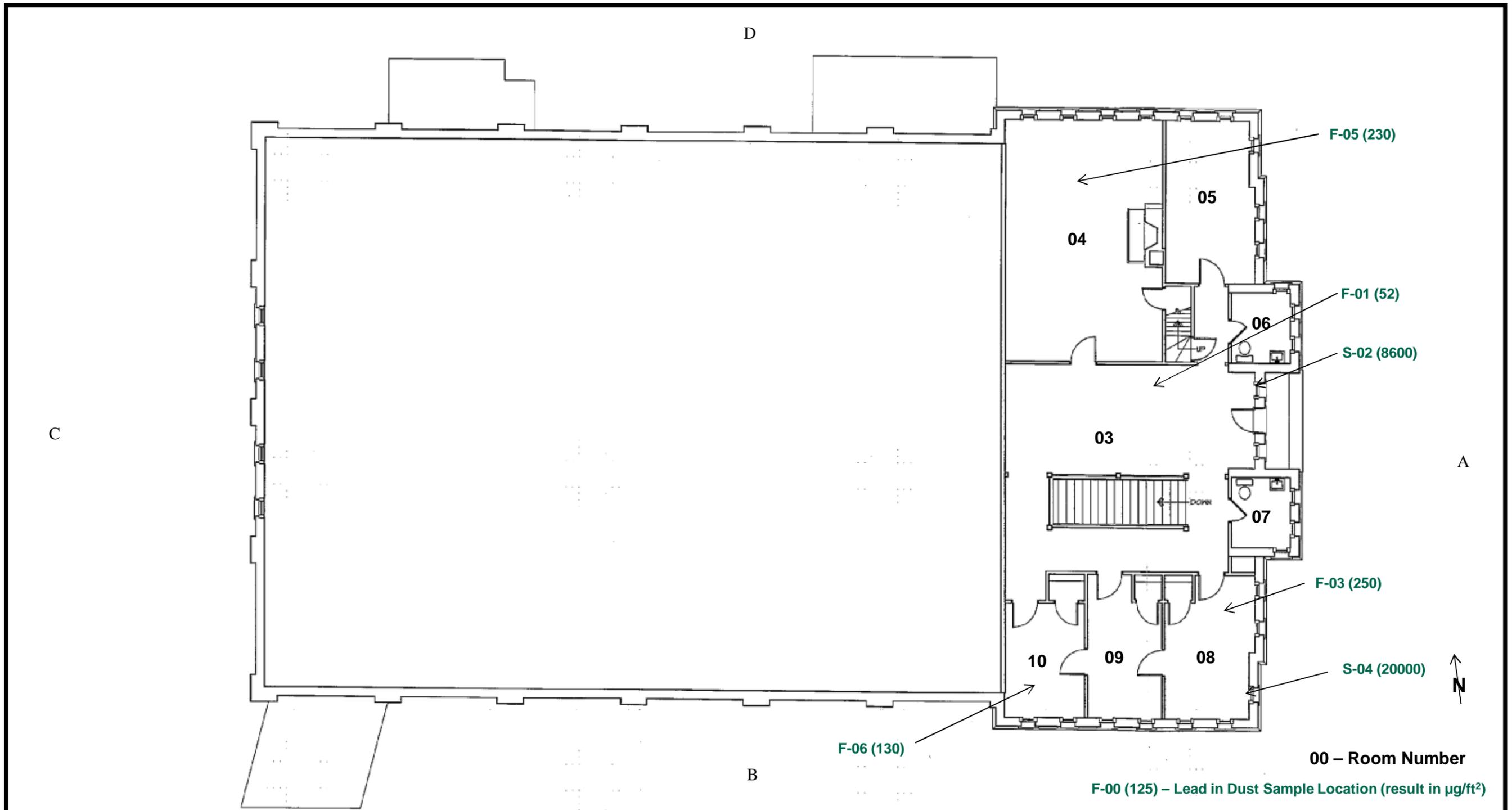
Address: St. Johnsbury Armory – 1<sup>st</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM - Lead**

Address: St. Johnsbury Armory – 2<sup>nd</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale

## Lead in Dust Laboratory Report



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 868-4571 Email: [jsmith@emsl.com](mailto:jsmith@emsl.com)

---

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

12/31/2012

**Williston, VT 05495**

Phone: (802) 862-1980

Fax: (802) 862-1405

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 12/21/2012. The results are tabulated on the attached data pages for the following client designated project:

**63.35078.0013**

The reference number for these samples is EMSL Order #011205745. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Reviewed and Approved By:

---

Julie Smith - Laboratory Director



The test results contained within this report meet the requirements of NELAC and/or the specific certification program that is applicable, unless otherwise noted.  
NELAP Certifications: NJ 03036, NY 10896, PA 68-00367

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205745  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/21/12 2:30 PM  
 Collected: 12/17/2012

**Williston, VT 05495**

Project: 63.35078.0013

### Analytical Results

Client Sample Description		Collected:			Lab ID:			
F-01 Rm 03 Floor		12/17/2012			0001			
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	52	1.0	µg/ft²	12/26/2012	JS	12/27/2012	BE
S-02 Rm 03 Sill		12/17/2012			0002			
6010B	Lead	8600	140	µg/ft²	12/26/2012	JS	12/31/2012	BE
F-03 Rm 08 Floor		12/17/2012			0003			
6010B	Lead	250	5.0	µg/ft²	12/26/2012	JS	12/31/2012	BE
S-04 Rm 08 Sill		12/17/2012			0004			
6010B	Lead	20000	270	µg/ft²	12/26/2012	JS	12/31/2012	BE
F-05 Rm 04 Floor		12/17/2012			0005			
6010B	Lead	230	5.0	µg/ft²	12/26/2012	JS	12/31/2012	BE
F-06 Rm 10 Floor		12/17/2012			0006			
6010B	Lead	130	2.0	µg/ft²	12/26/2012	JS	12/31/2012	BE
F-07 Rm 12 Floor		12/17/2012			0007			
6010B	Lead	2.7	1.0	µg/ft²	12/26/2012	JS	12/27/2012	BE

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205745  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**  
  
**Williston, VT 05495**  
 Project: 63.35078.0013

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/21/12 2:30 PM  
 Collected: 12/17/2012

**Analytical Results**

Client Sample Description		S-08	Collected:		12/17/2012	Lab ID:		0008
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	1200	27	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE
Client Sample Description		F-09	Collected:		12/17/2012	Lab ID:		0009
		Rm 16 Floor						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	21	1.0	µg/ft <sup>2</sup>	12/26/2012	JS	12/27/2012	BE
Client Sample Description		S-10	Collected:		12/17/2012	Lab ID:		0010
		Rm 16 Sill						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	4300	69	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE
Client Sample Description		F-11	Collected:		12/17/2012	Lab ID:		0011
		Rm 17 North Floor						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	6.0	1.0	µg/ft <sup>2</sup>	12/26/2012	JS	12/27/2012	BE
Client Sample Description		F-12	Collected:		12/17/2012	Lab ID:		0012
		Rm 17 South Floor						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	7.5	1.0	µg/ft <sup>2</sup>	12/26/2012	JS	12/27/2012	BE
Client Sample Description		F-13	Collected:		12/17/2012	Lab ID:		0013
		Rm 26 East Floor						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	430	10	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE
Client Sample Description		F-14	Collected:		12/17/2012	Lab ID:		0014
		Rm 26 Center Floor						
Method	Parameter	Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
6010B	Lead	350	5.0	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205745  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**  
  
**Williston, VT 05495**  
 Project: 63.35078.0013

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/21/12 2:30 PM  
 Collected: 12/17/2012

**Analytical Results**

Client Sample Description		Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
F-15 Rm 26 West Floor		340	5.0	µg/ft²	12/26/2012	JS	12/31/2012	BE
Collected: 12/17/2012				Lab ID: 0015				
S-16 Rm 26 East Sill		860	11	µg/ft²	12/26/2012	JS	12/31/2012	BE
Collected: 12/17/2012				Lab ID: 0016				
S-17 Rm 26 Center Sill		1800	27	µg/ft²	12/26/2012	JS	12/31/2012	BE
Collected: 12/17/2012				Lab ID: 0017				
S-18 Rm 26 West Sill		390	11	µg/ft²	12/26/2012	JS	12/31/2012	BE
Collected: 12/17/2012				Lab ID: 0018				
F-19 Rm 28 Floor		83	1.0	µg/ft²			12/27/2012	BE
Collected: 12/17/2012				Lab ID: 0019				
F-20 Rm 27 Floor		260	5.0	µg/ft²	12/26/2012	JS	12/31/2012	BE
Collected: 12/17/2012				Lab ID: 0020				
F-21 Rm 29 Floor		670	10	µg/ft²	12/26/2012	JS	12/31/2012	BE
Collected: 12/17/2012				Lab ID: 0021				

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (856) 303-2500 / (856) 858-4571  
<http://www.emsl.com> [jsmith@emsl.com](mailto:jsmith@emsl.com)

EMSL Order: 011205745  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/21/12 2:30 PM  
 Collected: 12/17/2012

**Williston, VT 05495**

Project: 63.35078.0013

**Analytical Results**

Client Sample Description		Result	RL	Units	Prep Date	Analyst	Analysis Date	Analyst
F-22 Rm 32 Floor		590	10	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE
F-23 Rm 21 Floor		510	10	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE
F-24 Rm 23 Floor		2600	50	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE
F-25 Rm 40 Floor		ND	1.0	µg/ft <sup>2</sup>			12/27/2012	BE
F-26 Rm 41 Floor		180	4.0	µg/ft <sup>2</sup>	12/26/2012	JS	12/31/2012	BE

**Definltions:**

ND - Indicates that the analyte was not detected at the reporting limit  
 RL - Reporting Limit



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRADING

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

01205745

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (856) 303-2533  
FAX: (856) 786-5974

Company: <u>Cardno ATC</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>if Bill to is Different note instructions in Comments**</small>	
Street: <u>171 Commerce St</u>		Third Party Billing requires written authorization from third party	
City: <u>Williston</u>	State/Province: <u>VT</u>	Zip/Postal Code:	Country:
Report To (Name): <u>Harland Miller</u>		Telephone #:	
Email Address: <u>Harland.Miller@Cardno.com</u>		Fax #:	Purchase Order:
Project Name/Number: <u>BS. 35078.0013</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: <u>Vermont</u>		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

### Turnaround Time (TAT) Options\* - Please Check

3 Hour  
 6 Hour  
 24 Hour  
 48 Hour  
 72 Hour  
 96 Hour  
 1 Week  
 2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm <sup>2</sup> <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
<del>AT</del> EMSL Sol 001 Revision 7 2/13/12	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe*      ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water    Unpreserved <input type="checkbox"/> Preserved with HNO <sub>3</sub> pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				

Name of Sampler: H. Miller      Signature of Sampler: [Signature]

Sample #	Location	Volume/Area	Date/Time Sampled
	<u>SEE ATTACHED</u>		<u>2012 DEC 20 4:26:58 PM</u> <u>RECEIVED</u> <u>EMSL</u> <u>CINNAMINSON, NJ</u>

Client Sample #'s: P01 - P26      Total # of Samples: 26

Relinquished (Client): [Signature]      Date: 12/19/12      Time:

Received (Lab): Shawn Albert      Date: 12/21/12      Time: 2:30pm

Comments:

- must called due to method being used (EMSL Sol 001 Revision 7 or Pb-FLAA)
- called. Eric picked up. gave me Harland Miller's number 1:54pm 12/21/12
- called Harland Miller's number. He answered but said he will call back to give type of method. He was not sure of method. 1:57pm 12/21/12
- Harland Miller called back. We decided to get ICP-AES method, not Pb-FLAA (lead contact dust) 2:03pm 12/21/12



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

### LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

01205745

63.35678.0013

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 303-2533  
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Room	Location	Volume/Area inches	Date/Time Sampled
F-01	03	Floor	12"x12"	12/17/12
S-02	03	Sill	3 1/2 x 15	
F-03	08	Floor	12 x 12	
S-04	08	Sill	3 1/2 x 15	
F-05	04	Floor	12 x 12	
F-06	10	Floor	12 x 12	
F-07	12	Floor	12 x 12	
S-08	12	Sill	3 1/2 x 15	
F-09	16	Floor	12 x 12	
S-10	16	Sill	3 1/2 x 15	
F-11	17 North	Floor	12 x 12	
F-12	17 South	Floor	12 x 12	
F-13	26 East	Floor	12 x 12	
F-14	↓	Center	↓	
F-15	↓	West	↓	
S-16	26 East	Sill	3 1/2 x 6 x 22	
S-17	↓	Center	↓	
S-18	↓	West	↓	

RECEIVED  
EMSL  
CINNAMINSON, NJ  
2012 DEC 20 A 10:58

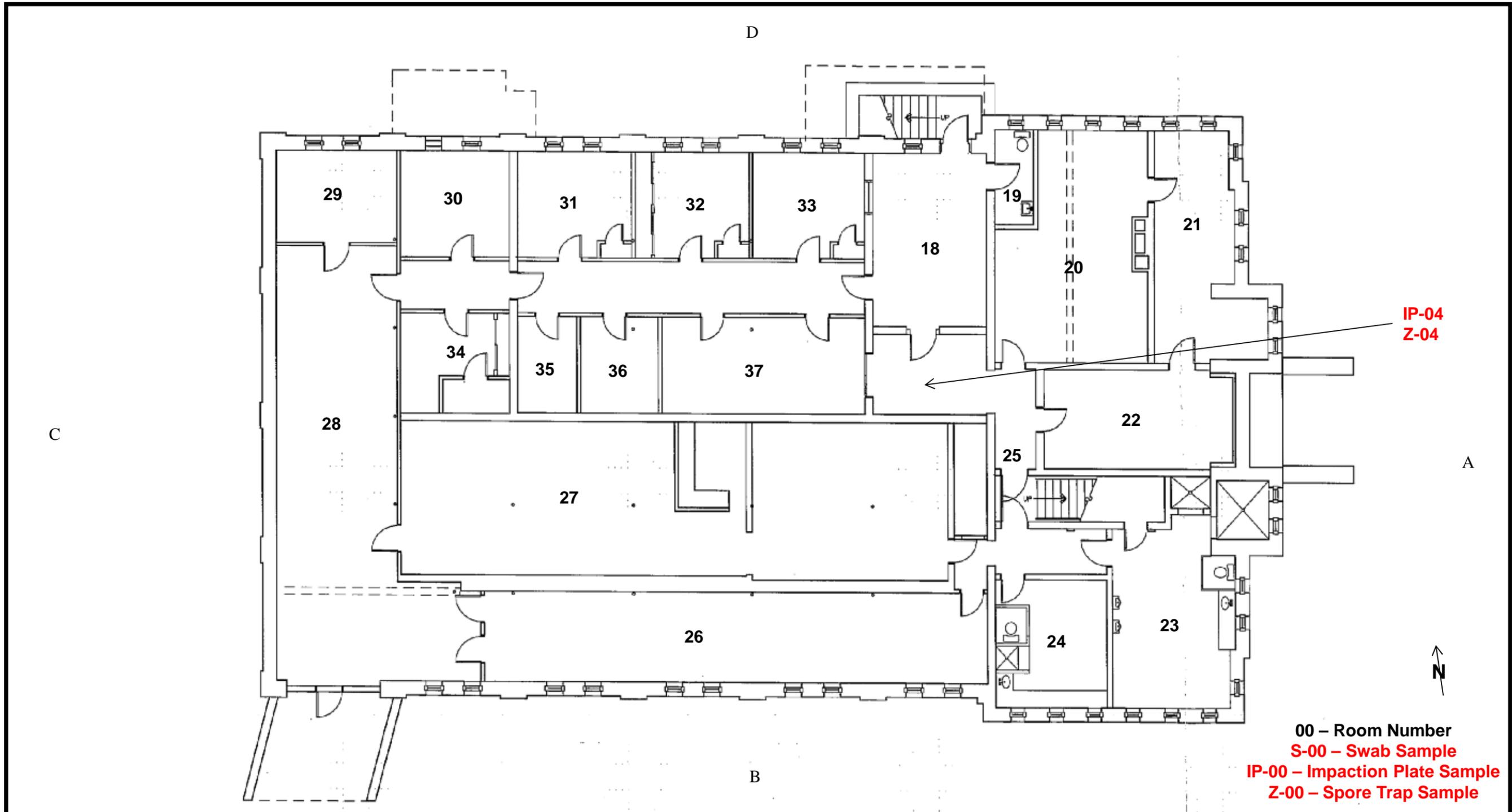
Comments/Special Instructions:



## **Appendix E**

Indoor Air Quality Sample Location Diagram  
Indoor Air Quality Laboratory Report

## Indoor Air Quality Sample Location Diagram



00 – Room Number  
 S-00 – Swab Sample  
 IP-00 – Impaction Plate Sample  
 Z-00 – Spore Trap Sample

**SAMPLE LOCATION DIAGRAM - IAQ**

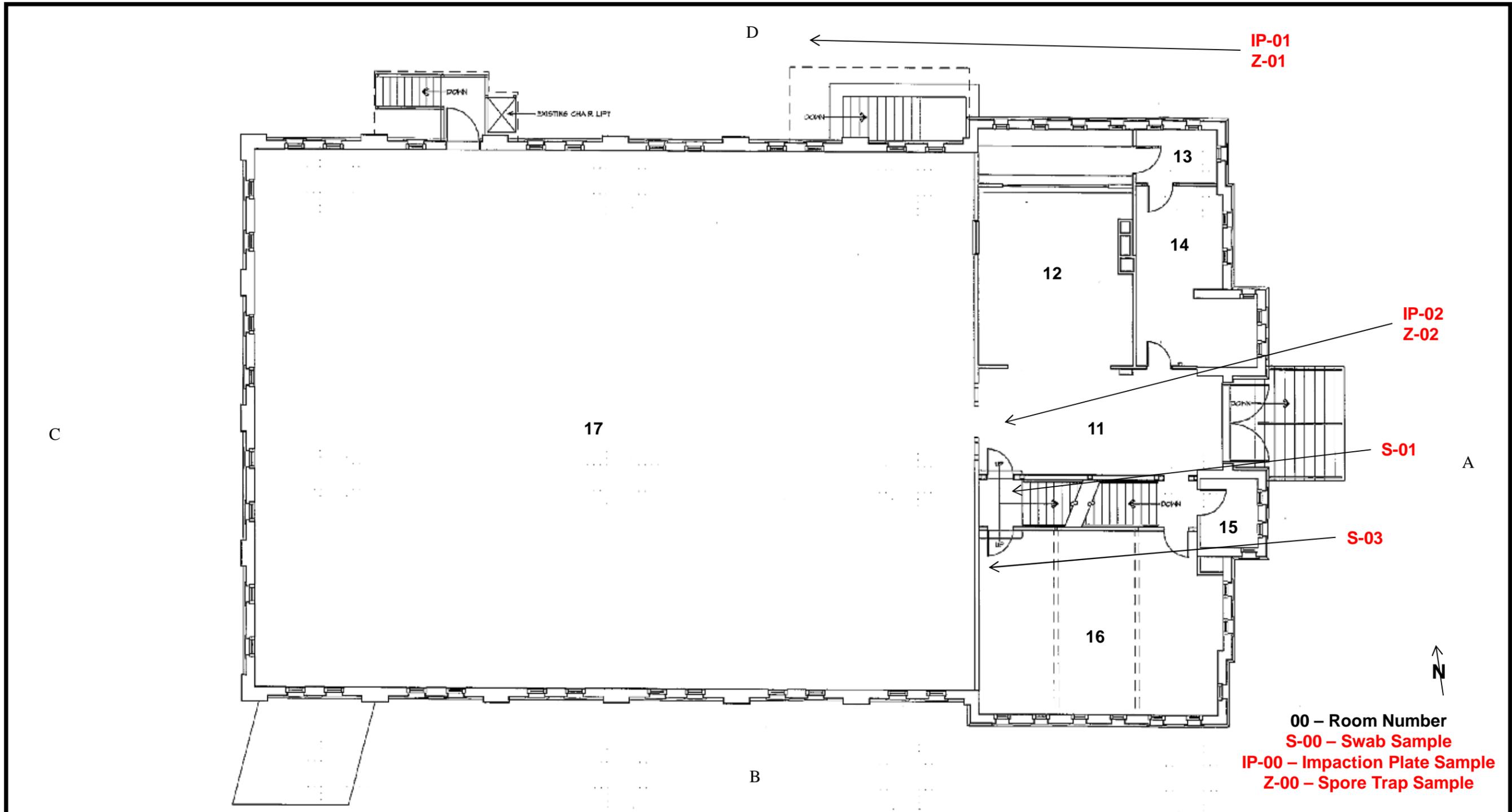
Address: St. Johnsbury Armory - Basement  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



**SAMPLE LOCATION DIAGRAM – IAQ**

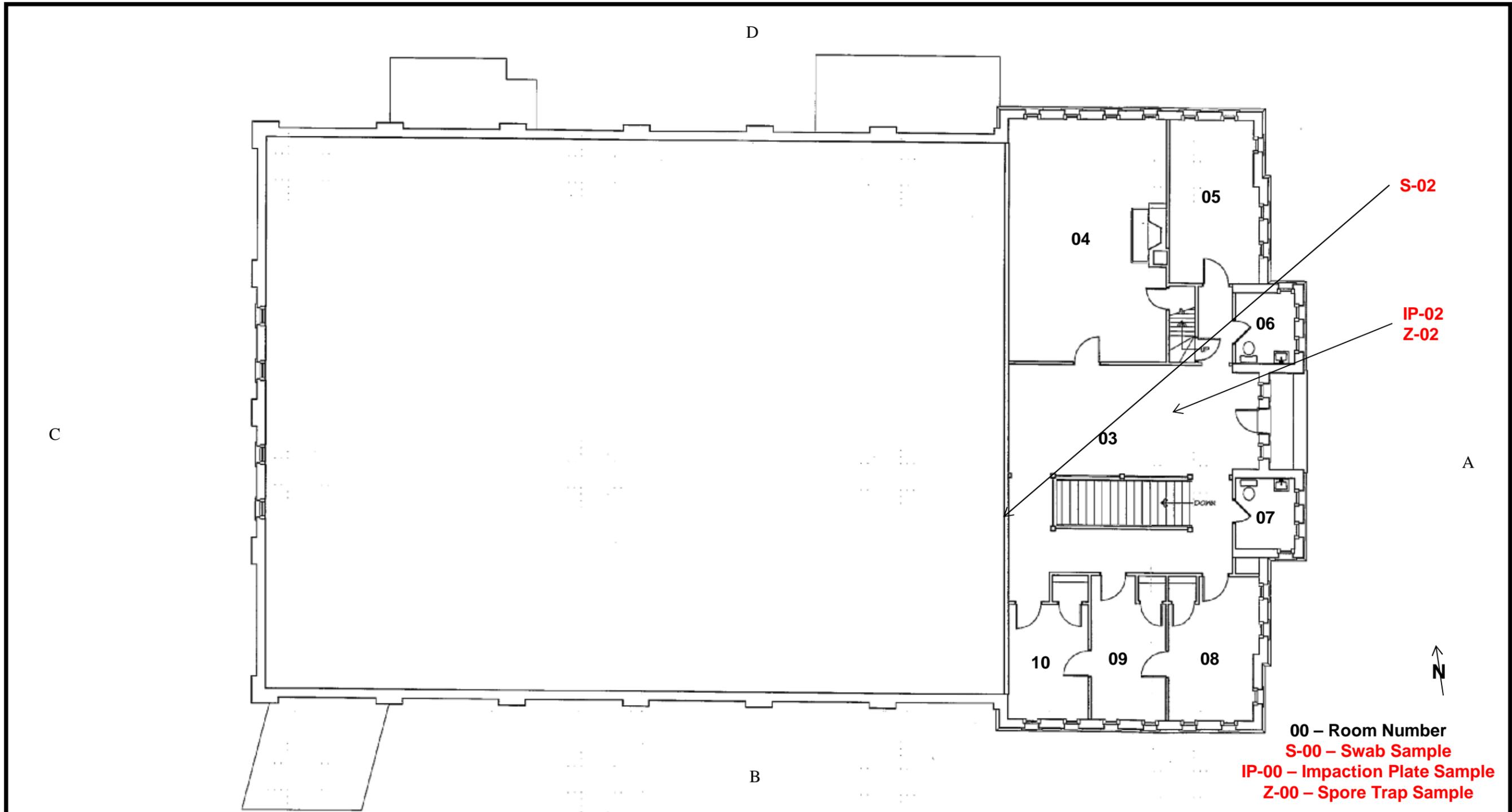
Address: St. Johnsbury Armory – 1<sup>st</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale



00 – Room Number  
 S-00 – Swab Sample  
 IP-00 – Impaction Plate Sample  
 Z-00 – Spore Trap Sample

**SAMPLE LOCATION DIAGRAM**

Address: St. Johnsbury Armory – 2<sup>nd</sup> Floor  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013

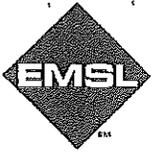


171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale

## Indoor Air Quality Laboratory Report



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-0262  
<http://www.emsl.com> / [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)

Order ID: 371220373  
 Customer ID: ATCE53  
 Customer PO:  
 Project ID:

Attn: Harland Miller  
 Cardno ATC  
 PO Box 1486  
 Williston, VT 05495

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Collected: 12/18/2012  
 Received: 12/20/2012  
 Analyzed: 01/02/2013

Proj: 63.35078.0013

**Test Report: Air-O-Cell Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)**

Lab Sample Number:	371220373-0006			371220373-0007			371220373-0008		
Client Sample ID:	Z-01			Z-02			Z-03		
Volume (L):	150			150			150		
Sample Location:	Ext north door			Room 03			Room 11		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria	1*	7*	2.9	-	-	-	1*	7*	3.7
Ascospores	7	100	20.6	-	-	-	1*	7*	3.7
Aspergillus/Penicillium	21	430	61.8	20	410	66.7	11	230	40.7
Basidiospores	3	60	8.8	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	1*	7*	2.9	6	100	20	1	20	3.7
Curvularia	-	-	-	-	-	-	1*	7*	3.7
Epicoccum	1*	7*	2.9	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	1	20	3.3	5	100	18.5
Myxomycetes++	-	-	-	2	40	6.7	3*	20*	11.1
Pithomyces	-	-	-	-	-	-	1	20	3.7
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	1*	7*	3.7
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	1*	7*	3.3	2	40	7.4
Zygomycetes	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>34</b>	<b>611</b>	<b>100</b>	<b>30</b>	<b>577</b>	<b>100</b>	<b>27</b>	<b>458</b>	<b>100</b>
Hyphal Fragment	1*	7*	-	1	20	-	1	20	-
Insect Fragment	-	-	-	-	-	-	1*	7*	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	2	-	-	3	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	1	-	-	3	-

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum  
 Myxomycetes++ = Myxomycetes/Periconia/Smut

Farbod Nekouei, M.S., Laboratory Manager  
 or Other Approved Signatory

No discernable field blank was submitted with this group of samples.

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. \*\*\* Denotes particles found at 300X. \* Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. 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.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AHA-LAP, LLC—EMLAP Lab 100194

Initial report from: 01/02/2013 10:58:31

For information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-0262  
<http://www.emsl.com> / [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)

Order ID: 371220373  
Customer ID: ATCE53  
Customer PO:  
Project ID:

**Attn:** Harland Miller  
Cardno ATC  
PO Box 1486  
Williston, VT 05495

Phone: (802) 862-1980  
Fax: (802) 862-1405  
Collected: 12/18/2012  
Received: 12/20/2012  
Analyzed: 01/02/2013

**Proj:** 63.35078.0013

### Test Report: Air-O-Cell Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	371220373-0009			371220373-0010		
Client Sample ID:	Z-04			Z-05		
Volume (L):	150			150		
Sample Location:	Room 25			Room 40		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria	-	-	-	-	-	-
Ascospores	1	20	0.6	-	-	-
Aspergillus/Penicillium	139	2850	87.4	-	-	-
Basidiospores	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-
Cladosporium	13	270	8.2	-	-	-
Curvularia	-	-	-	-	-	-
Epicoccum	1*	7*	0.6	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	2*	10*	1.3	-	-	-
Pithomyces	-	-	-	-	-	-
Rust	-	-	-	-	-	-
Scopulariopsis	1	20	0.6	-	-	-
Stachybotrys	2*	10*	1.3	-	-	-
Torula	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-
<b>Total Fungi</b>	<b>159</b>	<b>3187</b>	<b>100</b>	-	<b>No Trace</b>	-
Hyphal Fragment	1	20	-	-	-	-
Insect Fragment	-	-	-	-	-	-
Pollen	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	-	-
Fibrous Particulate (1-4)	-	1	-	-	-	-
Background (1-5)	-	2	-	-	-	-

Bipolaris++ = Bipolaris/Dreschlera/Exscohilum  
Myxomycetes++ = Myxomycetes/Periconia/Smut

Farbod Nekouei, M.S., Laboratory Manager  
or Other Approved Signatory

No discernable field blank was submitted with this group of samples.

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. \*\*\* Denotes particles found at 300X. -\* Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. 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.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from: 01/02/2013 10:58:31

For information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-0262  
<http://www.emsl.com> [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)

EMSL Order: 371220373  
 CustomerID: ATCE53  
 CustomerPO:  
 ProjectID:

Attn: **Harland Miller**  
**Cardno ATC**  
**PO Box 1486**

**Williston, VT 05495**

Project: 63.35078.0013

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Received: 12/20/12 11:00 AM  
 Analysis Date: 12/27/2012  
 Collected: 12/18/2012

**Test Report: Viable Fungi Identification and Enumeration  
 (Genus Level ID from Plate and Strip Impactors (EMSL Method M005))**

Sample Description	Location	Volume (L)	Media	Incubation Temp (C)	Sensitivity (CFU/m <sup>3</sup> )	Fungal Identification	Colony Count	CFU/m <sup>3</sup>
IP-01 371220373-0001	Ext north door	136.45	MEA	25	7	<i>Aspergillus sp.</i>	1	7
						<i>Penicillium sp.</i>	5	35
						<i>Sterile(dark)</i>	1	7
						<i>Sterile(white)</i>	4	28
						<i>Yeast</i>	3	21
						<b>Total</b>	<b>14</b>	<b>98</b>
IP-02 371220373-0002	Room 03	136.45	MEA	25	7	<i>Aspergillus sp.</i>	24	168
						<i>Cladosporium sp.</i>	2	14
						<i>Penicillium sp.</i>	2	14
						<i>Sterile(white)</i>	2	14
						<b>Total</b>	<b>30</b>	<b>210</b>
IP-03 371220373-0003	Room 11	136.45	MEA	25	7	<i>Aspergillus sp.</i>	63	441
						<i>Cladosporium sp.</i>	1	7
						<i>Penicillium sp.</i>	7	49
						<i>Sterile(white)</i>	2	14
						<b>Total</b>	<b>73</b>	<b>511</b>
IP-04 371220373-0004	Room 25	136.45	MEA	25	7	<i>Aspergillus sp.</i>	31	217
						<i>Penicillium sp.</i>	3	21
						<i>Scopulariopsis sp.</i>	2	14
						<b>Total</b>	<b>36</b>	<b>252</b>
IP-05 371220373-0005	Room 40	136.45	MEA	25	7	None Detected		

No discernable blank was submitted with this group of samples.

Analyst(s)  
 Zeljko Jurjevic (5)

Farbod Nekouei, M.S., Laboratory Manager  
 or other approved signatory

Positive hole correction factors have not been applied to the reported data. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. Interpretation of the data contained in this report is the responsibility of the client. 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. The detection limit is equal to 1 colony forming unit (CFU) per agar plate.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Lab 100194

Initial report from 12/27/2012 19:16:52

Test Report ViableFungi-7.26.0 Printed: 12/27/2012 7:16:52 PM

**THIS IS THE LAST PAGE OF THE REPORT.**



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

371220373

EMSL ANALYTICAL, INC.  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (800) 220-3675  
FAX: (856) 786-0262

Company: <u>Cardno ATC</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>71 Commerce St.</u>		Third Party Billing requires written authorization from third party	
City: <u>Williston</u>	State/Province: <u>VT</u>	Zip/Postal Code:	Country:
Report To (Name): <u>Harland Miller</u>		Telephone #:	
Email Address: <u>Harland.Miller@Cardno.com</u>		Fax #:	Purchase Order:
Project Name/Number: <u>63.35678.0013</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax	
U.S. State Samples Taken: <u>Vermont</u>		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options\* - Please Check

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

**Non Culturable Air Samples (Spore Traps) - Test Codes**

• M001 Air-O-Cell	• M173 Allegro M2	• M004 Allergenco	• M032 Allergenco-D	• M172 Versa Trap
• M049 BioSIS	• M003 Burkard	• M043 Cyclex	• M002 Cyclex-d	
• M030 Micro 5	• M174 MoldSnap	• M176 Relle Smart	• M130 Via-Cell	

**Other Microbiology Test Codes**

• M041 Fungal Direct Examination	• M014 Endotoxin Analysis	• M029 Enterococci
• M005 Viable Fungi ID and Count	• M015 Heterotrophic Plate Count	• M019 Fecal Coliform
• M006 Viable Fungi ID and Count (Speciation)	• M180 Real Time Q-PCR-ERMI 36	• M133 MRSA Analysis
• M007 Culturable Fungi	• Panel	• M028 <i>Cryptococcus neoformans</i> Detection
• M008 Culturable Fungi (Speciation)	• M018 Total Coliform (Membrane Filtration)	• M120 <i>Histoplasma capsulatum</i> Detection
• M009 Gram Stain Culturable Bacteria	• M020 Fecal <i>Streptococcus</i> (Membrane Filtration)	• M033-39 Allergen Testing
• M010 Bacterial Count and ID - 3 Most Prominent	• M210-215 <i>Legionella</i> Detection	• M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
• M011 Bacterial Count and ID - 5 Most Prominent	• M026 Recreational Water Screen	• Other See Analytical Price Guide
• M013 Sewage Contamination in Buildings	• M027 Mycotoxin Analysis	

Preservation Method (Water):

Name of Sampler: \_\_\_\_\_ Signature of Sampler: \_\_\_\_\_

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Air	M001	75L	1/1/12 4:00 PM
SEE ATTACHED					

Client Sample # (s): IP01 - IP05 201 - 205 Total # of Samples: 10

Relinquished (Client): [Signature] Date: 12/19/12 Time: 1800

Received (Client): [Signature] Date: 12/20/12 Time: 1108

Comments: \_\_\_\_\_

2012 DEC 20 AM 11:53  
CHINA MINSU

Received  
12/20/12





# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-0262  
<http://www.emsl.com> / [cinnmicrolab@emsl.com](mailto:cinnmicrolab@emsl.com)

Order ID: 371220822  
 Customer ID: ATCE53  
 Customer PO:  
 Project ID:

Attn: Jesse Stratton  
 Cardno ATC  
 PO Box 1486  
 Williston, VT 05495

Phone: (802) 862-1980  
 Fax: (802) 862-1405  
 Collected: 12/28/2012  
 Received: 12/31/2012  
 Analyzed: 01/02/2013

Proj: 63.35078.0013

## Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Swab Samples (EMSL Method: M041)

Lab Sample Number:	371220822-0001	371220822-0002	371220822-0003	371220822-0004	
Client Sample ID:	S-01	S-03 3rd Fl	S-03	S-04	
Sample Location:	31B @ Bottom of Stairs	Rm 3 West Wall Under Paint	Rm 16 NW Corner on Joists	Blank	
Spore Types	Category	Category	Category	Category	
Agrocybe/Coprinus	-	-	-	-	
Alternaria	-	-	-	-	
Ascospores	-	-	-	-	
Aspergillus/Penicillium	-	Rare	-	-	
Basidiospores	-	-	-	-	
Bipolaris++	-	-	-	-	
Chaetomium	*High*	-	-	-	
Cladosporium	-	Rare	-	-	
Curvularia	-	-	-	-	
Epicoccum	-	-	-	-	
Fusarium	-	-	-	-	
Ganoderma	-	-	-	-	
Myxomycetes++	-	-	-	-	
Paecilomyces	-	-	-	-	
Rust	-	-	-	-	
Scopulariopsis	-	-	-	-	
Stachybotrys	-	-	-	-	
Torula	-	-	-	-	
Ulocladium	-	-	-	-	
Unidentifiable Spores	-	-	-	-	
Zygomycetes	-	-	-	-	
Aspergillus	*Rare*	-	-	-	
Penicillium	*Medium*	-	-	-	
Fibrous Particulate	-	-	-	-	
Hyphal Fragment	-	-	-	-	
Insect Fragment	-	-	-	-	
Pollen	-	-	-	-	

Sample Comment: 371220822-0003 None Detected  
 Sample Comment: 371220822-0004 None Detected

Category: Count/per area analyzed  
 Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut  
 \* = Sample contains fruiting structures and/or hyphae associated with the spores.

Farbod Nekouei, M.S., Laboratory Manager  
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation of the data contained in this report is the responsibility of the client. \*-\* denotes not detected. Samples received in good condition unless otherwise noted.  
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-EMLAP Accredited #100194

Initial report from: 01/02/2013 09:38:05

For information on the fungi listed in this report please visit the Resources section at [www.emsl.com](http://www.emsl.com)



EMSL ANALYTICAL, INC.  
LABORATORY PRODUCTS TRAINING

# Microbiology Chain of Custody

EMSL Order Number (Lab Use Only):

371220822

EMSL Analytical, Inc.

200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

<b>Company:</b> Cardno ATC		<b>EMSL-Bill to:</b> <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same If Bill to is Different note instructions in Comments**	
<b>Street:</b> 171 Commerce Street PO Box 1486		Third Party Billing requires written authorization from third party	
<b>City:</b> Williston	<b>State/Province:</b> VT	<b>Zip/Postal Code:</b> 05495	<b>Country:</b> United States
<b>Report To (Name):</b> Jesse Stratton		<b>Telephone #:</b> 802-862-1980	
<b>Email Address:</b> jesse.stratton@cardno.com		<b>Fax #:</b>	<b>Purchase Order:</b>
<b>Project Name/Number:</b> 63.35078.0013		<b>Please Provide Results:</b> <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
<b>U.S. State Samples Taken:</b> VT		<b>Connecticut Samples:</b> <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

### Turnaround Time (TAT) Options\* - Please Check

3 Hour  
 6 Hour  
 24 Hour  
 48 Hour  
 72 Hour  
 96 Hour  
 1 Week  
 2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements

### Non Culturable Air Samples (Spore Traps) - Test Codes

- M001 Air-O-Cell
- M049 BioSIS
- M030 Micro 5
- M173 Allegro M2
- M003 Burkard
- M174 MoldSnap
- M004 Allergenco
- M043 Cyclex
- M176 Relle Smart
- M032 Allergenco-D
- M002 Cyclex-d
- M130 Via-Cell
- M172 Versa Trap

### Other Microbiology Test Codes

- M041 Fungal Direct Examination
- M005 Viable Fungi ID and Count
- M006 Viable Fungi ID and Count (Speciation)
- M007 Culturable Fungi
- M008 Culturable Fungi (Speciation)
- M009 Gram Stain Culturable Bacteria
- M010 Bacterial Count and ID - 3 Most Prominent
- M011 Bacterial Count and ID - 5 Most Prominent
- M013 Sewage Contamination in Buildings
- M014 Endotoxin Analysis
- M015 Heterotrophic Plate Count
- M180 Real Time Q-PCR-ERMI 36
- Panel
- M018 Total Coliform (Membrane Filtration)
- M020 Fecal Streptococcus (Membrane Filtration)
- M210-215 Legionella Detection
- M026 Recreational Water Screen
- M027 Mycotoxin Analysis
- M029 Enterococci
- M019 Fecal Coliform
- M133 MRSA Analysis
- M028 Cryptococcus neoformans Detection
- M120 Histoplasma capsulatum Detection
- M033-39 Allergen Testing
- M044 Group Allergen (Cat, Dog, Cockroach, Dustmites)
- Other See Analytical Price Guide

### Preservation Method (Water):

<b>Name of Sampler:</b>	<b>Signature of Sampler:</b>
-------------------------	------------------------------

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Air	M001	75L	1/1/12 4:00 PM
S-01	216 @ bottom of stairs	Swabs	M041	1 m <sup>2</sup>	12/29/12 1600
S-02	RM 3 Wk wall under paint	Swabs	M041	1 m <sup>2</sup>	12/29/12 1605
S-03	RM 16 NW Corner on Joist	Swabs	M041	1 m <sup>2</sup>	12/28/12 1610
S-04	Blank	Swabs	M041	1 m <sup>2</sup>	12/28/12 1620

<b>Client Sample # (s):</b> S-001 - S-004	<b>Total # of Samples:</b> 4
---	------------------------------

<b>Relinquished (Client):</b> [Signature]	<b>Date:</b> 12/29/12	<b>Time:</b> 1630
---	-----------------------	-------------------

<b>Received (Client):</b> [Signature]	<b>Date:</b> 12-31-2012	<b>Time:</b> 8:40 AM
---------------------------------------	-------------------------	----------------------

**Comments:**

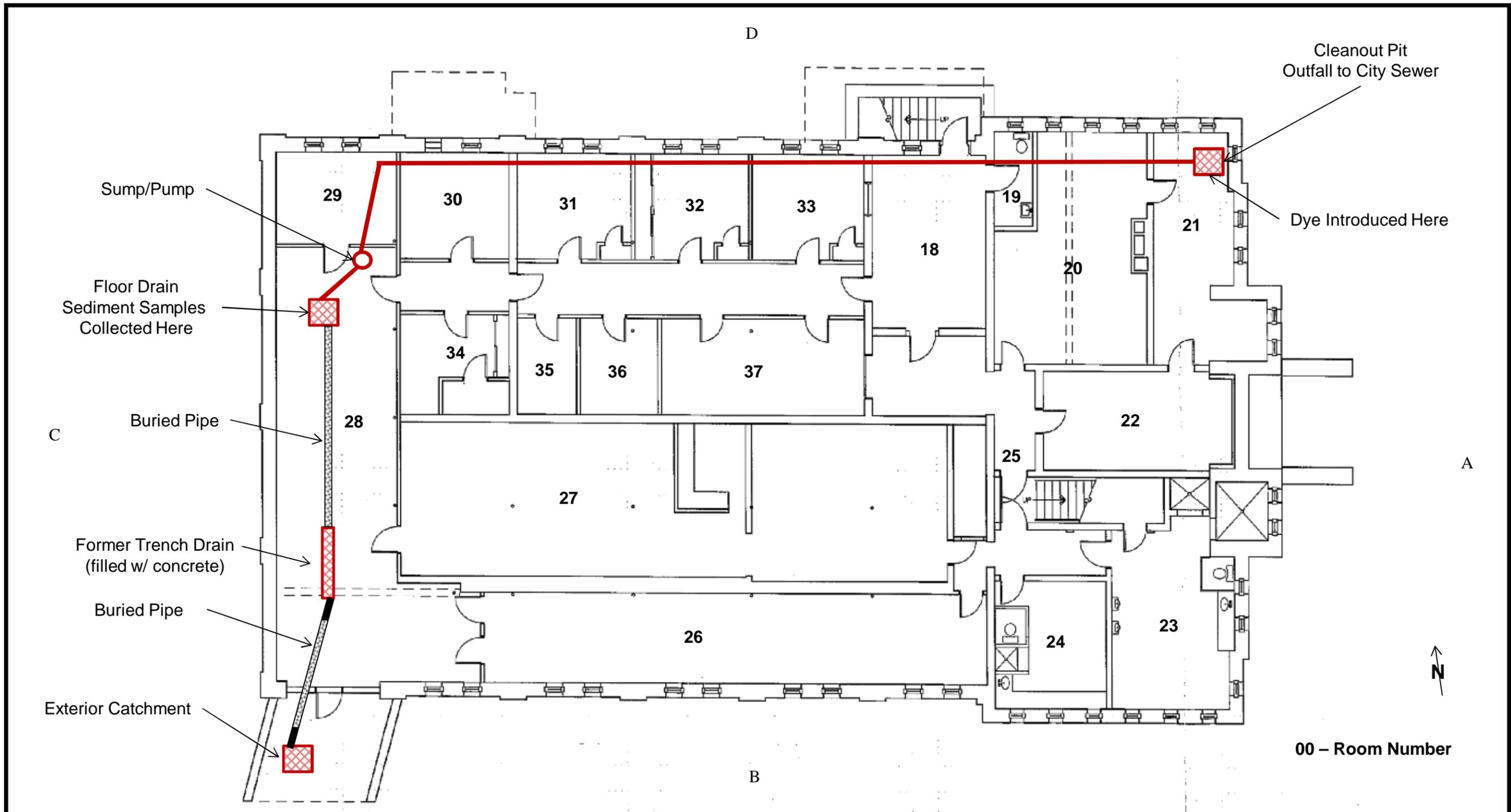
Received  
12/31/12

4

## **Appendix F**

Diagram of Floor Drains and Sediment Samples  
Sediment Sample Laboratory Report

## Diagram of Floor Drains and Sediment Samples



**SAMPLE LOCATION DIAGRAM - Drains**

Address: St. Johnsbury Armory - Basement  
 1249 Main Street  
 St. Johnsbury, Vermont  
 Project Number: 063.35078.0013



171 Commerce St. Williston, Vermont 05495  
 Phone: (802) 862-1980 Fax: (802) 862-1405

SOURCE : Field Notes

SCALE: Not to scale

## Sediment Sample Laboratory Report

## ANALYTICAL REPORT

Job Number: 200-14287-1

Job Description: St. J Armory

For:

Cardno ATC

171 Commerce Street

PO BOX 1486

Williston, VT 05495

Attention: Mr. Stephen Znamierowski



Approved for release.  
Sara S Goff  
Project Manager I  
2/5/2013 8:42 AM

---

Sara S Goff  
Project Manager I  
sara.goff@testamericainc.com  
02/05/2013  
Revision: 1

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

## CASE NARRATIVE

Client: Cardno ATC

Project: St. J Armory

Report Number: 200-14287-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 12/19/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.0 C.

Client has revised Chain-of-Custody with sample identifiers that match what is recorded on the container labels.

### VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples S-07 and S-08 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were prepared on 12/20/2012 and analyzed on 01/03/2013, 12/28/2012 and 12/31/2012.

Sample S-08 required a dilution which was performed outside of the analytical holding time. The original undiluted analysis which was performed within analytical holding time has also been provided.

Due to poor acquisition of both low level sample aliquots the medium level aliquot was analyzed and reported.

Several analytes were detected in method blank MB 200-50187/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the volatiles analyses. All other quality control parameters were within the acceptance limits.

### DIESEL RANGE ORGANICS

Samples S-01 and S-02 were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 12/31/2012 and analyzed on 01/04/2013.

Samples S-01[3X] and S-02[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the DRO analyses. All quality control parameters were within the acceptance limits.

### METALS (ICP)

Samples S-05 and S-06 were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 12/28/2012 and analyzed on 12/29/2012.

The serial dilution performed for sample S-05 was outside control limits for Chromium, Copper, Nickel, and Zinc. The post digestion spike percent recovery for sample S-05 was outside of control limits for Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, and Zinc.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

### MERCURY

Samples S-03 and S-04 were analyzed for mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 12/26/2012 and analyzed on 12/28/2012.

Hg was detected in method blank MB 200-50058/11-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the mercury analyses. All other quality control parameters were within the acceptance limits.

## EXECUTIVE SUMMARY - Detections

Client: Cardno ATC

Job Number: 200-14287-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-14287-1 Diesel Range Organics [C10-C28] Percent Solids	S-01	120 84.1		24 0.25	mg/Kg %	8015B Moisture
200-14287-2 Diesel Range Organics [C10-C28] Percent Solids	S-02	170 82.3		41 0.25	mg/Kg %	8015B Moisture
200-14287-3 Hg Percent Solids	S-03	0.063 84.2	B	0.036 0.25	mg/Kg %	7471B Moisture
200-14287-4 Hg Percent Solids	S-04	0.054 86.7	B	0.035 0.25	mg/Kg %	7471B Moisture
200-14287-5 Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Nickel Zinc Percent Solids	S-05	0.54 2.5 0.38 0.45 19.3 56.4 62.1 20.1 101 84.0	J  J	5.3 0.88 0.44 0.44 0.88 2.2 0.88 3.5 1.8 0.25	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg %	6010C 6010C 6010C 6010C 6010C 6010C 6010C 6010C 6010C Moisture
200-14287-6 Antimony Arsenic Beryllium Cadmium Chromium Copper Lead Nickel Zinc Percent Solids	S-06	0.57 2.0 0.34 0.59 18.3 53.1 82.6 18.4 127 85.5	J	3.7 0.62 0.31 0.31 0.62 1.5 0.62 2.5 1.2 0.25	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg %	6010C 6010C 6010C 6010C 6010C 6010C 6010C 6010C 6010C Moisture

**EXECUTIVE SUMMARY - Detections**

Client: Cardno ATC

Job Number: 200-14287-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-14287-7</b>	<b>S-07</b>					
Bromomethane		37	J	120	ug/Kg	8260B
Acetone		310	J	600	ug/Kg	8260B
Methyl acetate		120		120	ug/Kg	8260B
Percent Solids		84.2		0.25	%	Moisture
<b>200-14287-8</b>	<b>S-08</b>					
Acetone		6000	H	620	ug/Kg	8260B
Acetone		1200	E	5.0	ug/Kg	8260B
Methyl acetate		130	H	120	ug/Kg	8260B
Styrene		47	J H	120	ug/Kg	8260B
1,2,4-Trichlorobenzene		0.42	J B	5.0	ug/Kg	8260B
Naphthalene		0.80	J B	5.0	ug/Kg	8260B
1,2,3-Trichlorobenzene		0.42	J B	5.0	ug/Kg	8260B
Percent Solids		86.7		0.25	%	Moisture

## METHOD SUMMARY

Client: Cardno ATC

Job Number: 200-14287-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Solid</b>			
Volatle Organic Compounds (GC/MS)	TAL BUR	SW846 8260B	
Closed System Purge and Trap	TAL BUR		SW846 5035
Volatle Organic Compounds (GC/MS)	TAL BUR	SW846 8260B	
Purge and Trap	TAL BUR		SW846 5035
Diesel Range Organics (DRO) (GC)	TAL BUR	SW846 8015B	
Ultrasonic Extraction	TAL BUR		SW846 3550C
Metals (ICP)	TAL BUR	SW846 6010C	
Preparation, Metals	TAL BUR		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL BUR	SW846 7471B	
Preparation, Mercury	TAL BUR		SW846 7471B
Percent Moisture	TAL BUR	EPA Moisture	

### Lab References:

TAL BUR = TestAmerica Burlington

### Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Cardno ATC

Job Number: 200-14287-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B	Keene, Angela H	AHK
SW846 8260B	Phillips, Mark T	MTP
SW846 8015B	Wilbur, Janelle S	JSW
SW846 6010C	Kvasnak, Ethan T	ETK
SW846 7471B	Pham, Vu T	VTP
EPA Moisture	Fodge, John F	JFF
EPA Moisture	Kirchner, Benjamin	HO

## SAMPLE SUMMARY

Client: Cardno ATC

Job Number: 200-14287-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
200-14287-1	S-01	Solid	12/17/2012 1112	12/19/2012 1530
200-14287-2	S-02	Solid	12/17/2012 1112	12/19/2012 1530
200-14287-3	S-03	Solid	12/17/2012 1119	12/19/2012 1530
200-14287-4	S-04	Solid	12/17/2012 1119	12/19/2012 1530
200-14287-5	S-05	Solid	12/17/2012 1126	12/19/2012 1530
200-14287-6	S-06	Solid	12/17/2012 1126	12/19/2012 1530
200-14287-7	S-07	Solid	12/18/2012 1100	12/19/2012 1530
200-14287-8	S-08	Solid	12/18/2012 1101	12/19/2012 1530

# **SAMPLE RESULTS**

## Analytical Data

Job Number: 200-14287-1

Client: Cardno ATC

Client Sample ID: S-07

Lab Sample ID: 200-14287-7

Date Sampled: 12/18/2012 1100

Client Matrix: Solid

% Moisture: 15.8

Date Received: 12/19/2012 1530

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 200-50167	Instrument ID: L.i
Prep Method: 5035	Prep Batch: 200-49811	Lab File ID: lilc08.d
Dilution: 1.0		Initial Weight/Volume: 5.359 g
Analysis Date: 12/31/2012 1332		Final Weight/Volume: 10 mL
Prep Date: 12/20/2012 0937		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		120	U	25	120
Chloromethane		120	U	31	120
Vinyl chloride		120	U	24	120
Bromomethane		37	J	30	120
Chloroethane		120	U	18	120
Trichlorofluoromethane		120	U	16	120
1,1-Dichloroethene		120	U	26	120
Freon TF		120	U	22	120
Acetone		310	J	110	600
Methyl iodide		120	U	8.9	120
Carbon disulfide		120	U	19	120
Methyl acetate		120		25	120
Methylene Chloride		120	U	32	120
trans-1,2-Dichloroethene		120	U	24	120
1,2-Dichloroethene, Total		120	U	22	120
Methyl t-butyl ether		120	U	22	120
1,1-Dichloroethane		120	U	24	120
Vinyl acetate		120	U	53	120
2,2-Dichloropropane		120	U	26	120
cis-1,2-Dichloroethene		120	U	22	120
2-Butanone		600	U	100	600
Bromochloromethane		120	U	23	120
Tetrahydrofuran		1700	U	270	1700
Chloroform		120	U	23	120
1,1,1-Trichloroethane		120	U	24	120
Cyclohexane		120	U	24	120
1,1-Dichloropropene		120	U	24	120
Carbon tetrachloride		120	U	18	120
Isobutyl alcohol		6000	U	1100	6000
Benzene		120	U	25	120
1,2-Dichloroethane		120	U	20	120
Trichloroethene		120	U	20	120
Methylcyclohexane		120	U	22	120
1,2-Dichloropropane		120	U	23	120
Dibromomethane		120	U	23	120
1,4-Dioxane		6000	U	1300	6000
Bromodichloromethane		120	U	23	120
2-Chloroethyl vinyl ether		120	U	20	120
cis-1,3-Dichloropropene		120	U	22	120
4-Methyl-2-pentanone		600	U	130	600
Toluene		120	U	24	120
trans-1,3-Dichloropropene		120	U	20	120
1,1,2-Trichloroethane		120	U	23	120
Tetrachloroethene		120	U	24	120
1,3-Dichloropropane		120	U	19	120
2-Hexanone		600	U	93	600

Analytical Data

Job Number: 200-14287-1

Client: Cardno ATC

Client Sample ID: S-07

Lab Sample ID: 200-14287-7

Date Sampled: 12/18/2012 1100

Client Matrix: Solid

% Moisture: 15.8

Date Received: 12/19/2012 1530

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 200-50167	Instrument ID: Li
Prep Method: 5035	Prep Batch: 200-49811	Lab File ID: llic08.d
Dilution: 1.0		Initial Weight/Volume: 5.359 g
Analysis Date: 12/31/2012 1332		Final Weight/Volume: 10 mL
Prep Date: 12/20/2012 0937		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromochloromethane		120	U	19	120
1,2-Dibromoethane		120	U	23	120
Chlorobenzene		120	U	24	120
1,1,1,2-Tetrachloroethane		120	U	24	120
Ethylbenzene		120	U	24	120
m&p-Xylene		120	U	45	120
o-Xylene		120	U	25	120
Xylenes, Total		120	U	25	120
Styrene		120	U	20	120
Bromofom		120	U	20	120
Isopropylbenzene		120	U	23	120
Bromobenzene		120	U	24	120
1,1,2,2-Tetrachloroethane		120	U	22	120
1,2,3-Trichloropropane		120	U	22	120
n-Propylbenzene		120	U	24	120
2-Chlorotoluene		120	U	26	120
4-Chlorotoluene		120	U	26	120
1,3,5-Trimethylbenzene		120	U	24	120
tert-Butylbenzene		120	U	22	120
1,2,4-Trimethylbenzene		120	U	23	120
sec-Butylbenzene		120	U	23	120
1,3-Dichlorobenzene		120	U	23	120
4-Isopropyltoluene		120	U	23	120
1,4-Dichlorobenzene		120	U	23	120
1,2-Dichlorobenzene		120	U	24	120
n-Butylbenzene		120	U	23	120
1,2-Dibromo-3-Chloropropane		120	U	20	120
1,2,4-Trichlorobenzene		120	U	24	120
Hexachlorobutadiene		120	U	19	120
Naphthalene		120	U	18	120
1,2,3-Trichlorobenzene		120	U	23	120

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4	94		80 - 120
Toluene-d8	96		80 - 120
Bromofluorobenzene	92		80 - 125
1,2-Dichlorobenzene-d4	89		75 - 120

## Analytical Data

Client: Cardno ATC

Job Number: 200-14287-1

Client Sample ID: S-08

Lab Sample ID: 200-14287-8

Date Sampled: 12/18/2012 1101

Client Matrix: Solid

% Moisture: 13.3

Date Received: 12/19/2012 1530

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 200-50254	Instrument ID: L.i	
Prep Method: 5035	Prep Batch: 200-49811	Lab File ID: lilf08.d	
Dilution: 1.0		Initial Weight/Volume: 4.951 g	
Analysis Date: 01/03/2013 0105		Final Weight/Volume: 10 mL	
Prep Date: 12/20/2012 0937			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		120	UH	26	120
Chloromethane		120	UH	32	120
Vinyl chloride		120	UH	25	120
Bromomethane		120	UH	31	120
Chloroethane		120	UH	19	120
Trichlorofluoromethane		120	UH	16	120
1,1-Dichloroethene		120	UH	27	120
Freon TF		120	UH	22	120
Acetone		6000	H	110	620
Methyl iodide		120	UH	9.2	120
Carbon disulfide		120	UH	20	120
Methyl acetate		130	H	26	120
Methylene Chloride		120	UH	34	120
trans-1,2-Dichloroethene		120	UH	25	120
1,2-Dichloroethene, Total		120	UH	22	120
Methyl t-butyl ether		120	UH	22	120
1,1-Dichloroethane		120	UH	25	120
Vinyl acetate		120	UH	55	120
2,2-Dichloropropane		120	UH	27	120
cis-1,2-Dichloroethene		120	UH	22	120
2-Butanone		620	UH	110	620
Bromochloromethane		120	UH	24	120
Tetrahydrofuran		1700	UH	270	1700
Chloroform		120	UH	24	120
1,1,1-Trichloroethane		120	UH	25	120
Cyclohexane		120	UH	25	120
1,1-Dichloropropene		120	UH	25	120
Carbon tetrachloride		120	UH	19	120
Isobutyl alcohol		6200	UH	1200	6200
Benzene		120	UH	26	120
1,2-Dichloroethane		120	UH	21	120
Trichloroethene		120	UH	21	120
Methylcyclohexane		120	UH	22	120
1,2-Dichloropropane		120	UH	24	120
Dibromomethane		120	UH	24	120
1,4-Dioxane		6200	UH	1400	6200
Bromodichloromethane		120	UH	24	120
2-Chloroethyl vinyl ether		120	UH	21	120
cis-1,3-Dichloropropene		120	UH	22	120
4-Methyl-2-pentanone		620	UH	130	620
Toluene		120	UH	25	120
trans-1,3-Dichloropropene		120	UH	21	120
1,1,2-Trichloroethane		120	UH	24	120
Tetrachloroethene		120	UH	25	120
1,3-Dichloropropane		120	UH	20	120
2-Hexanone		620	UH	96	620

## Analytical Data

Job Number: 200-14287-1

Client: Cardno ATC

Client Sample ID: S-08

Lab Sample ID: 200-14287-8

Client Matrix: Solid

% Moisture: 13.3

Date Sampled: 12/18/2012 1101

Date Received: 12/19/2012 1530

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 200-50254	Instrument ID: L.i
Prep Method: 5035	Prep Batch: 200-49811	Lab File ID: liif08.d
Dilution: 1.0		Initial Weight/Volume: 4.951 g
Analysis Date: 01/03/2013 0105		Final Weight/Volume: 10 mL
Prep Date: 12/20/2012 0937		

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromochloromethane		120	UH	20	120
1,2-Dibromoethane		120	UH	24	120
Chlorobenzene		120	UH	25	120
1,1,1,2-Tetrachloroethane		120	UH	25	120
Ethylbenzene		120	UH	25	120
m&p-Xylene		120	UH	46	120
o-Xylene		120	UH	26	120
Xylenes, Total		120	UH	26	120
Styrene		47	JH	21	120
Bromoform		120	UH	21	120
Isopropylbenzene		120	UH	24	120
Bromobenzene		120	UH	25	120
1,1,2,2-Tetrachloroethane		120	UH	22	120
1,2,3-Trichloropropane		120	UH	22	120
n-Propylbenzene		120	UH	25	120
2-Chlorotoluene		120	UH	27	120
4-Chlorotoluene		120	UH	27	120
1,3,5-Trimethylbenzene		120	UH	25	120
tert-Butylbenzene		120	UH	22	120
1,2,4-Trimethylbenzene		120	UH	22	120
sec-Butylbenzene		120	UH	24	120
1,3-Dichlorobenzene		120	UH	24	120
4-Isopropyltoluene		120	UH	24	120
1,4-Dichlorobenzene		120	UH	24	120
1,2-Dichlorobenzene		120	UH	25	120
n-Butylbenzene		120	UH	24	120
1,2-Dibromo-3-Chloropropane		120	UH	21	120
1,2,4-Trichlorobenzene		120	UH	25	120
Hexachlorobutadiene		120	UH	20	120
Naphthalene		120	UH	19	120
1,2,3-Trichlorobenzene		120	UH	24	120

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4	97		80 - 120
Toluene-d8	95		80 - 120
Bromofluorobenzene	94		80 - 125
1,2-Dichlorobenzene-d4	86		75 - 120

Analytical Data

Job Number: 200-14287-1

Client: Cardno ATC

Client Sample ID: S-08

Lab Sample ID: 200-14287-8

Client Matrix: Solid

% Moisture: 13.3

Date Sampled: 12/18/2012 1101

Date Received: 12/19/2012 1530

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	200-50187	Instrument ID:	N.i
Prep Method:	5035	Prep Batch:	200-49812	Lab File ID:	nhma09.d
Dilution:	1.0			Initial Weight/Volume:	5.746 g
Analysis Date:	12/28/2012 1400			Final Weight/Volume:	5 mL
Prep Date:	12/20/2012 0945				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dichlorodifluoromethane		5.0	U	0.35	5.0
Chloromethane		5.0	U	0.39	5.0
Vinyl chloride		5.0	U	0.30	5.0
Bromomethane		5.0	U	1.2	5.0
Chloroethane		5.0	U	0.39	5.0
Trichlorofluoromethane		5.0	U	0.27	5.0
1,1-Dichloroethene		5.0	U	0.39	5.0
Freon TF		5.0	U	0.31	5.0
Acetone		1200	E	2.1	5.0
Methyl iodide		5.0	U	0.65	5.0
Carbon disulfide		5.0	U	0.27	5.0
Methyl acetate		5.0	U	0.84	5.0
Methylene Chloride		5.0	U	0.40	5.0
trans-1,2-Dichloroethene		5.0	U	0.37	5.0
1,2-Dichloroethene, Total		5.0	U	0.35	5.0
Methyl t-butyl ether		5.0	U	0.41	5.0
1,1-Dichloroethane		5.0	U	0.34	5.0
Vinyl acetate		5.0	U	0.67	5.0
2,2-Dichloropropane		5.0	U	0.54	5.0
cis-1,2-Dichloroethene		5.0	U	0.35	5.0
2-Butanone		5.0	U	1.3	5.0
Bromochloromethane		5.0	U	0.33	5.0
Tetrahydrofuran		50	U	7.3	50
Chloroform		5.0	U	0.35	5.0
1,1,1-Trichloroethane		5.0	U	0.31	5.0
Cyclohexane		5.0	U	0.30	5.0
1,1-Dichloropropene		5.0	U	0.26	5.0
Carbon tetrachloride		5.0	U	0.29	5.0
Isobutyl alcohol		250	U	23	250
Benzene		5.0	U	0.32	5.0
1,2-Dichloroethane		5.0	U	0.39	5.0
Trichloroethene		5.0	U	0.36	5.0
Methylcyclohexane		5.0	U	0.26	5.0
1,2-Dichloropropane		5.0	U	0.33	5.0
Dibromomethane		5.0	U	0.34	5.0
1,4-Dioxane		250	U	15	250
Bromodichloromethane		5.0	U	0.36	5.0
2-Chloroethyl vinyl ether		5.0	U	0.23	5.0
cis-1,3-Dichloropropene		5.0	U	0.29	5.0
4-Methyl-2-pentanone		5.0	U	0.50	5.0
Toluene		5.0	U	0.11	5.0
trans-1,3-Dichloropropene		5.0	U	0.29	5.0
1,1,2-Trichloroethane		5.0	U	0.36	5.0
Tetrachloroethene		5.0	U	0.10	5.0
1,3-Dichloropropane		5.0	U	0.46	5.0
2-Hexanone		5.0	U	0.63	5.0

## Analytical Data

Client: Cardno ATC

Job Number: 200-14287-1

Client Sample ID: S-08

Lab Sample ID: 200-14287-8

Date Sampled: 12/18/2012 1101

Client Matrix: Solid

% Moisture: 13.3

Date Received: 12/19/2012 1530

### 8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B	Analysis Batch: 200-50187	Instrument ID: N.i	
Prep Method: 5035	Prep Batch: 200-49812	Lab File ID: nhma09.d	
Dilution: 1.0		Initial Weight/Volume: 5.746 g	
Analysis Date: 12/28/2012 1400		Final Weight/Volume: 5 mL	
Prep Date: 12/20/2012 0945			

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Dibromochloromethane		5.0	U	0.31	5.0
1,2-Dibromoethane		5.0	U	0.41	5.0
Chlorobenzene		5.0	U	0.16	5.0
1,1,1,2-Tetrachloroethane		5.0	U	0.060	5.0
Ethylbenzene		5.0	U	0.070	5.0
m&p-Xylene		5.0	U	0.25	5.0
o-Xylene		5.0	U	0.080	5.0
Xylenes, Total		5.0	U	0.080	5.0
Styrene		5.0	U	0.12	5.0
Bromoform		5.0	U	0.32	5.0
Isopropylbenzene		5.0	U	0.34	5.0
Bromobenzene		5.0	U	0.31	5.0
1,1,2,2-Tetrachloroethane		5.0	U	0.97	5.0
1,2,3-Trichloropropane		5.0	U	0.82	5.0
n-Propylbenzene		5.0	U	0.070	5.0
2-Chlorotoluene		5.0	U	0.35	5.0
4-Chlorotoluene		5.0	U	0.25	5.0
1,3,5-Trimethylbenzene		5.0	U	0.20	5.0
tert-Butylbenzene		5.0	U	0.26	5.0
1,2,4-Trimethylbenzene		5.0	U	0.050	5.0
sec-Butylbenzene		5.0	U	0.25	5.0
1,3-Dichlorobenzene		5.0	U	0.11	5.0
4-Isopropyltoluene		5.0	U	0.090	5.0
1,4-Dichlorobenzene		5.0	U	0.22	5.0
1,2-Dichlorobenzene		5.0	U	0.10	5.0
n-Butylbenzene		5.0	U	0.29	5.0
1,2-Dibromo-3-Chloropropane		5.0	U	0.96	5.0
1,2,4-Trichlorobenzene		0.42	J B	0.32	5.0
Hexachlorobutadiene		5.0	U	0.46	5.0
Naphthalene		0.80	J B	0.57	5.0
1,2,3-Trichlorobenzene		0.42	J B	0.37	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4	94		35 - 145
Toluene-d8	100		40 - 175
Bromofluorobenzene	126		30 - 200
1,2-Dichlorobenzene-d4	94		20 - 185

Analytical Data

Client: Cardno ATC

Job Number: 200-14287-1

Client Sample ID: S-01

Lab Sample ID: 200-14287-1

Client Matrix: Solid

% Moisture: 15.9

Date Sampled: 12/17/2012 1112

Date Received: 12/19/2012 1530

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	200-50263	Instrument ID:	GC1031-F
Prep Method:	3550C	Prep Batch:	200-50113	Initial Weight/Volume:	29.83 g
Dilution:	3.0			Final Weight/Volume:	2000 uL
Analysis Date:	01/04/2013 1418			Injection Volume:	1 uL
Prep Date:	12/31/2012 0939			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		120		3.6	24

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	88		40 - 125

Analytical Data

Job Number: 200-14287-1

Client: Cardno ATC

Client Sample ID: S-02

Lab Sample ID: 200-14287-2

Client Matrix: Solid

% Moisture: 17.7

Date Sampled: 12/17/2012 1112

Date Received: 12/19/2012 1530

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	200-50263	Instrument ID:	GC1031-F
Prep Method:	3550C	Prep Batch:	200-50113	Initial Weight/Volume:	30.00 g
Dilution:	5.0			Final Weight/Volume:	2000 uL
Analysis Date:	01/04/2013 1504			Injection Volume:	1 uL
Prep Date:	12/31/2012 0939			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Diesel Range Organics [C10-C28]		170		6.1	41

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	102		40 - 125

**Analytical Data**

Job Number: 200-14287-1

Client: Cardno ATC

Client Sample ID: S-03

Lab Sample ID: 200-14287-3

Client Matrix: Solid

% Moisture: 15.8

Date Sampled: 12/17/2012 1119

Date Received: 12/19/2012 1530

---

**7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analysis Method: 7471B

Prep Method: 7471B

Dilution: 1.0

Analysis Date: 12/28/2012 1249

Prep Date: 12/26/2012 1600

Analysis Batch: 200-50205

Prep Batch: 200-50058

Instrument ID: MEPCV3 II

Lab File ID: 122812AA.PRN

Initial Weight/Volume: 0.33 g

Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hg		0.083	B	0.0024	0.036

**Analytical Data**

Client: Cardno ATC

Job Number: 200-14287-1

Client Sample ID: S-04

Lab Sample ID: 200-14287-4

Date Sampled: 12/17/2012 1119

Client Matrix: Solid

% Moisture: 13.3

Date Received: 12/19/2012 1530

---

**7471B Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)**

Analysis Method: 7471B

Analysis Batch: 200-50205

Instrument ID: MEPCV3 II

Prep Method: 7471B

Prep Batch: 200-50058

Lab File ID: 122812AA.PRN

Dilution: 1.0

Initial Weight/Volume: 0.33 g

Analysis Date: 12/28/2012 1256

Final Weight/Volume: 50 mL

Prep Date: 12/26/2012 1600

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Hg		0.054	B	0.0023	0.035

### Analytical Data

Client: Cardno ATC

Job Number: 200-14287-1

Client Sample ID: S-05

Lab Sample ID: 200-14287-5

Date Sampled: 12/17/2012 1126

Client Matrix: Solid

% Moisture: 16.0

Date Received: 12/19/2012 1530

#### 6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	200-50092	Instrument ID:	METICP7
Prep Method:	3050B	Prep Batch:	200-50062	Lab File ID:	122912-01.txt
Dilution:	1.0			Initial Weight/Volume:	1.35 g
Analysis Date:	12/29/2012 0156			Final Weight/Volume:	100 mL
Prep Date:	12/28/2012 0900				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.54	J	0.43	5.3
Arsenic		2.5		0.49	0.88
Beryllium		0.38	J	0.028	0.44
Cadmium		0.45		0.069	0.44
Chromium		19.3		0.097	0.88
Copper		56.4		0.19	2.2
Lead		62.1		0.39	0.88
Nickel		20.1		0.26	3.5
Selenium		3.1	U	0.77	3.1
Silver		0.88	U	0.11	0.88
Thallium		2.2	U	0.36	2.2
Zinc		101		0.49	1.8

### Analytical Data

Client: Cardno ATC

Job Number: 200-14287-1

Client Sample ID: S-06

Lab Sample ID: 200-14287-6

Client Matrix: Solid

% Moisture: 14.5

Date Sampled: 12/17/2012 1126

Date Received: 12/19/2012 1530

#### 6010C Metals (ICP)

Analysis Method: 6010C

Prep Method: 3050B

Dilution: 1.0

Analysis Date: 12/29/2012 0211

Prep Date: 12/28/2012 0900

Analysis Batch: 200-50092

Prep Batch: 200-50062

Instrument ID: METICP7

Lab File ID: 122912-01.txt

Initial Weight/Volume: 1.90 g

Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.57	J	0.30	3.7
Arsenic		2.0		0.34	0.62
Beryllium		0.34		0.020	0.31
Cadmium		0.59		0.048	0.31
Chromium		18.3		0.068	0.62
Copper		53.1		0.14	1.5
Lead		82.6		0.27	0.62
Nickel		18.4		0.18	2.5
Selenium		2.2	U	0.54	2.2
Silver		0.62	U	0.080	0.62
Thallium		1.5	U	0.25	1.5
Zinc		127		0.34	1.2

**Analytical Data**

Client: Cardno ATC

Job Number: 200-14287-1

---

**General Chemistry**

Client Sample ID: S-01

Lab Sample ID: 200-14287-1

Client Matrix: Solid

Date Sampled: 12/17/2012 1112

Date Received: 12/19/2012 1530

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.1		%	0.25	0.25	1.0	Moisture

Analysis Batch: 200-50231      Analysis Date: 01/03/2013 1515      DryWt Corrected: N

**Analytical Data**

Job Number: 200-14287-1

Client: Cardno ATC

---

**General Chemistry**

Client Sample ID: S-02

Date Sampled: 12/17/2012 1112

Lab Sample ID: 200-14287-2

Date Received: 12/19/2012 1530

Client Matrix: Solid

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	82.3		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-50231		Analysis Date: 01/03/2013 1515				DryWt Corrected: N

**Analytical Data**

Client: Cardno ATC

Job Number: 200-14287-1

---

**General Chemistry**

Client Sample ID: S-03

Lab Sample ID: 200-14287-3

Client Matrix: Solid

Date Sampled: 12/17/2012 1119

Date Received: 12/19/2012 1530

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.2		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-50231		Analysis Date: 01/03/2013 1515				DryWt Corrected: N

**Analytical Data**

Client: Cardno ATC

Job Number: 200-14287-1

---

**General Chemistry**

Client Sample ID: S-04

Lab Sample ID: 200-14287-4

Client Matrix: Solid

Date Sampled: 12/17/2012 1119

Date Received: 12/19/2012 1530

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	86.7		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-50231		Analysis Date: 01/03/2013 1515		DryWt Corrected: N			

**Analytical Data**

Client: Cardno ATC

Job Number: 200-14287-1

---

**General Chemistry**

Client Sample ID: S-05

Lab Sample ID: 200-14287-5

Client Matrix: Solid

Date Sampled: 12/17/2012 1126

Date Received: 12/19/2012 1530

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.0		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-50231		Analysis Date: 01/03/2013 1515				DryWt Corrected: N

**Analytical Data**

Job Number: 200-14287-1

Client: Cardno ATC

---

**General Chemistry**

Client Sample ID: S-06

Date Sampled: 12/17/2012 1126

Lab Sample ID: 200-14287-6

Date Received: 12/19/2012 1530

Client Matrix: Solid

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	85.5		%	0.25	0.25	1.0	Moisture
Analysis Batch: 200-50231		Analysis Date: 01/03/2013 1515		DryWt Corrected: N			

**Analytical Data**

Client: Cardno ATC

Job Number: 200-14287-1

---

**General Chemistry**

Client Sample ID: S-07

Lab Sample ID: 200-14287-7

Client Matrix: Solid

Date Sampled: 12/18/2012 1100

Date Received: 12/19/2012 1530

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	84.2		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-50565		Analysis Date: 01/11/2013 1433				DryWt Corrected: N

**Analytical Data**

Client: Cardno ATC

Job Number: 200-14287-1

---

**General Chemistry**

Client Sample ID: S-08

Lab Sample ID: 200-14287-8

Client Matrix: Solid

Date Sampled: 12/18/2012 1101

Date Received: 12/19/2012 1530

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Solids	86.7		%	0.25	0.25	1.0	Moisture

Analysis Batch: 200-50565      Analysis Date: 01/11/2013 1433      DryWt Corrected: N

## DATA REPORTING QUALIFIERS

Client: Cardno ATC

Job Number: 200-14287-1

Lab Section	Qualifier	Description
GC/MS VOA	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time
GC Semi VOA	U	Indicates the analyte was analyzed for but not detected.
Metals	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

# QUALITY CONTROL RESULTS

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Prep Batch: 200-49811</b>					
200-14287-7	S-07	T	Solid	5035	
200-14287-8	S-08	T	Solid	5035	
<b>Prep Batch: 200-49812</b>					
200-14287-8	S-08	T	Solid	5035	
<b>Prep Batch: 200-50119</b>					
LCS 200-50119/6-A	Lab Control Sample	T	Solid	5035	
LCS 200-50119/7-A	Lab Control Sample	T	Solid	5035	
MB 200-50119/1-A	Method Blank	T	Solid	5035	
MB 200-50119/2-A	Method Blank	T	Solid	5035	
<b>Analysis Batch:200-50167</b>					
LCS 200-50119/6-A	Lab Control Sample	T	Solid	8260B	200-50119
MB 200-50119/1-A	Method Blank	T	Solid	8260B	200-50119
200-14287-7	S-07	T	Solid	8260B	200-49811
<b>Analysis Batch:200-50187</b>					
LCS 200-50187/3	Lab Control Sample	T	Solid	8260B	
MB 200-50187/5	Method Blank	T	Solid	8260B	
200-14287-8	S-08	T	Solid	8260B	200-49812
<b>Analysis Batch:200-50254</b>					
LCS 200-50119/7-A	Lab Control Sample	T	Solid	8260B	200-50119
MB 200-50119/2-A	Method Blank	T	Solid	8260B	200-50119
200-14287-8	S-08	T	Solid	8260B	200-49811

**Report Basis**

T = Total

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 200-50113</b>					
LCS 200-50113/2-A	Lab Control Sample	T	Solid	3550C	
MB 200-50113/1-A	Method Blank	T	Solid	3550C	
200-14287-1	S-01	T	Solid	3550C	
200-14287-2	S-02	T	Solid	3550C	
<b>Analysis Batch:200-50263</b>					
LCS 200-50113/2-A	Lab Control Sample	T	Solid	8015B	200-50113
MB 200-50113/1-A	Method Blank	T	Solid	8015B	200-50113
200-14287-1	S-01	T	Solid	8015B	200-50113
200-14287-2	S-02	T	Solid	8015B	200-50113

#### Report Basis

T = Total

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Metals</b>					
<b>Prep Batch: 200-50058</b>					
LCS 200-50058/12-A	Lab Control Sample	T	Solid	7471B	
MB 200-50058/11-A	Method Blank	T	Solid	7471B	
200-14287-3	S-03	T	Solid	7471B	
200-14287-3DU	Duplicate	T	Solid	7471B	
200-14287-3MS	Matrix Spike	T	Solid	7471B	
200-14287-4	S-04	T	Solid	7471B	
<b>Prep Batch: 200-50062</b>					
LCS 200-50062/2-A	Lab Control Sample	T	Solid	3050B	
MB 200-50062/1-A	Method Blank	T	Solid	3050B	
200-14287-5	S-05	T	Solid	3050B	
200-14287-6	S-06	T	Solid	3050B	
<b>Analysis Batch:200-50092</b>					
LCS 200-50062/2-A	Lab Control Sample	T	Solid	6010C	200-50062
MB 200-50062/1-A	Method Blank	T	Solid	6010C	200-50062
200-14287-5	S-05	T	Solid	6010C	200-50062
200-14287-6	S-06	T	Solid	6010C	200-50062
<b>Analysis Batch:200-50205</b>					
LCS 200-50058/12-A	Lab Control Sample	T	Solid	7471B	200-50058
MB 200-50058/11-A	Method Blank	T	Solid	7471B	200-50058
200-14287-3	S-03	T	Solid	7471B	200-50058
200-14287-3DU	Duplicate	T	Solid	7471B	200-50058
200-14287-3MS	Matrix Spike	T	Solid	7471B	200-50058
200-14287-4	S-04	T	Solid	7471B	200-50058

**Report Basis**

T = Total

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>General Chemistry</b>					
<b>Analysis Batch:200-50231</b>					
200-14287-1	S-01	T	Solid	Moisture	
200-14287-2	S-02	T	Solid	Moisture	
200-14287-3	S-03	T	Solid	Moisture	
200-14287-4	S-04	T	Solid	Moisture	
200-14287-5	S-05	T	Solid	Moisture	
200-14287-6	S-06	T	Solid	Moisture	
<b>Analysis Batch:200-50565</b>					
200-14287-7	S-07	T	Solid	Moisture	
200-14287-8	S-08	T	Solid	Moisture	

#### Report Basis

T = Total

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

### Surrogate Recovery Report

#### 8260B Volatile Organic Compounds (GC/MS)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DCZ %Rec
200-14287-8	S-08	94	100	126	94
MB 200-50187/5		94	94	96	95
LCS 200-50187/3		93	94	93	91

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4	35-145
TOL = Toluene-d8	40-175
BFB = Bromofluorobenzene	30-200
DCZ = 1,2-Dichlorobenzene-d4	20-185

## Quality Control Results

Job Number: 200-14287-1

Client: Cardno ATC

### Surrogate Recovery Report

#### 8260B Volatile Organic Compounds (GC/MS)

##### Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DCZ %Rec
200-14287-7	S-07	94	96	92	89
200-14287-8	S-08	97	95	94	86
MB 200-50119/1-A		92	92	91	87
MB 200-50119/2-A		95	94	94	87
LCS 200-50119/6-A		93	95	90	86
LCS 200-50119/7-A		94	96	95	88

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4	80-120
TOL = Toluene-d8	80-120
BFB = Bromofluorobenzene	80-125
DCZ = 1,2-Dichlorobenzene-d4	75-120

**Quality Control Results**

Client: Cardno ATC

Job Number: 200-14287-1

**Surrogate Recovery Report**

**8015B Diesel Range Organics (DRO) (GC)**

**Client Matrix: Solid**

Lab Sample ID	Client Sample ID	OTPH1 %Rec
200-14287-1	S-01	88
200-14287-2	S-02	102
MB 200-50113/1-A		86
LCS 200-50113/2-A		91

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	40-125

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50119**

**Method: 8260B  
Preparation: 5035**

Lab Sample ID: MB 200-50119/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/31/2012 1300  
Prep Date: 12/31/2012 1051  
Leach Date: N/A

Analysis Batch: 200-50167  
Prep Batch: 200-50119  
Leach Batch: N/A  
Units: ug/Kg

Instrument ID: Li  
Lab File ID: llic07.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	100	U	21	100
Chloromethane	100	U	26	100
Vinyl chloride	100	U	20	100
Bromomethane	100	U	25	100
Chloroethane	100	U	15	100
Trichlorofluoromethane	100	U	13	100
1,1-Dichloroethene	100	U	22	100
Freon TF	100	U	18	100
Acetone	500	U	89	500
Methyl iodide	100	U	7.4	100
Carbon disulfide	100	U	16	100
Methyl acetate	100	U	21	100
Methylene Chloride	100	U	27	100
trans-1,2-Dichloroethene	100	U	20	100
1,2-Dichloroethene, Total	100	U	18	100
Methyl t-butyl ether	100	U	18	100
1,1-Dichloroethane	100	U	20	100
Vinyl acetate	100	U	44	100
2,2-Dichloropropane	100	U	22	100
cis-1,2-Dichloroethene	100	U	18	100
2-Butanone	500	U	86	500
Bromochloromethane	100	U	19	100
Tetrahydrofuran	1400	U	220	1400
Chloroform	100	U	19	100
1,1,1-Trichloroethane	100	U	20	100
Cyclohexane	100	U	20	100
1,1-Dichloropropene	100	U	20	100
Carbon tetrachloride	100	U	15	100
Isobutyl alcohol	5000	U	930	5000
Benzene	100	U	21	100
1,2-Dichloroethane	100	U	17	100
Trichloroethene	100	U	17	100
Methylcyclohexane	100	U	18	100
1,2-Dichloropropane	100	U	19	100
Dibromomethane	100	U	19	100
1,4-Dioxane	5000	U	1100	5000
Bromodichloromethane	100	U	19	100
2-Chloroethyl vinyl ether	100	U	17	100
cis-1,3-Dichloropropene	100	U	18	100
4-Methyl-2-pentanone	500	U	110	500
Toluene	100	U	20	100
trans-1,3-Dichloropropene	100	U	17	100
1,1,2-Trichloroethane	100	U	19	100
Tetrachloroethene	100	U	20	100
1,3-Dichloropropane	100	U	16	100

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50119**

**Method: 8260B  
Preparation: 5035**

Lab Sample ID: MB 200-50119/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/31/2012 1300  
Prep Date: 12/31/2012 1051  
Leach Date: N/A

Analysis Batch: 200-50167  
Prep Batch: 200-50119  
Leach Batch: N/A  
Units: ug/Kg

Instrument ID: Li  
Lab File ID: liic07.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
2-Hexanone	500	U	77	500
Dibromochloromethane	100	U	16	100
1,2-Dibromoethane	100	U	19	100
Chlorobenzene	100	U	20	100
1,1,1,2-Tetrachloroethane	100	U	20	100
Ethylbenzene	100	U	20	100
m&p-Xylene	100	U	37	100
o-Xylene	100	U	21	100
Xylenes, Total	100	U	21	100
Styrene	100	U	17	100
Bromoform	100	U	17	100
Isopropylbenzene	100	U	19	100
Bromobenzene	100	U	20	100
1,1,2,2-Tetrachloroethane	100	U	18	100
1,2,3-Trichloropropane	100	U	18	100
n-Propylbenzene	100	U	20	100
2-Chlorotoluene	100	U	22	100
4-Chlorotoluene	100	U	22	100
1,3,5-Trimethylbenzene	100	U	20	100
tert-Butylbenzene	100	U	18	100
1,2,4-Trimethylbenzene	100	U	18	100
sec-Butylbenzene	100	U	19	100
1,3-Dichlorobenzene	100	U	19	100
4-Isopropyltoluene	100	U	19	100
1,4-Dichlorobenzene	100	U	19	100
1,2-Dichlorobenzene	100	U	20	100
n-Butylbenzene	100	U	19	100
1,2-Dibromo-3-Chloropropane	100	U	17	100
1,2,4-Trichlorobenzene	100	U	20	100
Hexachlorobutadiene	100	U	16	100
Naphthalene	100	U	15	100
1,2,3-Trichlorobenzene	100	U	19	100

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	92	80 - 120
Toluene-d8	92	80 - 120
Bromofluorobenzene	91	80 - 125
1,2-Dichlorobenzene-d4	87	75 - 120

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50119**

**Method: 8260B  
Preparation: 5035**

Lab Sample ID: MB 200-50119/2-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 01/03/2013 0023  
 Prep Date: 12/31/2012 1051  
 Leach Date: N/A

Analysis Batch: 200-50254  
 Prep Batch: 200-50119  
 Leach Batch: N/A  
 Units: ug/Kg

Instrument ID: Li  
 Lab File ID: liif07.d  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	100	U	21	100
Chloromethane	100	U	26	100
Vinyl chloride	100	U	20	100
Bromomethane	100	U	25	100
Chloroethane	100	U	15	100
Trichlorofluoromethane	100	U	13	100
1,1-Dichloroethene	100	U	22	100
Freon TF	100	U	18	100
Acetone	500	U	89	500
Methyl iodide	100	U	7.4	100
Carbon disulfide	100	U	16	100
Methyl acetate	100	U	21	100
Methylene Chloride	100	U	27	100
trans-1,2-Dichloroethene	100	U	20	100
1,2-Dichloroethene, Total	100	U	18	100
Methyl t-butyl ether	100	U	18	100
1,1-Dichloroethane	100	U	20	100
Vinyl acetate	100	U	44	100
2,2-Dichloropropane	100	U	22	100
cis-1,2-Dichloroethene	100	U	18	100
2-Butanone	500	U	86	500
Bromochloromethane	100	U	19	100
Tetrahydrofuran	1400	U	220	1400
Chloroform	100	U	19	100
1,1,1-Trichloroethane	100	U	20	100
Cyclohexane	100	U	20	100
1,1-Dichloropropene	100	U	20	100
Carbon tetrachloride	100	U	15	100
Isobutyl alcohol	5000	U	930	5000
Benzene	100	U	21	100
1,2-Dichloroethane	100	U	17	100
Trichloroethene	100	U	17	100
Methylcyclohexane	100	U	18	100
1,2-Dichloropropane	100	U	19	100
Dibromomethane	100	U	19	100
1,4-Dioxane	5000	U	1100	5000
Bromodichloromethane	100	U	19	100
2-Chloroethyl vinyl ether	100	U	17	100
cis-1,3-Dichloropropene	100	U	18	100
4-Methyl-2-pentanone	500	U	110	500
Toluene	100	U	20	100
trans-1,3-Dichloropropene	100	U	17	100
1,1,2-Trichloroethane	100	U	19	100
Tetrachloroethene	100	U	20	100
1,3-Dichloropropane	100	U	16	100

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50119**

**Method: 8260B  
Preparation: 5035**

Lab Sample ID: MB 200-50119/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 01/03/2013 0023  
Prep Date: 12/31/2012 1051  
Leach Date: N/A

Analysis Batch: 200-50254  
Prep Batch: 200-50119  
Leach Batch: N/A  
Units: ug/Kg

Instrument ID: L.i  
Lab File ID: liif07.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Result	Qual	MDL	RL
2-Hexanone	500	U	77	500
Dibromochloromethane	100	U	16	100
1,2-Dibromoethane	100	U	19	100
Chlorobenzene	100	U	20	100
1,1,1,2-Tetrachloroethane	100	U	20	100
Ethylbenzene	100	U	20	100
m&p-Xylene	100	U	37	100
o-Xylene	100	U	21	100
Xylenes, Total	100	U	21	100
Styrene	100	U	17	100
Bromoform	100	U	17	100
Isopropylbenzene	100	U	19	100
Bromobenzene	100	U	20	100
1,1,2,2-Tetrachloroethane	100	U	18	100
1,2,3-Trichloropropane	100	U	18	100
n-Propylbenzene	100	U	20	100
2-Chlorotoluene	100	U	22	100
4-Chlorotoluene	100	U	22	100
1,3,5-Trimethylbenzene	100	U	20	100
tert-Butylbenzene	100	U	18	100
1,2,4-Trimethylbenzene	100	U	18	100
sec-Butylbenzene	100	U	19	100
1,3-Dichlorobenzene	100	U	19	100
4-Isopropyltoluene	100	U	19	100
1,4-Dichlorobenzene	100	U	19	100
1,2-Dichlorobenzene	100	U	20	100
n-Butylbenzene	100	U	19	100
1,2-Dibromo-3-Chloropropane	100	U	17	100
1,2,4-Trichlorobenzene	100	U	20	100
Hexachlorobutadiene	100	U	16	100
Naphthalene	100	U	15	100
1,2,3-Trichlorobenzene	100	U	19	100

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	95	80 - 120
Toluene-d8	94	80 - 120
Bromofluorobenzene	94	80 - 125
1,2-Dichlorobenzene-d4	87	75 - 120

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Lab Control Sample - Batch: 200-50119**

**Method: 8260B  
Preparation: 5035**

Lab Sample ID: LCS 200-50119/6-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/31/2012 1123  
Prep Date: 12/31/2012 1051  
Leach Date: N/A

Analysis Batch: 200-50167  
Prep Batch: 200-50119  
Leach Batch: N/A  
Units: ug/Kg

Instrument ID: L.i  
Lab File ID: llic04.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	2500	1840	74	35 - 125	
Chloromethane	2500	1900	76	65 - 120	
Vinyl chloride	2500	2370	95	80 - 130	
Bromomethane	2500	1320	53	40 - 120	
Chloroethane	2500	1140	46	40 - 120	
Trichlorofluoromethane	2500	1510	60	40 - 120	
1,1-Dichloroethene	2500	2760	110	80 - 120	
Freon TF	2500	2370	95	70 - 120	
Acetone	12500	14900	119	15 - 200	
Methyl iodide	2500	2230	89	45 - 150	
Carbon disulfide	2500	2370	95	80 - 120	
Methyl acetate	2500	2060	83	70 - 120	
Methylene Chloride	2500	2560	102	80 - 120	
trans-1,2-Dichloroethene	2500	2620	105	80 - 125	
Methyl t-butyl ether	2500	2490	100	80 - 120	
1,1-Dichloroethane	2500	2570	103	80 - 120	
Vinyl acetate	2500	3080	123	80 - 200	
2,2-Dichloropropane	2500	2650	106	80 - 120	
cis-1,2-Dichloroethene	2500	2510	100	80 - 125	
2-Butanone	12500	14500	116	60 - 170	
Bromochloromethane	2500	2230	89	80 - 130	
Tetrahydrofuran	35000	35800	102	80 - 120	
Chloroform	2500	2460	98	75 - 120	
1,1,1-Trichloroethane	2500	2570	103	75 - 120	
Cyclohexane	2500	2650	106	80 - 120	
1,1-Dichloropropene	2500	2590	104	80 - 125	
Carbon tetrachloride	2500	2550	102	75 - 120	
Isobutyl alcohol	125000	123000	99	80 - 130	
Benzene	2500	2480	99	80 - 125	
1,2-Dichloroethane	2500	2450	98	70 - 120	
Trichloroethene	2500	2410	96	75 - 120	
Methylcyclohexane	2500	2630	105	80 - 120	
1,2-Dichloropropane	2500	2420	97	80 - 125	
Dibromomethane	2500	2370	95	75 - 120	
1,4-Dioxane	125000	142000	113	75 - 140	
Bromodichloromethane	2500	2350	94	80 - 120	
2-Chloroethyl vinyl ether	2500	2330	93	80 - 125	
cis-1,3-Dichloropropene	2500	2520	101	80 - 125	
4-Methyl-2-pentanone	12500	12100	97	80 - 125	
Toluene	2500	2480	99	80 - 120	
trans-1,3-Dichloropropene	2500	2420	97	80 - 120	

Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

Lab Control Sample - Batch: 200-50119

Method: 8260B  
Preparation: 5035

Lab Sample ID: LCS 200-50119/6-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/31/2012 1123  
Prep Date: 12/31/2012 1051  
Leach Date: N/A

Analysis Batch: 200-50167  
Prep Batch: 200-50119  
Leach Batch: N/A  
Units: ug/Kg

Instrument ID: L.i  
Lab File ID: litc04.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,2-Trichloroethane	2500	2270	91	80 - 125	
Tetrachloroethene	2500	2500	100	80 - 120	
1,3-Dichloropropane	2500	2370	95	80 - 125	
2-Hexanone	12500	13800	110	75 - 150	
Dibromochloromethane	2500	2440	98	80 - 125	
1,2-Dibromoethane	2500	2420	97	80 - 120	
Chlorobenzene	2500	2380	95	80 - 120	
1,1,1,2-Tetrachloroethane	2500	2370	95	80 - 120	
Ethylbenzene	2500	2400	96	80 - 125	
m&p-Xylene	5000	4840	97	80 - 125	
o-Xylene	2500	2410	96	80 - 120	
Styrene	2500	2450	98	80 - 120	
Bromoform	2500	2370	95	80 - 120	
Isopropylbenzene	2500	2390	96	80 - 120	
Bromobenzene	2500	2360	94	80 - 125	
1,1,2,2-Tetrachloroethane	2500	2390	96	80 - 125	
1,2,3-Trichloropropane	2500	2290	92	80 - 120	
n-Propylbenzene	2500	2340	94	80 - 120	
2-Chlorotoluene	2500	2360	94	80 - 125	
4-Chlorotoluene	2500	2360	95	80 - 125	
1,3,5-Trimethylbenzene	2500	2390	95	80 - 120	
tert-Butylbenzene	2500	2360	94	75 - 120	
1,2,4-Trimethylbenzene	2500	2370	95	80 - 120	
sec-Butylbenzene	2500	2410	96	80 - 120	
1,3-Dichlorobenzene	2500	2370	95	80 - 125	
4-Isopropyltoluene	2500	2320	93	75 - 120	
1,4-Dichlorobenzene	2500	2360	94	80 - 125	
1,2-Dichlorobenzene	2500	2340	94	80 - 125	
n-Butylbenzene	2500	2420	97	80 - 120	
1,2-Dibromo-3-Chloropropane	2500	2190	88	70 - 120	
1,2,4-Trichlorobenzene	2500	2300	92	80 - 120	
Hexachlorobutadiene	2500	2510	100	75 - 120	
Naphthalene	2500	2290	92	80 - 130	
1,2,3-Trichlorobenzene	2500	2340	94	80 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	93	80 - 120
Toluene-d8	95	80 - 120
Bromofluorobenzene	90	80 - 125
1,2-Dichlorobenzene-d4	86	75 - 120

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Lab Control Sample - Batch: 200-50119**

**Method: 8260B  
Preparation: 5035**

Lab Sample ID: LCS 200-50119/7-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 01/02/2013 2248  
 Prep Date: 12/31/2012 1051  
 Leach Date: N/A

Analysis Batch: 200-50254  
 Prep Batch: 200-50119  
 Leach Batch: N/A  
 Units: ug/Kg

Instrument ID: L.i  
 Lab File ID: iif04.d  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	2500	1680	67	35 - 125	
Chloromethane	2500	1900	76	65 - 120	
Vinyl chloride	2500	2330	93	80 - 130	
Bromomethane	2500	1380	55	40 - 120	
Chloroethane	2500	1120	45	40 - 120	
Trichlorofluoromethane	2500	1530	61	40 - 120	
1,1-Dichloroethene	2500	2720	109	80 - 120	
Freon TF	2500	2350	94	70 - 120	
Acetone	12500	14300	115	15 - 200	
Methyl iodide	2500	2550	102	45 - 150	
Carbon disulfide	2500	2450	98	80 - 120	
Methyl acetate	2500	2170	87	70 - 120	
Methylene Chloride	2500	2560	102	80 - 120	
trans-1,2-Dichloroethene	2500	2630	105	80 - 125	
Methyl t-butyl ether	2500	2470	99	80 - 120	
1,1-Dichloroethane	2500	2600	104	80 - 120	
Vinyl acetate	2500	3040	122	80 - 200	
2,2-Dichloropropane	2500	2640	106	80 - 120	
cis-1,2-Dichloroethene	2500	2480	99	80 - 125	
2-Butanone	12500	13900	111	60 - 170	
Bromochloromethane	2500	2280	91	80 - 130	
Tetrahydrofuran	35000	34500	98	80 - 120	
Chloroform	2500	2460	99	75 - 120	
1,1,1-Trichloroethane	2500	2560	102	75 - 120	
Cyclohexane	2500	2630	105	80 - 120	
1,1-Dichloropropene	2500	2610	104	80 - 125	
Carbon tetrachloride	2500	2530	101	75 - 120	
Isobutyl alcohol	125000	113000	90	80 - 130	
Benzene	2500	2490	100	80 - 125	
1,2-Dichloroethane	2500	2470	99	70 - 120	
Trichloroethene	2500	2410	96	75 - 120	
Methylcyclohexane	2500	2600	104	80 - 120	
1,2-Dichloropropane	2500	2400	96	80 - 125	
Dibromomethane	2500	2330	93	75 - 120	
1,4-Dioxane	125000	125000	100	75 - 140	
Bromodichloromethane	2500	2340	94	80 - 120	
2-Chloroethyl vinyl ether	2500	2310	92	80 - 125	
cis-1,3-Dichloropropene	2500	2490	100	80 - 125	
4-Methyl-2-pentanone	12500	11600	93	80 - 125	
Toluene	2500	2490	99	80 - 120	
trans-1,3-Dichloropropene	2500	2410	96	80 - 120	

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Lab Control Sample - Batch: 200-50119**

**Method: 8260B  
Preparation: 5035**

Lab Sample ID: LCS 200-50119/7-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 01/02/2013 2248  
Prep Date: 12/31/2012 1051  
Leach Date: N/A

Analysis Batch: 200-50254  
Prep Batch: 200-50119  
Leach Batch: N/A  
Units: ug/Kg

Instrument ID: Li  
Lab File ID: lllf04.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,2-Trichloroethane	2500	2270	91	80 - 125	
Tetrachloroethene	2500	2460	98	80 - 120	
1,3-Dichloropropane	2500	2350	94	80 - 125	
2-Hexanone	12500	13100	105	75 - 150	
Dibromochloromethane	2500	2410	96	80 - 125	
1,2-Dibromoethane	2500	2370	95	80 - 120	
Chlorobenzene	2500	2380	95	80 - 120	
1,1,1,2-Tetrachloroethane	2500	2350	94	80 - 120	
Ethylbenzene	2500	2400	96	80 - 125	
m&p-Xylene	5000	4840	97	80 - 125	
o-Xylene	2500	2380	95	80 - 120	
Styrene	2500	2420	97	80 - 120	
Bromoform	2500	2270	91	80 - 120	
Isopropylbenzene	2500	2470	99	80 - 120	
Bromobenzene	2500	2430	97	80 - 125	
1,1,2,2-Tetrachloroethane	2500	2400	96	80 - 125	
1,2,3-Trichloropropane	2500	2320	93	80 - 120	
n-Propylbenzene	2500	2400	96	80 - 120	
2-Chlorotoluene	2500	2440	97	80 - 125	
4-Chlorotoluene	2500	2440	98	80 - 125	
1,3,5-Trimethylbenzene	2500	2480	99	80 - 120	
tert-Butylbenzene	2500	2450	98	75 - 120	
1,2,4-Trimethylbenzene	2500	2450	98	80 - 120	
sec-Butylbenzene	2500	2490	100	80 - 120	
1,3-Dichlorobenzene	2500	2400	96	80 - 125	
4-Isopropyltoluene	2500	2380	95	75 - 120	
1,4-Dichlorobenzene	2500	2400	96	80 - 125	
1,2-Dichlorobenzene	2500	2400	96	80 - 125	
n-Butylbenzene	2500	2480	99	80 - 120	
1,2-Dibromo-3-Chloropropane	2500	2190	87	70 - 120	
1,2,4-Trichlorobenzene	2500	2280	91	80 - 120	
Hexachlorobutadiene	2500	2450	98	75 - 120	
Naphthalene	2500	2210	88	80 - 130	
1,2,3-Trichlorobenzene	2500	2270	91	80 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	94	80 - 120
Toluene-d8	96	80 - 120
Bromofluorobenzene	95	80 - 125
1,2-Dichlorobenzene-d4	88	75 - 120

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50187**

**Method: 8260B  
Preparation: N/A**

Lab Sample ID: MB 200-50187/5  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 12/28/2012 1159  
 Prep Date: N/A  
 Leach Date: N/A

Analysis Batch: 200-50187  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/Kg

Instrument ID: N.I  
 Lab File ID: nhma05.d  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Dichlorodifluoromethane	5.0	U	0.35	5.0
Chloromethane	5.0	U	0.39	5.0
Vinyl chloride	5.0	U	0.30	5.0
Bromomethane	5.0	U	1.2	5.0
Chloroethane	5.0	U	0.39	5.0
Trichlorofluoromethane	5.0	U	0.27	5.0
1,1-Dichloroethene	5.0	U	0.39	5.0
Freon TF	5.0	U	0.31	5.0
Acetone	5.0	U	2.1	5.0
Methyl iodide	5.0	U	0.65	5.0
Carbon disulfide	5.0	U	0.27	5.0
Methyl acetate	5.0	U	0.84	5.0
Methylene Chloride	5.0	U	0.40	5.0
trans-1,2-Dichloroethene	5.0	U	0.37	5.0
1,2-Dichloroethene, Total	5.0	U	0.35	5.0
Methyl t-butyl ether	5.0	U	0.41	5.0
1,1-Dichloroethane	5.0	U	0.34	5.0
Vinyl acetate	5.0	U	0.67	5.0
2,2-Dichloropropane	5.0	U	0.54	5.0
cis-1,2-Dichloroethene	5.0	U	0.35	5.0
2-Butanone	5.0	U	1.3	5.0
Bromochloromethane	5.0	U	0.33	5.0
Tetrahydrofuran	50	U	7.3	50
Chloroform	5.0	U	0.35	5.0
1,1,1-Trichloroethane	5.0	U	0.31	5.0
Cyclohexane	5.0	U	0.30	5.0
1,1-Dichloropropene	5.0	U	0.26	5.0
Carbon tetrachloride	5.0	U	0.29	5.0
Isobutyl alcohol	250	U	23	250
Benzene	5.0	U	0.32	5.0
1,2-Dichloroethane	5.0	U	0.39	5.0
Trichloroethene	5.0	U	0.36	5.0
Methylcyclohexane	5.0	U	0.26	5.0
1,2-Dichloropropane	5.0	U	0.33	5.0
Dibromomethane	5.0	U	0.34	5.0
1,4-Dioxane	250	U	15	250
Bromodichloromethane	5.0	U	0.36	5.0
2-Chloroethyl vinyl ether	5.0	U	0.23	5.0
cis-1,3-Dichloropropene	5.0	U	0.29	5.0
4-Methyl-2-pentanone	5.0	U	0.50	5.0
Toluene	5.0	U	0.11	5.0
trans-1,3-Dichloropropene	5.0	U	0.29	5.0
1,1,2-Trichloroethane	5.0	U	0.36	5.0
Tetrachloroethene	5.0	U	0.10	5.0
1,3-Dichloropropane	5.0	U	0.46	5.0

Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

Method Blank - Batch: 200-50187

Method: 8260B  
Preparation: N/A

Lab Sample ID: MB 200-50187/5  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/28/2012 1159  
Prep Date: N/A  
Leach Date: N/A

Analysis Batch: 200-50187  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/Kg

Instrument ID: N.i  
Lab File ID: nhma05.d  
Initial Weight/Volume: 5 g  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
2-Hexanone	5.0	U	0.63	5.0
Dibromochloromethane	5.0	U	0.31	5.0
1,2-Dibromoethane	5.0	U	0.41	5.0
Chlorobenzene	5.0	U	0.16	5.0
1,1,1,2-Tetrachloroethane	5.0	U	0.060	5.0
Ethylbenzene	5.0	U	0.070	5.0
m&p-Xylene	5.0	U	0.25	5.0
o-Xylene	5.0	U	0.080	5.0
Xylenes, Total	5.0	U	0.080	5.0
Styrene	5.0	U	0.12	5.0
Bromoform	5.0	U	0.32	5.0
Isopropylbenzene	5.0	U	0.34	5.0
Bromobenzene	5.0	U	0.31	5.0
1,1,1,2-Tetrachloroethane	5.0	U	0.97	5.0
1,2,3-Trichloropropane	5.0	U	0.82	5.0
n-Propylbenzene	5.0	U	0.070	5.0
2-Chlorotoluene	5.0	U	0.35	5.0
4-Chlorotoluene	5.0	U	0.25	5.0
1,3,5-Trimethylbenzene	5.0	U	0.20	5.0
tert-Butylbenzene	5.0	U	0.26	5.0
1,2,4-Trimethylbenzene	5.0	U	0.050	5.0
sec-Butylbenzene	5.0	U	0.25	5.0
1,3-Dichlorobenzene	0.158	J	0.11	5.0
4-Isopropyltoluene	5.0	U	0.090	5.0
1,4-Dichlorobenzene	5.0	U	0.22	5.0
1,2-Dichlorobenzene	5.0	U	0.10	5.0
n-Butylbenzene	5.0	U	0.29	5.0
1,2-Dibromo-3-Chloropropane	5.0	U	0.96	5.0
1,2,4-Trichlorobenzene	0.417	J	0.32	5.0
Hexachlorobutadiene	5.0	U	0.46	5.0
Naphthalene	0.639	J	0.57	5.0
1,2,3-Trichlorobenzene	0.471	J	0.37	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	94	35 - 145
Toluene-d8	94	40 - 175
Bromofluorobenzene	96	30 - 200
1,2-Dichlorobenzene-d4	95	20 - 185

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Lab Control Sample - Batch: 200-50187**

**Method: 8260B  
Preparation: N/A**

Lab Sample ID: LCS 200-50187/3  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 12/28/2012 1059  
 Prep Date: N/A  
 Leach Date: N/A

Analysis Batch: 200-50187  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/Kg

Instrument ID: N.i  
 Lab File ID: nhma03.d  
 Initial Weight/Volume: 5 g  
 Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	50.0	38.1	76	55 - 120	
Chloromethane	50.0	39.0	78	65 - 120	
Vinyl chloride	50.0	46.3	93	75 - 120	
Bromomethane	50.0	34.2	68	60 - 120	
Chloroethane	50.0	42.4	85	75 - 120	
Trichlorofluoromethane	50.0	42.3	85	65 - 120	
1,1-Dichloroethene	50.0	48.8	98	80 - 120	
Freon TF	50.0	44.2	88	65 - 120	
Acetone	125	104	83	70 - 120	
Methyl iodide	50.0	45.4	91	55 - 125	
Carbon disulfide	50.0	45.6	91	65 - 120	
Methyl acetate	50.0	37.4	75	65 - 120	
Methylene Chloride	50.0	48.4	97	75 - 120	
trans-1,2-Dichloroethene	50.0	49.3	99	75 - 125	
Methyl t-butyl ether	50.0	47.8	96	70 - 120	
1,1-Dichloroethane	50.0	47.1	94	70 - 120	
Vinyl acetate	50.0	87.6	175	80 - 185	
2,2-Dichloropropane	50.0	46.9	94	75 - 120	
cis-1,2-Dichloroethene	50.0	48.6	97	75 - 120	
2-Butanone	125	119	95	60 - 130	
Bromochloromethane	50.0	47.1	94	75 - 120	
Tetrahydrofuran	575	575	100	75 - 120	
Chloroform	50.0	47.5	95	80 - 120	
1,1,1-Trichloroethane	50.0	46.7	93	70 - 120	
Cyclohexane	50.0	50.9	102	70 - 120	
1,1-Dichloropropene	50.0	49.0	98	75 - 120	
Carbon tetrachloride	50.0	46.2	92	70 - 120	
Isobutyl alcohol	2500	2660	107	75 - 130	
Benzene	50.0	49.0	98	75 - 125	
1,2-Dichloroethane	50.0	45.5	91	70 - 120	
Trichloroethene	50.0	47.3	95	75 - 120	
Methylcyclohexane	50.0	50.5	101	75 - 120	
1,2-Dichloropropane	50.0	47.2	94	75 - 120	
Dibromomethane	50.0	47.7	95	75 - 120	
1,4-Dioxane	2500	2730	109	75 - 120	
Bromodichloromethane	50.0	46.6	93	75 - 120	
2-Chloroethyl vinyl ether	50.0	41.5	83	55 - 120	
cis-1,3-Dichloropropene	50.0	51.7	103	80 - 120	
4-Methyl-2-pentanone	125	122	97	75 - 130	
Toluene	50.0	48.6	97	80 - 125	
trans-1,3-Dichloropropene	50.0	48.7	97	75 - 120	

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Lab Control Sample - Batch: 200-50187**

**Method: 8260B  
Preparation: N/A**

Lab Sample ID:	LCS 200-50187/3	Analysis Batch:	200-50187	Instrument ID:	N.i
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	nhma03.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	12/28/2012 1059	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,2-Trichloroethane	50.0	47.3	95	75 - 120	
Tetrachloroethene	50.0	48.4	97	80 - 125	
1,3-Dichloropropane	50.0	48.4	97	75 - 120	
2-Hexanone	125	123	98	80 - 120	
Dibromochloromethane	50.0	48.4	97	75 - 120	
1,2-Dibromoethane	50.0	49.5	99	75 - 120	
Chlorobenzene	50.0	49.1	98	80 - 125	
1,1,1,2-Tetrachloroethane	50.0	46.8	94	75 - 120	
Ethylbenzene	50.0	49.0	98	80 - 125	
m&p-Xylene	100	97.4	97	80 - 125	
o-Xylene	50.0	48.3	97	80 - 125	
Styrene	50.0	49.1	98	80 - 125	
Bromoform	50.0	47.6	95	75 - 120	
Isopropylbenzene	50.0	46.8	94	80 - 125	
Bromobenzene	50.0	47.1	94	75 - 120	
1,1,2,2-Tetrachloroethane	50.0	47.2	94	75 - 120	
1,2,3-Trichloropropane	50.0	45.9	92	70 - 120	
n-Propylbenzene	50.0	46.6	93	80 - 125	
2-Chlorotoluene	50.0	46.8	94	80 - 125	
4-Chlorotoluene	50.0	48.1	96	80 - 125	
1,3,5-Trimethylbenzene	50.0	47.4	95	80 - 125	
tert-Butylbenzene	50.0	46.3	93	75 - 120	
1,2,4-Trimethylbenzene	50.0	47.2	94	80 - 125	
sec-Butylbenzene	50.0	47.8	96	80 - 125	
1,3-Dichlorobenzene	50.0	47.7	95	80 - 125	
4-Isopropyltoluene	50.0	46.4	93	75 - 120	
1,4-Dichlorobenzene	50.0	48.4	97	80 - 120	
1,2-Dichlorobenzene	50.0	47.6	95	80 - 125	
n-Butylbenzene	50.0	49.6	99	80 - 125	
1,2-Dibromo-3-Chloropropane	50.0	44.9	90	70 - 120	
1,2,4-Trichlorobenzene	50.0	49.8	100	80 - 125	
Hexachlorobutadiene	50.0	51.3	103	80 - 130	
Naphthalene	50.0	49.3	99	80 - 120	
1,2,3-Trichlorobenzene	50.0	50.1	100	80 - 125	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	93	35 - 145
Toluene-d8	94	40 - 175
Bromofluorobenzene	93	30 - 200
1,2-Dichlorobenzene-d4	91	20 - 185

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50113**

**Method: 8015B  
Preparation: 3550C**

Lab Sample ID: MB 200-50113/1-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 01/04/2013 1247  
Prep Date: 12/31/2012 0939  
Leach Date: N/A

Analysis Batch: 200-50263  
Prep Batch: 200-50113  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: GC1031-F  
Lab File ID: F0010403.D  
Initial Weight/Volume: 30.52 g  
Final Weight/Volume: 2000 uL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Diesel Range Organics [C10-C28]	6.6	U	0.98	6.6

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	86	40 - 125

**Lab Control Sample - Batch: 200-50113**

**Method: 8015B  
Preparation: 3550C**

Lab Sample ID: LCS 200-50113/2-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 01/04/2013 1332  
Prep Date: 12/31/2012 0939  
Leach Date: N/A

Analysis Batch: 200-50263  
Prep Batch: 200-50113  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: GC1031-F  
Lab File ID: F0010404.D  
Initial Weight/Volume: 30.29 g  
Final Weight/Volume: 2000 uL  
Injection Volume: 1 uL  
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Diesel Range Organics [C10-C28]	33.0	30.2	91	35 - 160	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	91	40 - 125

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50062**

**Method: 6010C  
Preparation: 3050B**

Lab Sample ID: MB 200-50062/1-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 12/29/2012 0146  
 Prep Date: 12/28/2012 0900  
 Leach Date: N/A

Analysis Batch: 200-50092  
 Prep Batch: 200-50062  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: METICP7  
 Lab File ID: 122912-01.ttx  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Antimony	6.0	U	0.49	6.0
Arsenic	1.0	U	0.56	1.0
Beryllium	0.50	U	0.032	0.50
Cadmium	0.50	U	0.078	0.50
Chromium	1.0	U	0.11	1.0
Copper	2.5	U	0.22	2.5
Lead	1.0	U	0.44	1.0
Nickel	4.0	U	0.29	4.0
Selenium	3.5	U	0.87	3.5
Silver	1.0	U	0.13	1.0
Thallium	2.5	U	0.41	2.5
Zinc	2.0	U	0.56	2.0

**Lab Control Sample - Batch: 200-50062**

**Method: 6010C  
Preparation: 3050B**

Lab Sample ID: LCS 200-50062/2-A  
 Client Matrix: Solid  
 Dilution: 1.0  
 Analysis Date: 12/29/2012 0151  
 Prep Date: 12/28/2012 0900  
 Leach Date: N/A

Analysis Batch: 200-50092  
 Prep Batch: 200-50062  
 Leach Batch: N/A  
 Units: mg/Kg

Instrument ID: METICP7  
 Lab File ID: 122912-01.ttx  
 Initial Weight/Volume: 1.00 g  
 Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	49.19	98	80 - 120	
Arsenic	24.0	22.81	95	80 - 120	
Beryllium	5.00	4.83	97	80 - 120	
Cadmium	25.0	22.14	89	80 - 120	
Chromium	20.0	19.06	95	80 - 120	
Copper	25.0	23.21	93	80 - 120	
Lead	22.0	20.10	91	80 - 120	
Nickel	50.0	45.69	91	80 - 120	
Selenium	25.0	22.82	91	80 - 120	
Silver	25.0	25.48	102	80 - 120	
Thallium	25.0	22.56	90	80 - 120	
Zinc	50.0	45.87	92	80 - 120	

**Quality Control Results**

Client: Cardno ATC

Job Number: 200-14287-1

**Method Blank - Batch: 200-50058**

**Method: 7471B  
Preparation: 7471B**

Lab Sample ID: MB 200-50058/11-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/28/2012 1245  
Prep Date: 12/26/2012 1600  
Leach Date: N/A

Analysis Batch: 200-50205  
Prep Batch: 200-50058  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: MEPCV3 II  
Lab File ID: 122812AA.PRN  
Initial Weight/Volume: 0.30 g  
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Hg	0.00450	J	0.0022	0.033

**Lab Control Sample - Batch: 200-50058**

**Method: 7471B  
Preparation: 7471B**

Lab Sample ID: LCS 200-50058/12-A  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/28/2012 1247  
Prep Date: 12/26/2012 1600  
Leach Date: N/A

Analysis Batch: 200-50205  
Prep Batch: 200-50058  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: MEPCV3 II  
Lab File ID: 122812AA.PRN  
Initial Weight/Volume: 0.30 g  
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hg	0.167	0.160	96	80 - 120	

**Matrix Spike - Batch: 200-50058**

**Method: 7471B  
Preparation: 7471B**

Lab Sample ID: 200-14287-3  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/28/2012 1254  
Prep Date: 12/26/2012 1600  
Leach Date: N/A

Analysis Batch: 200-50205  
Prep Batch: 200-50058  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: MEPCV3 II  
Lab File ID: 122812AA.PRN  
Initial Weight/Volume: 0.33 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Hg	0.063	0.180	0.221	88	80 - 120	

## Quality Control Results

Client: Cardno ATC

Job Number: 200-14287-1

**Duplicate - Batch: 200-50058**

**Method: 7471B**  
**Preparation: 7471B**

Lab Sample ID: 200-14287-3  
Client Matrix: Solid  
Dilution: 1.0  
Analysis Date: 12/28/2012 1252  
Prep Date: 12/26/2012 1600  
Leach Date: N/A

Analysis Batch: 200-50205  
Prep Batch: 200-50058  
Leach Batch: N/A  
Units: mg/Kg

Instrument ID: MEPCV3 II  
Lab File ID: 122812AA.PRN  
Initial Weight/Volume: 0.36 g  
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Hg	0.063	0.0696	9	20	

TestAmerica Burlington  
 30 Community Drive, Suite 11  
 South Burlington, VT 05403  
 Phone: (802) 850-1980

Chain of Custody Record

File Copy

TestAmerica  
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information  
 Client Contact: Harland Miller  
 Company: CARDNO ATC  
 Address: 171 Commerce St  
 City: W. Water  
 State, Zip: VT 05495  
 Phone: 802 862 1980  
 Email: Harland.Miller@Cardno.com  
 Project Name: St. J Armory  
 Site: St. Johnsbury VT

Sampler: D.P.  
 Phone: 802 862 1980

Lab P/N: Ser 6  
 E-Mail:

Carrier Tracking No(s):

Due Date Requested:  
 TAT Requested (days): Standard

PO #:  
 WO #:  
 Project #: 63.35078.0013  
 SOW #:

Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (G-comp, G-grab)	Matrix (Wet/dry, Sealed, Open/vented, Stripped, A-4)	Field Filtered Sample (Yes or No)	Performance/ASPC (9/13)	Analysis Requested	Field Number of Containers	Special Instructions/Notes:
Pit Drain 1 - TPH	12/17/12	1112	G	S			TPH - 8015 B		S-01
Pit Drain 2 - TPH	12/17/12	1112	G	S			Mercury - 7971 B		S-02
Pit Drain 1 - Mercury	12/17/12	1119	G	S			Vol - 8260 B		S-03
Pit Drain 2 - Mercury	12/17/12	1119	G	S					S-04
Pit Drain 1 - Metals	12/17/12	1126	G	S					S-05
Pit Drain 2 - Metals	12/17/12	1126	G	S					S-06
Pit Drain 1 - VOCs	12/18/12	1000	G	S					S-07
Pit Drain 2 - VOCs	12/18/12	1101	G	S					S-08

Preservation Codes:  
 A - HCl  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - Nitric Acid  
 F - MeOH  
 G - Amicarb Acid  
 H - Acetic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDA  
 Other:

Special Instructions/Notes:  
 S-01  
 S-02  
 S-03  
 S-04  
 S-05  
 S-06  
 S-07  
 S-08

Sample Disposal (A Fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Relinquished by: [Signature] Date/Time: 12/10/12 1  
 Relinquished by: [Signature] Date/Time: \_\_\_\_\_  
 Relinquished by: [Signature] Date/Time: \_\_\_\_\_

Company: Cardno  
 Company: \_\_\_\_\_  
 Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No  
 Custody Seal No.:

Chain of Custody Record

Client Information		Sampler: <b>D.P.</b>	Lab PWT: <b>Sent</b>	Carrier Tracking No(s):	COC No:
Client Contact: <b>Harland Miller</b>		Phone: <b>802 862 1980</b>	E-Mail:		Page:
Company: <b>CARDNO ATC</b>		Duo Date Requested:	Analysis Requested		
Address: <b>171 Corners St</b>		TAT Requested (days): <b>Standard</b>	Total Number of Containers		
City: <b>Williston</b>		PO #:	Perform MS/MSD (Yes or No)		
State, Zip: <b>VT 05495</b>		W/O #:	Field Filtered Sample (Yes or No)		
Phone: <b>802 862 1980</b>		Project #: <b>63-35078-0013</b>	Preservation Codes:		
Email: <b>Harland.Miller@Cardno.com</b>		SSOW#:	A - HCL B - NaOH C - Zn-Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Project Name: <b>St. J Armory</b>		Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (W=Water, S=solid, O=Organic, B=Trace, A=Air)
Site: <b>St. Johnsbury VT</b>		12/17/12	1112	G	S
		12/17/12	1112	G	S
		12/17/12	1119	G	S
		12/17/12	1119	G	S
		12/17/12	1126	G	S
		12/18/12	1100	G	S
		12/18/12	1101	G	S
Special Instructions/Note: <b>Re attached</b>					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Retrieved by:		Date/Time: <b>12/18/12 1</b>	Company: <b>Cardno</b>		
Retrieved by:		Date/Time:	Company:		
Retrieved by:		Date/Time:	Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks:					