



## **LIMITED HAZARDOUS MATERIALS REPORT**

**Naval Facilities Engineering Command (NAVFAC)  
Building 446 HVAC Replacement  
Building 446 CHI, Surface Warfare Officers School  
(SWOS)  
Naval Station Newport  
Newport, RI**

**STV Project Number 3016436  
Contract N40085-11-D7211  
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## EXECUTIVE SUMMARY

On November 25<sup>th</sup>, 2013 and June 30<sup>th</sup>, 2014, STV Incorporated (STV) conducted a limited hazardous materials survey including asbestos-containing materials (ACM), lead-containing paint (LCP), Polychlorinated Biphenyls (PCB) caulk and universal waste on the first and second floors and on the existing roof heating, ventilation and air conditioning system of accessible areas of Building 446 Surface Warfare Officers School, located at Naval Station Newport, hereinafter referred to as the Site. The purpose of the survey was to identify, locate, sample, and assess the condition of accessible hazardous materials that may be impacted by the proposed HVAC replacement project.

The analytical results of the samples collected during the limited asbestos survey and information provided in prior reports indicate that the following building materials that may be impacted by the scope of work were confirmed or assumed to contain asbestos greater than one percent (>1%) in content:

1. Black Flashing
2. Black Pitch Pocket
3. Ceiling tiles
4. Floor tiles and associated mastic
5. Roofing Debris on top of Ceiling Tiles
6. Wallboard/Joint Compound
7. Red Duct Seam Sealant
8. Shower Ceiling Coating

Asbestos containing materials (ACM) must be properly removed by a licensed contractor prior to construction activities in accordance with all federal, state and local regulations. Contractors and employees working in this building should be made aware of the possibility that concealed ACM may be found during demolition. They should be advised not to disturb known or suspect ACM without owner approval. Any concealed building materials discovered during demolition activities, which are suspected to contain asbestos, should be sampled and analyzed to confirm the presence or absence of asbestos prior to disturbing.

A limited lead-containing paint survey was performed. The prior reports indicate that building materials are positive for the presence of lead including steel beams, sheetrock walls and CMU walls. All work that affects lead-containing paint should be performed in strict accordance with United Facilities Guide Specifications (UFGS) specifications section 02 83 13, Occupational Safety and Health Administration (OSHA) Lead in Construction Standard 29 CFR 1926.62, federal, state and local laws.

Universal wastes at the site that will be impacted by the scope of work includes thermostats. The universal waste should be removed and disposed in accordance with design drawings and Specification Section 028416, Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury.

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One (1) sample of caulk was collected and analyzed for PCB concentration. The sampled caulk had 12 ppm PCBs and is within the PCB-regulated category. PCB Regulated caulk should be managed in accordance with the Toxic Substances Control Act (TSCA), the Environmental Protection Agency (EPA), state and local regulations.

## 1.0 BACKGROUND

On November 25<sup>th</sup>, 2013, and June 30<sup>th</sup>, 2014 STV Incorporated (STV) conducted a limited hazardous materials survey including asbestos-containing materials (ACM), lead-containing paint (LCP), Polychlorinated Biphenyls (PCB) containing materials and universal waste on the first and second floors and on the existing roof heating, ventilation and air conditioning system of building 446 Surface Warfare Officers School, located at Naval Station Newport, hereinafter referred to as the Site. The corridors, several rooms that will be impacted by the proposed construction efforts and the roof with its ventilation and chilling systems and supporting dunnage were also studied and sampled for the presence of asbestos-containing materials. The purpose of the survey was to identify, locate, sample, and assess the condition of accessible building materials that were suspected of containing asbestos, Lead-Containing Paint, PCBs and universal waste that may be impacted by the proposed HVAC replacement project.

The survey was performed by STV representative Douglas Glorie (Certified Rhode Island Asbestos Program Inspector and Designer Certification Number AAC-0672) and Mikhail Natanov (Certified AHERA Inspector 621078).

A Copy of the inspector's certifications is presented in **Appendix A**.

## **2.0 DESCRIPTION OF FACILITY**

Building 446, located at the Naval Station Newport, Newport, RI, comprises a support function for the Surface Warfare Officers School (SWOS). It is currently occupied by the NAVSTA personnel. The Naval Station Newport is home to 50 Navy, Marine Corps, Coast Guard and US Army Reserve commands and activities. Newport is the Navy's premier site for training officers, officer candidates, senior enlisted personnel and midshipman candidates. The Surface Warfare Officers School Command is one of its educational institutions. This command trains surface warfare officers from the time they are commissioned until they have command at sea.

The Naval Facilities Engineering Command (NAVFAC) requires the demolition of AHU-4 and AHU-5. In addition, all classroom unit ventilator units, abandoned chiller, condensing units, refrigerant piping, controls, exhaust fans and associated equipment are to be demolished or removed. Since the premises are occupied year-round, construction efforts will be conducted in phases. This scope of services is outlined in the Project Statement of Architect-Engineer Services dated May 8<sup>th</sup> 2013.

### 3.0 ACM SAMPLING AND ANALYTICAL PROTOCOL

#### 3.1 Survey Procedures - General

The Site was inspected for the presence of suspect asbestos containing materials that may contain more than one percent asbestos. The purpose of this inspection was to confirm the location and quantity of asbestos containing materials (ACMs) that may be impacted by the proposed project. The inspection included the interior and exterior of the building and was conducted without destructive sampling procedures. ACMs are divided into three main categories: Surfacing Materials, Thermal System Insulation, and Miscellaneous Materials. All of the suspect materials identified were described and categorized into homogeneous areas (HAs). An HA consists of all identified material found in various locations in a building that are identical in color, appearance, pattern, texture, and date of installation.

The asbestos survey was conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA) guidelines (EPA Regulation 40 CFR Part 763). The number of samples collected was dependent upon the homogeneous area category and the quantity of material present, using a minimum number of samples, which met the sampling criteria found in 29 CFR 1926.1101 as follows:

AHERA GUIDELINES FOR DETERMINING THE NUMBER OF SAMPLES TO COLLECT		
HA CATEGORY	HA SIZE	SAMPLES REQUIRED
Surfacing Materials " " " "	<1,000 SF	3
	1,000-5,000 SF	5
	>5,000 SF	7 or more
Thermal System Insulation	< 6 SF or LF of patched	1
" "	< 6 SF or LF of non-patched	Per AHERA, these materials must be sampled "in a manner sufficient to determine whether or not they contain asbestos", typically 3 samples based upon inspector judgment.
" "	> 6 SF or LF	Per AHERA, these materials must be sampled "in a manner sufficient to determine whether or not they contain asbestos", typically 3 samples based upon inspector judgment.
Miscellaneous Materials (Ex: Floor and Ceiling tiles)	No Stipulation	Per AHERA, these materials must be sampled "in a manner sufficient to determine whether or not they contain asbestos".

SF = Square feet  
 LF = Linear feet

## 3.2 Sampling Protocol

### 3.2.1 Choosing Sample Locations

Samples of suspect miscellaneous materials were collected in a randomly distributed manner sufficient to determine whether the materials were asbestos containing. No samples were collected from any HA where the inspector determined that the material was non-ACM (such as thermal system insulation that was obviously fibrous glass, foam glass, or rubber).

### 3.2.2 Sampling Methods

Samples were obtained with tools designed to penetrate a material without creating excessive dust. A utility knife, chisel, and hammer were utilized, rather than scratching a sample from the surface of suspected materials, in an effort to obtain a sample that was representative of all layers of the material. The area was pre-wetted to reduce fiber generation during the sampling process. Where practical, a small, broken piece of the material was found and used as a sample.

STV sampling procedures incorporated the use of plastic zip lock bags labeled in a unique numbering sequence to store the bulk samples. Information about bulk samples, including the sample number and material description, were noted on the chain-of-custody sheets as each sample was collected. Analytical results and laboratory chain-of-custody sheets are included in **Appendix B**. A Sample Location Plan is presented in **Appendix C**.

## 3.3 Analytical Protocol

Bulk samples of suspect ACM were collected at the Site and laboratory analysis for asbestos was analyzed at EMSL Analytical, Inc.'s 307 West 38<sup>th</sup> Street New York, NY 10018 location and at their headquarters located at 200 Route 130 North, Cinnaminson, New Jersey, 08077. The analysis was conducted utilizing Polarized Light Microscopy (PLM) methodology. The laboratory is accredited for PLM analysis by both the American Industrial Hygiene Association (AIHA) and the National Voluntary Laboratory Accreditation Program (NVLAP) (NVLAP Laboratory Code 101048-0, 101048-9 & AIHA Laboratory ID: 100194, 102581).

Bulk samples of suspect ACM were analyzed using PLM coupled with dispersion staining, as described in EPA Regulation 40 CFR Part 763 and the National Emissions Standard for Hazardous Air Pollutants (NESHAP). NESHAP is the standard industry protocol for the determination of asbestos in building materials. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The color displays that result are compared to a standardized atlas whereby the specific variety of asbestos is determined.

It should also be recognized that PLM is primarily a qualitative identification method whereby asbestos percentage, if any, is estimated. While United States Environmental Protection Agency (USEPA) regulations governing ACM consider materials containing greater than 1 percent as asbestos, accurately quantifying asbestos content below 5-percent has been shown to be unreliable.

As per the EPA document titled “Guidance for Controlling Asbestos-Containing Materials in Buildings” (also known as the Purple Book), the asbestos inspector can “...either assume that these materials contain asbestos, or sample and analyze them.”

## 4.0 ACM FINDINGS

The analytical results of the samples collected during the limited asbestos surveys conducted on November 25<sup>th</sup>, 2013 and June 30<sup>th</sup>, 2014, of the Naval Station Newport building 446, indicate that the following building materials were confirmed or assumed to contain asbestos greater than one percent (>1%) in content:

1. Black Flashing Layer 2
2. Black Pitch Pocket

According to the Occupational Safety and Health Administration (OSHA) and USEPA regulations, any material that contains more than one percent of any type of asbestos is considered an ACM. The following narrative lists the types of suspect materials sampled during the survey. Each section lists HA numbers and sample numbers. Similar materials with unique patterns or colors (e.g., ceiling tiles, floor tiles) have been assigned unique HAs. Asbestos-Containing Materials Summary Tables are presented in **Appendix D**.

### 4.1 Surfacing Material

Surfacing materials are defined by 29 CFR 1910.1101 as “sprayed, troweled-on or otherwise applied to surfaces (such as plaster on ceilings and walls or other materials on surfaces for acoustical, fireproofing and other purposes)”. The following suspect surfacing material was observed in the areas expected to be impacted by the proposed scope of work:

1. Fireproofing

### 4.2 Thermal System Insulation

Thermal system insulation is defined as insulation material applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain. The following suspect thermal system insulation was observed in the areas expected to be impacted by the proposed scope of work:

1. TSI on Elbows on Fiberglass Lines

#### 4.3 Miscellaneous Materials

Miscellaneous materials are defined by 40 CFR 763.83 as building materials on “structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing or thermal system insulation.” The following suspect miscellaneous materials were observed in the areas expected to be impacted by the proposed scope of work:

- 2' x 4' Ceiling Tile with Pinholes and Fissures
- Gray Mastic on Ceiling Heating Unit to Duct
- White Mastic on Fiberglass Pipe Insulation
- Gray Duct Seam Sealant
- Silver Tape on Fiberglass Duct Insulation
- Silver Paper on Fiberglass Duct Insulation
- Gray Duct Tape on HVAC Register
- White Paper on Fiberglass Pipe TSI
- Black Flashing Outer Layer
- Black Flashing Layer 2
- Gray Seam Caulk
- Black Mastic
- Black Flashing
- Gray Mastic on Fiberglass Insulation
- Black Pitch Pocket
- Cinder Block Mortar
- Tar Membrane

#### 4.4 Inaccessible Suspect ACM

During the survey, samples were collected if they were readily accessible and could be collected using non-destructive methods. Many classrooms were occupied with students and offices were occupied with staff which precluded STV from sampling.

Additional ACM may be present in inaccessible or concealed spaces. These spaces include, but are not limited to, roofing materials, spaces between wall/ceiling cavities, interior or mechanical components such as boiler cavities, interior ducts, etc. If future demolition activities make these areas accessible, STV recommends that a thorough assessment of these spaces be conducted at that time to identify and confirm the presence of ACM before proceeding with the demolition effort.

#### 4.5 Review of Previous Surveys

STV's limited hazardous materials survey identified locations and materials that will be impacted the proposed scope of work throughout the first and second floors and on the roof of building 446 CHI. Referenced prior reports and drawings are summarized below.

##### 1. 1992 Asbestos Survey by H+GCL

In 1992, thirty-nine homogeneous areas suspected of being asbestos-containing materials were analyzed. Fourteen materials were found to be positive for asbestos and two were assumed to contain asbestos. The following asbestos containing materials identified in the report may be impacted by the HVAC Replacement project:

- Ceiling tiles
- Floor tiles and associated mastic

##### 2. 2002 Asbestos Survey by Axiom

In 2002, a hazardous materials survey was conducted at the Site. This report confirms the square footage presented in the 1992 report and points out the presence of ACM on top of the ceiling tiles in the second floor hallway. STV observed debris on top of the ceiling tiles at representative locations of the second floor and assumes it is the same ACM debris sampled by Axiom. The following asbestos containing materials identified in the report may be impacted by the HVAC Replacement project:

- Roofing Debris on top of Ceiling Tiles

##### 3. 1995 Asbestos Abatement drawings for HVAC project (Contract #N62472-92-C-0012)

An asbestos abatement project was performed in 1995 for a HVAC project under a separate contract number on the materials and areas identified in the 1992 Asbestos Survey by H+GCL. Drawings AB-1 and AB-2 titled Training Building Improvements Building 446 indicate pipe fittings and ceiling to be removed in various areas of the building.

Based on STV's project specific visual inspection for the HVAC Replacement project, it appears that most pipe fittings were removed as indicated on drawings AB-1 and AB-2 and replaced with fiberglass pipe insulation and fittings. The few pipe fittings observed by STV were sampled and proven to be negative for asbestos.

Based on STV's project specific visual inspection for the HVAC Replacement project, it appears that ceiling tiles were removed from selected rooms and areas as indicated on drawings AB-1 and AB-2. Representative ceiling tiles observed by STV were sampled and proven to be negative for asbestos.

During design, the ceiling tiles to be impacted will be compared to previous abatement drawings and a project specific abatement design will be created for the HVAC Replacement project.

4. 1995 HVAC project mechanical drawings (contract #N62472-92-C-0012)

These drawings do not provide information regarding asbestos-containing materials or lead-containing paint.

5. 2013 Auditorium and Bathroom HVAC project drawings

This was a comprehensive study that included lead-based paint and a fungal survey at the site and included a 2013 Asbestos Survey by R.I. Analytical Laboratories (RIAL) dated October 31, 2013. The report documented one sample of wall skim coat was found to have a trace of asbestos and recommended that the material be treated as asbestos or sampled further. The wall skim coat will be treated as asbestos; as recommended by RIAL. The following asbestos containing materials identified in the report may be impacted by the HVAC Replacement project:

- 12"x12" Floor Tiles and associated Mastic
- Wall Skim Coat (Trace Chrysotile)
- Shower Ceiling Coating

6. October 24, 2011 Report by R.I. Analytical Laboratories

R.I. Analytical Laboratories (RIAL) performed an asbestos, LBP, universal waste and mold inspection during the months of May and June in 2011. The report was submitted on October 24, 2011. RIAL's goal for this report was to assess the potential hazards within building areas 266, 224, 159, 127, 125, 157 and 142, which would be affected during the proposed renovations efforts. The survey included the sampling of ACM, LBP, Universal Waste and Mold. The following asbestos containing materials identified in the report may be impacted by the HVAC Replacement project:

- Red Duct Seam Sealant
- 9"x9" Floor Tiles and associated Mastic
- 12"x12" Floor Tiles and associated Mastic

7. Replace Roof Drains Building 446, Asbestos Removal Work (Contract #N62472-97-C-6942)

The following asbestos containing materials identified in the report may be impacted by the HVAC Replacement project:

- Sheetrock Joint Compound

It is likely that the material identified as Sheetrock Joint Compound is the same material identified as Wall Skim Coat in the Asbestos Survey by R.I. Analytical Laboratories dated

October 31, 2013. Since joint compound is a composite building system with wallboard, and for purposes of consistency with prior abatement projects at this building, this will be considered as ACM and referred to as wallboard/joint compound.

#### *Prior Reports Summary*

In summary, the prior asbestos surveys and drawings provided for reference indicate the following asbestos containing materials identified in the report may be impacted by the HVAC Replacement project:

- Ceiling tiles
- Floor tiles and associated Mastic
- Roofing Debris on top of Ceiling Tiles
- Wallboard/Joint Compound
- Red Duct Seam Sealant
- Shower Ceiling Coating

#### 4.6 Asbestos-Containing Materials Recommendations

A Rhode Island Start Work Notification Form and Asbestos Abatement Plan Application must be submitted to the Asbestos Control Program prior to abatement activities. Asbestos containing materials must be properly removed by a licensed contractor prior to construction activities in accordance with the United Facilities Guide Specifications (UFGS) Section 02 82 16.00 20, Rhode Island Rules and Regulations for Asbestos Control R23-24.5-ASB and all other federal, state and local regulations. Contractors and employees working in Building 446 CHI should be made aware of the possibility that concealed ACM may be found during demolition. They should be advised not to disturb known or suspect ACM without owner approval. Any concealed building materials discovered during demolition activities, which are suspected to contain asbestos, should be sampled and analyzed to confirm the presence of asbestos prior to disturbing.

## 5.0 LEAD-CONTAINING MATERIALS SURVEY

A limited Lead-Containing Paint (LCP) survey was performed in the areas to be impacted by the scope of work at the Site. The purpose of this survey was to identify, locate, sample, and assess the condition of accessible representative suspect lead-containing paint that may be impacted by the proposed demolition identified in the scope of work. Mr. Douglas Glorie, a USEPA Certified Lead Risk Assessor, performed the Lead Containing Paint survey. The following narratives describe the methodology used to conduct a LCP survey, a summary of LCP findings, and recommendations.

### 5.1 Lead-Containing Paint Survey Methodology

The USEPA and U.S. Department of Housing and Urban Development (HUD) have established a definition of lead-based paint as paint or other surface coatings that contain lead equal to or greater than 1.0 mg/cm<sup>2</sup> or 0.5% by weight (equivalent units are: 5,000 micrograms per gram [ $\mu\text{g/g}$ ], and 5,000 mg/Kg, or 5,000 parts per million [ppm] by dry weight). Surface coatings include paint, shellac, varnish, or any other coating, including wallpaper which covers painted surfaces. The limited survey consisted of a visual survey of the areas of the building that would likely be impacted by the proposed scope of work and collection of representative paint chip samples. Refer to Appendix C for Sample Location Plans. According to the U.S. Department of Housing and Urban Development Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (HUD Guidelines) “Any paint or coating may be assumed to be lead-based paint, even without XRF or laboratory analysis.”

Note: According to the OSHA 29 CFR 1926.62 Lead in Construction Standard, the presence of lead in any amount triggers requirements of the OSHA Lead in Construction standard.

### 5.2 Review of Previous Surveys

Referenced prior reports and drawings are summarized below.

#### 1. 2002 Asbestos Survey by Axiom

The 2002 Axiom report identifies a lead concentration of 17.086% on the Steel Beams of the First Floor Room 116.

#### 2. 2013 Auditorium and Bathroom HVAC project drawings

In the October 31, 2013 report, R.I. Analytical indicates on page 4 the following lead containing painted surfaces:

- PB-2 – Room 116 0.055%
- PB-3 – Room 117 0.08%
- PB-4 – Room 116 0.062%

### 3. October 24, 2011 Report by R.I. Analytical Laboratories

R.I. Analytical Laboratories performed an asbestos, LBP, universal waste and mold inspection during the months of May and June in 2011. The report was submitted on October 24, 2011. RIAL's goal for this report was to assess the potential hazards within building areas 266, 224, 159, 127, 125, 157 and 142, which would be affected during the proposed renovations efforts. The survey included the sampling of ACM, LBP, Universal Waste and Mold. The following building materials and components have lead containing paint that may be impacted by the HVAC Replacement project:

- Red paint

### 4. Replace Roof Drains Building 446, Asbestos Removal Work Drawings (Contract #N62472-97-C-6942)

The drawings indicate the paint on the sheetrock and CMU has a lead content of between 0.019% and 0.201%.

#### *Prior Reports Summary*

In summary, the prior documents provided for reference indicate that building materials, components or colors have lead containing paint the may be impacted by the HVAC Replacement project including steel beams, sheetrock walls and CMU walls.

### 5.3 Lead-Containing Paint Findings

The analytical results of the supplemental samples collected by STV indicate that none of the paint chips sampled contain lead. Prior reports indicate that there is lead containing paint on building materials including steel beams, sheetrock walls and CMU walls.

Table D-3 with results for LCP samples is provided in **Appendix D**.

### 5.4 Lead-Containing Paint Recommendations

Hazardous Material Demolition Drawings and Specifications Section 028313 Lead in Construction should be designed for abatement of LCP. Any work which disturbs lead-containing paint shall be performed in accordance with OSHA 29 CFR 1926.62 (Lead in Construction Standard). Personal air monitoring should be conducted when disturbing lead containing materials as per OSHA 29 CFR 1926.62.

## 6.0 UNIVERSAL WASTE SURVEY

A limited universal waste survey was conducted to determine what equipment or devices present at the Site may contain mercury and/or other waste products requiring proper handling and disposal in the event that construction and retrofitting efforts should come in contact herewith. The following narratives describe the rationale and methodology used to conduct a universal waste survey, a summary of universal waste observations, and recommendations.

### 6.1 Universal Waste Survey Methodology

STV conducted a limited visual inspection of the Site's equipment and devices to determine which systems may likely contain universal waste. The survey scope of work is limited to the areas impacted by the proposed demolition identified in the scope of work. STV was provided the Environmental Checklist – Naval Station Newport Update 06/20/2012 which identifies potential universal waste in Item 25, Demolition.

The inspection consisted of identifying demolition debris that could be considered universal waste and consequently, potentially hazardous. Universal waste includes fluorescent light bulbs, batteries (smoke detectors, emergency lighting systems, exit signs, and security alarms), oil rags, used oil filters, mercury containing switches, refrigerant, and PCB-containing light ballasts.

A summary of existing universal waste can be found in Table D-5 (**Appendix D**).

### 6.2 Review of Previous Surveys

#### 1. October 24, 2011 Report by R.I. Analytical Laboratories

R.I. Analytical Laboratories performed asbestos, LBP, universal waste and mold inspection during the months of May and June in 2011. The report was submitted on October 24, 2011. RIAL's goal for this report was to assess the potential hazards within building areas 266, 224, 159, 127, 125, 157 and 142, which would be affected during the proposed renovations efforts. The survey included the sampling of ACM, LBP, Universal Waste and Mold. The following equipment was identified as universal waste that may be impacted by the HVAC Replacement project:

- Fluorescent Light Bulbs
- Fluorescent Light Ballasts
- Mercury in Controls and Thermostats

### 6.3 Universal Waste Recommendations

Universal waste at the site that may be impacted by the scope of work included fluorescent light bulbs, fluorescent light ballasts and mercury thermostats. The universal waste and demolition debris should be removed and disposed in accordance with design drawings and Specification Section 028416, Handling of Lighting Ballasts and Lamps Containing PCBs and Mercury.

## 7.0 POLYCHLORINATED BIPHENYL (PCB) SURVEY

Limited PCB sampling was conducted on caulking to determine proper handling and disposal. The following narratives describe the rationale and methodology used to sample PCB materials.

### 7.1 PCB Sample Methodology

STV conducted a limited PCB caulk inspection by collecting a sample of representative caulking. The sample was collected and containerized in accordance with USEPA protocols and sample methodology. Each container was properly labeled, and transported to EMSL Analytical Laboratory (EMSL), Cinnaminson, NJ location. EMSL is an ELAP-certified analytical laboratory for USEPA Method 8082 analysis. Standard chain-of-custody procedures were followed. The laboratory was directed to analyze each composite sample representing each homogenous material for extraction. Samples were then prepared using Soxhlet extraction and analyzed via USEPA Method 8082 for PCB Aroclors. PCB caulk analytical results were compared to the current classifications for PCB materials included in the Toxic Substances Control Act (TSCA) and EPA regulation 40 CFR Part 761.

### 7.2 Review of Previous Surveys

Previous surveys did not address PCBs in caulking.

### 7.3 PCB Findings

One caulk sample was collected and analyzed for PCB concentration. The PCB caulk analytical result was compared to the current classifications for PCB materials included in the Toxic Substances Control Act (TSCA) and EPA regulation 40 CFR Part 761. PCB caulk analytical results were compared to the current classifications for PCB materials included in the Toxic Substances Control Act (TSCA) and EPA regulation 40 CFR Part 761. TSCA classifies PCB-containing materials into the following categories:

- PCB Regulated = <50 ppm PCBs
- PCB Contaminated = 50 to <500 ppm PCBs
- PCB Material =  $\geq$ 500 ppm PCBs

A summary of the PCB sample results is included in Table D-4 (**Appendix D**). The analytical results of the samples collected show that PCB concentrations are <50 ppm (12 ppm PCB Aroclor-1254) and is in the PCB regulated category.

### 7.4 PCB Recommendations

The PCB Regulated caulk should be managed in accordance with the Toxic Substances Control Act (TSCA), the Environmental Protection Agency (EPA), state and local regulations and NAVFAC specifications.

## **8.0 ASSUMPTIONS AND LIMITATIONS**

The results, findings, conclusions, and recommendations expressed in the report are based only on conditions that were noted on November 25<sup>th</sup>, 2013 and June 30<sup>th</sup>, 2014 during STV's limited survey of building 446 CHI, located at Naval Station Newport, RI.

Any conditions or materials that could not be visually identified on the surface were not inspected and may differ from those conditions or materials noted. It was not within the scope of the survey to remove surface materials to investigate portions of the structure or materials that lay beneath the surface. STV's selection of sample locations and frequency of sampling was based on STV observations and the assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating ACM. In addition, the report will aid in locating areas that have lead-containing paint and the various universal waste items and components previously mentioned. Under no circumstances is the report to be utilized as a bidding document or as a project specification document.

The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user. Although every attempt has been made to identify suspect asbestos-containing materials in the areas identified, the non-destructive inspection technique used is inherently limited in the sense that only full demolition procedures will reveal all building materials of a structure. However, the presence of other hazardous materials, identified early in the report should be considered subject to the same conditions herein stated. Additionally, the passage of time may result in a change in the environmental characteristics at this Site. The report does not warrant against future operations or conditions that could affect the recommendations made. The results, findings, conclusions and recommendations expressed in this report are based only on conditions that were observed during STV's inspection of the Site.

## **9.0 REFERENCES**

1. 1992 Asbestos Survey: H+GCL Analytical Services, Inc.: “Building General Data Form”
2. 2002 Asbestos Survey: Axiom Partners: “Naval Station, Newport, Rhode Island, Building 446”
3. 1995 Asbestos Abatement Drawings: E-B-L Engineers, Inc., Dwg. #s AB-1 & AB-2; HVAC project (contract # N62472-92-C-0012)
4. 1995 HVAC project mechanical drawings (contract #N62472-92-C-0012)
5. 2013 Auditorium and Bathroom HVAC project drawings
6. Rhode Island Analytical Laboratories (RIAL): “Hazardous Material inspection for Weakley and Burke Hall”, October 24, 2011
7. Replace Roof Drains Building 446, Asbestos Removal Work (Contract #N62472-97-C-6942)



**APPENDIX A**

**Inspector Certifications and Laboratory Certifications**





**AIHA**

Laboratory Accreditation  
Programs, LLC

**AIHA Laboratory Accreditation Programs, LLC**

*acknowledges that*

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Laboratory ID: 102581

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

**LABORATORY ACCREDITATION PROGRAMS**

- |   |                                   |
|---|-----------------------------------|
| <input checked="" type="checkbox"/> <b>INDUSTRIAL HYGIENE</b>         | Accreditation Expires: 08/01/2014 |
| <input checked="" type="checkbox"/> <b>ENVIRONMENTAL LEAD</b>         | Accreditation Expires: 08/01/2014 |
| <input checked="" type="checkbox"/> <b>ENVIRONMENTAL MICROBIOLOGY</b> | Accreditation Expires: 08/01/2014 |
| <input type="checkbox"/> <b>FOOD</b>                                  | Accreditation Expires:            |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

  
S. D. Allen Iske, PhD, CIH, CSP  
Chairperson, Analytical Accreditation Board

  
Cheryl O. Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 12: 03/29/2012

Date Issued: 11/30/2012



## AIHA Laboratory Accreditation Programs, LLC

### SCOPE OF ACCREDITATION

**EMSL Analytical, Inc.**  
 307 West 38th Street, New York, NY 10018

Laboratory ID: **102581**  
 Issue Date: 11/30/2012

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

#### Environmental Lead Laboratory Accreditation Program (ELLAP)

**Initial Accreditation Date: 03/01/2000**

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
<b>Paint</b>	EPA SW-846 3050B	
	EPA SW-846 7000B	
<b>Soil</b>	EPA SW-846 3050B	
	EPA SW-846 7000B	
<b>Settled Dust by Wipe</b>	EPA SW-846 3050B	
	EPA SW-846 7000B	
<b>Airborne Dust</b>	NIOSH 7082	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- ✓ Paint
- ✓ Soil
- ✓ Settled Dust by Wipe
- ✓ Airborne Dust

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014  
Issued April 01, 2013  
Revised October 01, 2013

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**DR. PETER FRASCA**  
**EMSL ANALYTICAL INC**  
**200 ROUTE 130 NORTH**  
**CINNAMINSON, NJ 08077**

**NY Lab Id No: 10872**

*is hereby APPROVED as an Environmental Laboratory for the category*  
**ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE**  
*All approved subcategories and/or analytes are listed below:*

**Miscellaneous**

Asbestos in Friable Material	EPA 600/M4/82/020 Item 198.1 of Manual
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B SM 18-21 3111B (99)

**Sample Preparation Methods**

APP. 14.2, HUD JUNE 1995  
EPA 3050B

**Serial No.: 49475**

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2015  
Issued April 01, 2014  
Revised May 13, 2014

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. JAMES HALL  
EMSL ANALYTICAL, INC  
307 WEST 38TH STREET  
NEW YORK, NY 10018**

**NY Lab Id No: 11506**

*is hereby APPROVED as an Environmental Laboratory for the category  
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved subcategories and/or analytes are listed below:*

**Miscellaneous**

Asbestos in Friable Material	Item 198.1 of Manual EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B

**Sample Preparation Methods**

EPA 3050B

**Serial No.: 51195**

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.



July 31, 2014

Laboratory ID: 102581

James Hall  
EMSL Analytical, Inc.  
307 West 38th Street  
New York, NY 10018

Dear Mr. Hall:

AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC) has approved an extension to your laboratory's current certificate of accreditation in the Industrial Hygiene Laboratory Accreditation Program (IHLAP), Environmental Lead Accreditation Program (ELLAP) and Environmental Microbiology Accreditation Program (EMLAP). This extension will expire on November 01, 2014. Remember that your laboratory must maintain proficiency per Policy Module 6 in order for the new certificate to be issued.

Your laboratory remains an accredited laboratory in IHLAP, ELLAP and EMLAP. Please keep a copy of this letter with your expired certificate. If you have questions or concerns, please feel free to contact Patricia Sheehan, Laboratory Accreditation Specialist at (703) 846-0739.

Sincerely,

A handwritten signature in cursive script that reads "Cheryl O. Morton".

Cheryl O. Morton  
Managing Director  
AIHA Laboratory Accreditation Programs, LLC



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL ANALYTICAL, INC.  
200 Route 130 North  
Cinnaminson, NJ 08077  
Helen M. MacMinn Phone: 856 858 4800 x 2546

ENVIRONMENTAL

Valid To: May 31, 2015

Certificate Number: 2845.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below; for the test methods applicable to the National Environmental Lead Laboratory Accreditation Program (NLLAP) and tests on children's products:

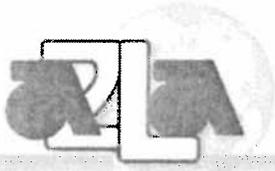
<b>ENVIRONMENTAL LEAD</b>	
<b>Test</b>	<b>Test Method(s)</b>
Total Lead (Pb) in Soil	EMSL Analytical, Inc. LM-007A (Modified EPA 7000B – (FLAA), 3050 Hotblock Digestion)
Total Lead (Pb) in Paint Chips	EMSL Analytical, Inc. LM-007B (Modified EPA 7000B – (FLAA), 3050 Hotblock Digestion)
Total Lead (Pb) in Dust Wipes	EMSL Analytical, Inc. LM-007C (Modified EPA 7000B – (FLAA), 3050 Hotblock Digestion)

<b>AIR MATRIX</b>	
<b>Test</b>	<b>Test Method(s)</b>
Total Lead (Pb) in Air	NIOSH 7082 – (FLAA)
Total Lead (Pb) in Air	NIOSH 7105 – (GFAA)
Total Metals in Air	EMSL Analytical, Inc. LM-003 (Modified NIOSH 7300 for ICP/ICP-MS)

Accreditation is also granted to this laboratory to perform the following tests on children's products:

<b>CHEMICAL</b>	
<b>Test</b>	<b>Test Method(s)</b>
Lead in Paint and Surface Coatings	16 CFR 1303 (using ASTM E1613 and E1645); CPSC-CH-E1003-09.1
Total Lead in Children's Metal Jewelry	CPSC-CH-E1001-08.1
Total Lead in Children's Metal Products	CPSC-CH-E1001-08.1
Total Lead in Children's Non-Metal Products	CPSC-CH-E1002-08
Phthalates	CPSC-CH-C1001-09.3 (using EPA SW-846 8270)
Soluble Heavy Metals Content (As, Ba, Cd, Cr, Pb, Hg, Sb, Se)	ASTM F 963-11 Section 4.3.5.1 & Section 4.3.5.2
Total Cadmium in Children's Metal Products Including Children's Metal Jewelry	EMSL Analytical, Inc. LM-016, (Modified CPSC-CH-E1001-08.1)
Total Cadmium in Children's Non Metal Products	EMSL Analytical, Inc. LM-016, (Modified CPSC-CH-E1002-08)





American Association for Laboratory Accreditation

## *Accredited Laboratory*

A2LA has accredited

**EMSL ANALYTICAL, INC.**

*Cinnaminson, NJ*

for technical competence in the field of

**Environmental Testing**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 11<sup>th</sup> day of September 2013.

President & CEO  
For the Accreditation Council  
Certificate Number 2845.01  
Valid to May 31, 2015



*For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.*



August 28, 2014

Laboratory ID: 100194

Patricia Kirkland  
EMSL Analytical, Inc.  
200 Route 130 North  
Cinnaminson, NJ 08077

Dear Ms. Kirkland:

AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP, LLC) has approved an extension to your laboratory's current certificate of accreditation in the Industrial Hygiene Laboratory Accreditation Program (IHLAP), Environmental Lead Accreditation Program (ELLAP) and Environmental Microbiology Accreditation Program (EMLAP). This extension will expire on November 1, 2014. Remember that your laboratory must maintain proficiency per Policy Module 6 in order for the new certificate to be issued.

Your laboratory remains an accredited laboratory in IHLAP, ELLAP, and EMLAP. Please keep a copy of this letter with your expired certificate. If you have questions or concerns, please feel free to contact Patricia Sheehan, Laboratory Accreditation Specialist at (703) 846-0739.

Sincerely,

A handwritten signature in cursive script that reads "Cheryl O. Morton".

Cheryl O. Morton  
Managing Director  
AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

**LABORATORY ACCREDITATION PROGRAMS**

- |  |                                   |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE         | Accreditation Expires: 07/01/2014 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD         | Accreditation Expires: 07/01/2014 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 07/01/2014 |
| <input type="checkbox"/> FOOD                                  | Accreditation Expires:            |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

S. D. Allen Iske, PhD, CIH, CSP  
Chairperson, Analytical Accreditation Board

Cheryl O. Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 12: 03/29/2012

Date Issued: 07/31/2012



## AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.  
200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**  
Issue Date: 07/31/2012

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

### Environmental Lead Laboratory Accreditation Program (ELLAP)

**Initial Accreditation Date: 01/18/1995**

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
<b>Paint</b>	EPA SW-846 3050B	
	EPA SW-846 7000B	
<b>Soil</b>	EPA SW-846 3050B	
	EPA SW-846 7000B	
<b>Settled Dust by Wipe</b>	EPA SW-846 3050B	
	EPA SW-846 7000B	
<b>Airborne Dust</b>	NIOSH 7082	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- ✓ Paint
- ✓ Soil
- ✓ Settled Dust by Wipe
- ✓ Airborne Dust

United States Department of Commerce  
National Institute of Standards and Technology



---

**Certificate of Accreditation to ISO/IEC 17025:2005**

---

NVLAP LAB CODE: 101048-9

**EMSL Analytical, Inc.**

New York, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**AIRBORNE ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

---

2014-07-01 through 2015-06-30

*Effective dates*



A handwritten signature in black ink, appearing to read 'Wm R. M. L. D.' or similar.

*For the National Institute of Standards and Technology*



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMSL Analytical, Inc.**

307 W. 38th Street

New York, NY 10018

Jim Hall

Phone: 212-290-0051 Fax: 212-290-0058

E-Mail: [ssiegel@emsl.com](mailto:ssiegel@emsl.com)

URL: <http://www.emsl.com>

**AIRBORNE ASBESTOS FIBER ANALYSIS (TEM)**

**NVLAP LAB CODE 101048-9**

***NVLAP Code    Designation / Description***

18/A02            U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

2014-07-01 through 2015-06-30

*Effective dates*

*For the National Institute of Standards and Technology*

United States Department of Commerce  
National Institute of Standards and Technology



---

## Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 101048-9

**EMSL Analytical, Inc.**  
New York, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

---

2014-07-01 through 2015-06-30

*Effective dates*



A handwritten signature in black ink, appearing to read "William R. Mallard".

---

*For the National Institute of Standards and Technology*



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMSL Analytical, Inc.**

307 W. 38th Street

New York, NY 10018

Jim Hall

Phone: 212-290-0051 Fax: 212-290-0058

E-Mail: [ssiegel@emsl.com](mailto:ssiegel@emsl.com)

URL: <http://www.emsl.com>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 101048-9**

***NVLAP Code    Designation / Description***

18/A01            EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

18/A03            EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2014-07-01 through 2015-06-30

*Effective dates*

*For the National Institute of Standards and Technology*



*State of Rhode Island and Providence Plantations*  
**DEPARTMENT OF HEALTH**  
**HEALTHY ENVIRONMENT TEAM – ASBESTOS PROGRAM**  
**CERTIFICATION**

Pursuant to the Asbestos Abatement Act, Chapter 24.5 of Title 23 of the General Laws entitled "Health and Safety" as amended, and the Rules and Regulations for Asbestos Control, this Certificate is hereby issued as designated below. This Certificate is subject to all applicable rules, regulations, orders and notices of the Department of Health now or hereafter in effect and to any conditions specified below.

Certificate Holder: EMSL ANALYTICAL INC

Address: 200 ROUTE 130 NORTH  
CINNAMINSON NJ 08077

Certification Number: AAL-075

Expiration Date: 04/30/2015

Type of Certification: Analytical Serv-PLM, PCM, TEM

Except as specifically provided otherwise in this Certificate, Certificate Holders shall conduct their program in accordance with statements, procedures and representations contained in their documents, including any enclosures, listed below. The Rhode Island Rules and Regulations for Asbestos Control shall govern unless the statements representations and procedures in the Certificate Holder's application and correspondence are more restrictive than the regulations.

Bonnie Cassani-Brandt  
Training and Compliance Manager  
Healthy Homes and Environment

United States Department of Commerce  
National Institute of Standards and Technology



---

## Certificate of Accreditation to ISO/IEC 17025:2005

---

NVLAP LAB CODE: 101048-0

**EMSL Analytical, Inc.**  
Cinnaminson, NJ

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2014-07-01 through 2015-06-30

*Effective dates*



A handwritten signature in black ink, appearing to read 'William R. M. L. D.', positioned above a horizontal line.

*For the National Institute of Standards and Technology*



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMSL Analytical, Inc.**  
 200 Route 130 North  
 Cinnaminson, NJ 08077  
 Mr. Stephen Siegel, CIH  
 Phone: 800-220-3675 Fax: 856-786-5973  
 E-Mail: [ssiegel@emsl.com](mailto:ssiegel@emsl.com)  
 URL: <http://www.emsl.com>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

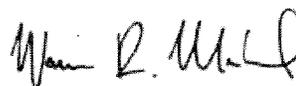
**NVLAP LAB CODE 101048-0**

***NVLAP Code    Designation / Description***

18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2014-07-01 through 2015-06-30

*Effective dates*



*For the National Institute of Standards and Technology*

**Rhode Island Department of Health  
Asbestos Program  
Asbestos Inspector**

**DOUGLAS GLORIE**

Exp. Date: 05/06/2015

License #: AAC-0672

Member of C.O.N.E.S.



**Rhode Island Department of Health  
Asbestos Program  
Asbestos Project Designer**

**DOUGLAS GLORIE**

Exp. Date: 04/23/2015

License #: AAC-0672

Member of C.O.N.E.S.



*Training conducted by:*  
*ATC Associates, Inc.*  
*73 William Franks Drive*  
*West Springfield, MA 01089*  
*(413) 781-0070*

**Certificate of Attendance and Successful Completion**  
**Renovator Initial – English**  
**Per 40 CFR Part 745.225**

**Doug Glorie**  
225 Park Avenue South, New York, NY 10003  
Certificate Number: *NAT-RV-I-966-11-04495*

Course Date: September 19, 2011  
Examination Date: September 19, 2011  
Expiration Date: September 19, 2016



*Gregory J. March*  
Principal Instructor

*Gregory J. March*  
Regional Manager

STATE OF NEW YORK - DEPARTMENT OF LABOR  
ASBESTOS CERTIFICATE

7



**MIKHAIL NATANOV**  
CLASS(EXPIRES)  
C ATEC(10/14) D INSP(10/14)  
H PM (10/14)

ASBESTOS CERTIFICATE  
10/14

MUST BE CARRIED ON ASBESTOS PROJECTS

# Big Apple Occupational Safety Corp

505 Eighth Avenue, #2305, New York, NY 10018  
(212) 564-7656

This Is To Certify That

**Mikhail Natanov**

SS#: xxx-xx-xxxx

has successfully completed the New York State Department of Health approved course entitled  
This course meets requirements of TSCA Title II

## INSPECTOR REFRESHER

*(The official record of successful completion is the DOH 2832 Certificate of completion  
New York State Department of Health Certificate of Asbestos Safety Training)*

Course Date: 09/27/2011

Expiration Date: 09/27/2012

Certificate Number: 621078

Examination Date: 09/27/2011

Examination Grade: 83%

  
Radha Reddy  
Training Director

## **APPENDIX B**

### **Bulk Material Sampling Analytical Results**



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order: 041332458  
 CustomerID: STVI62  
 CustomerPO:  
 ProjectID: NAVFAC

Attn: **Douglas Glorie**  
**STV, Inc.**  
**225 Park Avenue South**  
**New York, NY 10003**

Phone: (212) 614-3369  
 Fax: (646) 654-1861  
 Received: 12/02/13 7:50 PM  
 Analysis Date: 12/4/2013  
 Collected: 11/25/2013

Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-1 041332458-0001	Mechanical room 155 - fireproofing	Gray Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (other)	None Detected
HA: 1					
1-2 041332458-0002	Mechanical room 155 - fireproofing	Gray Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (other)	None Detected
HA: 1					
1-3 041332458-0003	Mechanical room 155 - fireproofing	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (other)	None Detected
HA: 1					
2-1 041332458-0004	Room 107 - silver tape on FG duct insulation	Brown/Silver Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
HA: 2					
2-2 041332458-0005	Corridor @ room 106 - silver tape on FG duct insulation	Brown/Silver Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
HA: 2					
2-3 041332458-0006	Room 207 - silver tape on FG duct insulation	Brown/Silver Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (other)	None Detected
HA: 2					
3-1 041332458-0007	Room 107 - silver paper on FG duct insulation	Brown/Silver Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
HA: 3					

## Analyst(s)

Juli Patel (14)  
 Justine Schenck (37)

William Nguyen (8)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 12/04/2013 18:37:53



# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041332458  
 CustomerID: STVI62  
 CustomerPO: NAVFAC  
 ProjectID: NAVFAC

Attn: **Douglas Glorie**  
**STV, Inc.**  
**225 Park Avenue South**  
**New York, NY 10003**

Phone: (212) 614-3369  
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Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
3-2 041332458-0008	Corridor @ room 106 - silver paper on FG duct insulation	Brown/Silver Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
HA: 3					
3-3 041332458-0009	Room 207 - silver paper on FG duct insulation	Brown/Silver Fibrous Homogeneous	30% Cellulose 10% Glass	60% Non-fibrous (other)	None Detected
HA: 3					
4-1 041332458-0010	Room 107 - gray duct tape on HVAC register	Gray Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (other)	None Detected
HA: 4					
4-2 041332458-0011	Custodian equip locker - gray duct tape on HVAC register	Gray Fibrous Homogeneous	20% Synthetic	80% Non-fibrous (other)	None Detected
HA: 4					
4-3 041332458-0012	Custodian equip locker - gray duct tape on HVAC register	Gray Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (other)	None Detected
HA: 4					
5-1 041332458-0013	Room 107 - 2x4 ceiling tile with pinholes & fissures	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (other)	None Detected
HA: 5					

Analyst(s)

Juli Patel (14)  
 Justine Schenck (37)

William Nguyen (8)

Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

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**EMSL Analytical, Inc.**

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EMSL Order: 041332458  
 CustomerID: STVI62  
 CustomerPO:  
 ProjectID: NAVFAC

Attn: **Douglas Glorie**  
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Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5-2 041332458-0014	Corridor @ electric panel #2 - 2x4 ceiling tile with pinholes & fissures	Gray/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (other)	None Detected
HA: 5					
5-3 041332458-0015	Room adj to rm 266 - 2x4 ceiling tile with pinholes & fissures	Gray/White Fibrous Homogeneous	50% Min. Wool 30% Cellulose	20% Non-fibrous (other)	None Detected
HA: 5					
6-1 041332458-0016	Corridor @ room 106 - white paper on fiberglass pipe TSI	White/Silver Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
HA: 6					
6-2 041332458-0017	Room 116 @ wall unit - white paper on fiberglass pipe TSI	White/Silver Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
HA: 6					
6-3 041332458-0018	Room 207 - white paper on fiberglass pipe TSI	White/Silver Fibrous Homogeneous	40% Cellulose 10% Glass	50% Non-fibrous (other)	None Detected
HA: 6					
7-1 041332458-0019	Room 110 - gray mastic on ceiling heating unit to duct	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 7					

**Analyst(s)**

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Received: 12/02/13 7:50 PM  
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Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
7-2 041332458-0020	Room 110 - gray mastic on ceiling heating unit to duct	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 7		
7-3 041332458-0021	Room 110 - gray mastic on ceiling heating unit to duct	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 7		
8-1 041332458-0022	Room 110 - white mastic on FG pipe insulation	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
			HA: 8		
8-2 041332458-0023	Room 110 - white mastic on FG pipe insulation	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
			HA: 8		
8-3 041332458-0024	Room 110 - white mastic on FG pipe insulation	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
			HA: 8		
9-1 041332458-0025	Room 127 - grey duct seam sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 9		
9-2 041332458-0026	Room 127 - grey duct seam sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 9		

Analyst(s)

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EMSL Order:	041332458
CustomerID:	STV/62
CustomerPO:	
ProjectID:	NAVFAC

Attn: <b>Douglas Glorie</b> <b>STV, Inc.</b> <b>225 Park Avenue South</b> <b>New York, NY 10003</b>	Phone: (212) 614-3369 Fax: (646) 654-1861 Received: 12/02/13 7:50 PM Analysis Date: 12/4/2013 Collected: 11/25/2013
Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-3 041332458-0027	Room 127 - grey duct seam sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 9					
10-1 041332458-0028	Roof-AHU-4 and AHU-5 - black flashing outer layer	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
HA: 10					
10-2 041332458-0029	Roof-AHU-4 and AHU-5 - black flashing outer layer	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
HA: 10					
10-3 041332458-0030	Roof-AHU-4 and AHU-5 - black flashing outer layer	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
HA: 10					
11-1-Felt 041332458-0031	Roof-AHU-4 and AHU-5 - black flashing layer 2	Gray Fibrous Homogeneous	25% Cellulose 5% Glass	70% Non-fibrous (other)	None Detected
HA: 11					
11-1-Foam 041332458-0031A	Roof-AHU-4 and AHU-5 - black flashing layer 2	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 11					
11-1-Tar 041332458-0031B	Roof-AHU-4 and AHU-5 - black flashing layer 2	Black Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
HA: 11					

**Analyst(s)**

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Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

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 ProjectID: NAVFAC

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 Received: 12/02/13 7:50 PM  
 Analysis Date: 12/4/2013  
 Collected: 11/25/2013

Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
11-2-Felt <i>041332458-0032</i>	Roof-AHU-4 and AHU-5 - black flashing layer 2	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected
			HA: 11		
11-2-Foam <i>041332458-0032A</i>	Roof-AHU-4 and AHU-5 - black flashing layer 2	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 11		
11-2-Tar <i>041332458-0032B</i>	Roof-AHU-4 and AHU-5 - black flashing layer 2				Stop Positive (Not Analyzed)
			HA: 11		
11-3-Felt <i>041332458-0033</i>	Roof-AHU-4 and AHU-5 - black flashing layer 2	Black Fibrous Homogeneous	10% Glass 10% Synthetic	80% Non-fibrous (other)	None Detected
			HA: 11		
11-3-Foam <i>041332458-0033A</i>	Roof-AHU-4 and AHU-5 - black flashing layer 2	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 11		
11-3-Tar <i>041332458-0033B</i>	Roof-AHU-4 and AHU-5 - black flashing layer 2				Stop Positive (Not Analyzed)
			HA: 11		
12-1 <i>041332458-0034</i>	Roof-AHU-4 and AHU-5 - gray seam caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 12		

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Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
12-2 041332458-0035	Roof-AHU-4 and AHU-5 - gray seam caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 12		
12-3 041332458-0036	Roof-AHU-4 and AHU-5 - gray seam caulk	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 12 Recommend TEM		
13-1 041332458-0037	Roof-AHU-4 and AHU-5 - black mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 13		
13-2 041332458-0038	Roof-AHU-4 and AHU-5 - black mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 13		
13-3 041332458-0039	Roof-AHU-4 and AHU-5 - black mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: 13		
14-1 041332458-0040	Roof exhaust fan flashing - black flashing	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected
			HA: 14		
14-2 041332458-0041	Roof exhaust fan flashing - black flashing	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected
			HA: 14		

Analyst(s)

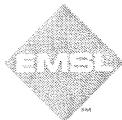
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Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
14-3 <i>041332458-0042</i>	Roof exhaust fan flashing - black flashing	Black Fibrous Homogeneous	10% Cellulose 10% Glass	80% Non-fibrous (other)	None Detected
HA: 14					
15-1 <i>041332458-0043</i>	Roof chiller - gray mastic on FG insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 15					
15-2 <i>041332458-0044</i>	Roof chiller - gray mastic on FG insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 15					
15-3 <i>041332458-0045</i>	Roof chiller - gray mastic on FG insulation	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 15					
16-1 <i>041332458-0046</i>	Roof chiller - black pitch pocket	Black Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
HA: 16					
16-2 <i>041332458-0047</i>	Roof chiller - black pitch pocket	Black Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
HA: 16					
16-3 <i>041332458-0048</i>	Roof chiller - black pitch pocket				Stop Positive (Not Analyzed)
HA: 16					

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
17-1 041332458-0049	Room 224 - TSI on elbows on FG lines	Gray Fibrous Homogeneous	40% Min. Wool	60% Non-fibrous (other)	None Detected
			HA: 17		
17-2 041332458-0050	Room 224 - TSI on elbows on FG lines	Gray Fibrous Homogeneous	40% Min. Wool	60% Non-fibrous (other)	None Detected
			HA: 17		
17-3 041332458-0051	Room 224 - TSI on elbows on FG lines	Gray Fibrous Homogeneous	40% Min. Wool	60% Non-fibrous (other)	None Detected
			HA: 17		
18-1 041332458-0052	- duplicate	Gray/White Fibrous Homogeneous	80% Min. Wool	20% Non-fibrous (other)	None Detected
			HA: DUP1		
19-1 041332458-0053	- duplicate	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
			HA: DUP2		
20-1 041332458-0054	- duplicate	Gray Fibrous Homogeneous	40% Min. Wool	60% Non-fibrous (other)	None Detected
			HA: DUP3		
21-1 041332458-0055	- duplicate	Black Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
			HA: DUP4		

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 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 12/04/2013 18:37:53



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> [cinnashlab@EMSL.com](mailto:cinnashlab@EMSL.com)

EMSL Order: 041332458  
CustomerID: STVI62  
CustomerPO:  
ProjectID: NAVFAC

Attn: **Douglas Glorie**  
**STV, Inc.**  
**225 Park Avenue South**  
**New York, NY 10003**

Phone: (212) 614-3369  
Fax: (646) 654-1861  
Received: 12/02/13 7:50 PM  
Analysis Date: 12/4/2013  
Collected: 11/25/2013

Project: 3016436 / NAVFAC / Naval Station Newport, Newport, Rhode Island

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
22-1 041332458-0056	- duplicate	Black Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile

HA: DUP5

Analyst(s)

*Juli Patel (14)* *William Nguyen (8)*  
*Justine Schenck (37)*

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported 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. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%  
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 12/04/2013 18:37:53

041332458

**STV INCORPORATED ASBESTOS SURVEY DATA SHEET/ CHAIN OF CUSTODY** PAGE  5  OF  5

**PROJECT NO.:** 3016436

**CLIENT:** NAVFAC

**PROJECT SITE:** Naval Station Newport, Newport, Rhode Island

**Project Manager:** D. Glorie

STV Incorporated  
Address: 225 Park Avenue South, New York, NY 10003  
Telephone No.: 212-505-4930

**LOCATION(S) SURVEYED:** Bldg. 446 CHI, SWOS, Site/Project Specific Areas

**PROPOSED PROJECT:** Bldg. 446 HVAC Replacement

**DATE(S) OF INSPECTION:** 11/25/13

**Inspector(s):** D. Glorie

**RESULTS TO:** D. Glorie FAX NO.: 212-529-5237  
douglas.glorie@stvinc.com

TURNAROUND TIME: 72 HR.

CONTINUED  
13 DEC-2

03/24/654 d

HA	SAMPLE NO.	MATERIAL DESCRIPTION	SAMPLE LOCATION	APPROX. QUANTITY (LF/SF)	CONDITION AND FRIABILITY
1	1-1	FIREPROOFING	MECHANICAL ROOM 155	TBD	DAMAGED FRIABLE
1	1-2	_____	↓		
1	1-3	_____	↓		
2	2-1	SILVER TAPE ON EG DUCT INSULATION	Room 107		Good NON FRIABLE
2	2-2	_____	CORRIDOR @ Room 106		Good NON FRIABLE
2	2-3	_____	Room 207		Good NON FRIABLE
3	3-1	SILVER PAPER ON EG DUCT INSULATION	Room 107		Good NON FRIABLE
3	3-2	_____	CORRIDOR @ Room 106		Good NON FRIABLE
3	3-3	_____	Room 207		Good NON FRIABLE
4	4-1	GRAY DUCT TAPE ON HVAC REGISTER	Room 107		DAMAGED NON FRIABLE
4	4-2	_____	CUSTOMER GROUP LOCKER		DAMAGED NON FRIABLE
4	4-3	_____	↓		

CHAIN OF CUSTODY			
Relinquished by: D. Glorie (print)	Relinquished by: (print)	Relinquished by: (print)	Relinquished by: (print)
Received by: (Sign)	Received by: (Sign)	Received by: (Sign)	Received by: (Sign)
AMPM	AMPM	AMPM	AMPM
11/25/13	11/25/13	11/25/13	11/25/13
AMPM	AMPM	AMPM	AMPM
7:50 PM	7:50 PM	7:50 PM	7:50 PM

EMSL MANHATTAN LLS RECEIVED 013 NOV 27 10:15

Cont

041332458

**STV INCORPORATED ASBESTOS SURVEY DATA SHEET/ CHAIN OF CUSTODY** PAGE 2 OF 5

**PROJECT NO.:** 3016436  
**CLIENT:** NAVFAC  
**PROJECT SITE:** Naval Station Newport, Newport, Rhode Island  
**Project Manager:** D. Glorie

STV Incorporated  
 Address: 225 Park Avenue South, New York, NY 10003  
 Telephone No.: 212-505-4930

**LOCATION(S) SURVEYED:** Bldg. 446 CHI, SWOS, Site/Project Specific Areas  
**PROPOSED PROJECT:** Bldg. 446 HVAC Replacement  
**DATE(S) OF INSPECTION:** 11/25/13  
**Inspector(s):** D. Glorie

**RESULTS TO:** D. Glorie FAX NO.: 212-529-5237  
 douglas.glorie@stvinc.com  
 TURNAROUND TIME: 72 HR.

HA	SAMPLE NO.	MATERIAL DESCRIPTION	SAMPLE LOCATION	APPROX. QUANTITY (LF/SF)	CONDITION AND FRIABILITY
5	5-1	2'x4' CEILING TILE WITH PIPOHONES + FISSURES	ROOM 107	TBD	FRIABLE DAMAGED
	5-2		CORRIDOR @ ELECTRIC PANEL #1		
	5-3		ROOM ADJ. TO RM 266		
6	6-1	WHITE PAPER ON FIBERGLASS PIPES IS	CORRIDOR @ ROOM 106		NON FRIABLE GOOD
	6-2		ROOM 116 @ WALL UNIT		
	6-3		ROOM 207		
7	7-1	GRAY MASTIC ON CEILING HEATING UNIT TO DUCT	ROOM 110		NON FRIABLE GOOD
	7-2				
	7-3				
8	8-1	WHITE MASTIC ON FG PIPE INSULATION	ROOM 110		NON FRIABLE GOOD
	8-2				
	8-3				

EMSL MANHATTAN LAB RECEIVED  
 2013 NOV 27 AM 10:15

**CHAIN OF CUSTODY**

Released by: D. Glorie (print)	Received by: R. S. [Signature] (print)	Released by: [Signature] (print)	Received by: [Signature] (print)	Released by: [Signature] (print)	Received by: [Signature] (print)
11/25/13	11/25/13	11/25/13	11/25/13	11/25/13	11/25/13

041332458

**STV INCORPORATED ASBESTOS SURVEY DATA SHEET/ CHAIN OF CUSTODY** PAGE 3 OF 5

**PROJECT NO.:** 3016436  
**CLIENT:** NAVFAC  
**PROJECT SITE:** Naval Station Newport, Newport, Rhode Island  
**Project Manager:** D. Glorie

**LOCATION(S) SURVEYED:** Bldg. 446 CHI, SWOS, Site/Project Specific Areas  
**PROPOSED PROJECT:** Bldg. 446 HVAC Replacement  
**DATE(S) OF INSPECTION:** 11/25/13  
**Inspector(s):** D. Glorie

STV Incorporated  
 Address: 225 Park Avenue South, New York, NY 10003  
 Telephone No.: 212-505-4930

**RESULTS TO:** D. Glorie FAX NO.: 212-529-5237  
 douglas.glorie@stvinc.com

TURNAROUND TIME: 72 HR.

HA	SAMPLE NO.	MATERIAL DESCRIPTION	SAMPLE LOCATION	APPROX. QUANTITY (LF/SF)	CONDITION AND FRIABILITY
9	9-1	GREY DUCT SEAM SEALANT	Room 127	2 SF	GOOD NONFRIABLE
1	9-2				
1	9-3				
10	10-1	BLACK FLASHING OUTER LAYER	ROOF AHU-4 AND AHU-5		GOOD NONFRIABLE
1	10-2				
1	10-3				
11	11-1	BLACK FLASHING LAYER 2			
1	11-2				
1	11-3				
12	12-1	GRAY SEAM SEALANT / CAULK			
1	12-2				
1	12-3				

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 2013 NOV 27 AM 10:15

CHAIN OF CUSTODY			
Relinquished by: D. Glorie (Sign)	Relinquished by: AMPM (print)	Relinquished by: AMPM (print)	Relinquished by: AMPM (print)
Received by: K. Robert (Sign)	Received by: AMPM (print)	Received by: AMPM (print)	Received by: AMPM (print)
11/25/13	1	1	1



041332458

**STV INCORPORATED ASBESTOS SURVEY DATA SHEET/ CHAIN OF CUSTODY** PAGE 5 OF 5

**PROJECT NO.:** 3016436  
**CLIENT:** NAVFAC  
**PROJECT SITE:** Naval Station Newport, Newport, Rhode Island  
**Project Manager:** D. Glorie

**LOCATION(S) SURVEYED:** Bldg. 446 CHI, SWOS, Site/Project Specific Areas  
**PROPOSED PROJECT:** Bldg. 446 HVAC Replacement  
**DATE(S) OF INSPECTION:** 11/19/DEC - 2 PM 09/34654  
**Inspector(s):** D. Glorie

STV Incorporated  
 Address: 225 Park Avenue South, New York, NY 10003  
 Telephone No.: 212-505-4930

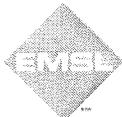
**RESULTS TO:** D. Glorie FAX NO.: 212-529-5237  
 douglas.glorie@stvinc.com

TURNAROUND TIME: 72 HR.

HA	SAMPLE NO.	MATERIAL DESCRIPTION	SAMPLE LOCATION	APPROX. QUANTITY (LF/SF)	CONDITION AND FRIABILITY
17	17-1	TSI ON ELBOWS ON FG LINES	ROOM 224	YBD	
	17-2				
	17-3				
DUP1	18-1	DUPLICATE	NA		
DUP2	19-1				
DUP3	20-1				
DUP4	21-1				
DUP5	22-1				

EMSE-MANHATTAN LAB RECEIVED  
 2013 NOV 27 AM 10:15

CHAIN OF CUSTODY			
Relinquished by: D. Glorie (print)	Relinquished by: AMPFM (print)	Relinquished by: AMPFM (print)	Relinquished by: AMPFM (print)
Received by: D. Glorie (print)	Received by: AMPFM (print)	Received by: AMPFM (print)	Received by: AMPFM (print)
(Sign)	(Sign)	(Sign)	(Sign)



**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018  
Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031346545  
CustomerID: STVI62  
CustomerPO: NAVFAC  
ProjectID: NAVFAC

Attn: **Douglas Glorie**  
**STV, Inc.**  
**225 Park Avenue South**  
**New York, NY 10003**

Phone: (212) 614-3369  
Fax: (646) 654-1861  
Received: 11/27/13 10:12 AM  
Collected: 11/25/2013

Project: 3016436/ NAVFAC/ NAVAL STATION NEWPORT/ NEWPORT, RHODE ISLAND/ BLDG 446 CHI, SWOS/ SITE PROJECT SPECIFIC AREAS

**Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B\*/7000B)**

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
LBP-1 Site: MER/ MECHANICAL ROOM	0001	11/25/2013	11/30/2013	<0.010 % wt
LBP-2 Site: ROOF/ ROOF CHILLER	0002	11/25/2013	11/30/2013	<0.010 % wt
LBP-3 Site: DUP-1 DUPLICATE	0003	11/25/2013	11/30/2013	<0.010 % wt

*M. Apfeldorfer*

Miron Apfeldorfer, Laboratory Manager  
or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. \* slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.  
Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 12/01/2013 13:50:16





**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn: **Douglas Glorie**  
**STV, Inc.**  
**225 Park Avenue South**  
**New York, NY 10003**  
Phone: (212) 614-3369  
Fax: (646) 654-1861

12/5/2013

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 11/29/2013. The results are tabulated on the attached data pages for the following client designated project:

**3016436**

The reference number for these samples is EMSL Order #011305972. 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 10872, 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> [Env\\_Chemistry@emsl.com](mailto:Env_Chemistry@emsl.com)

EMSL Order: 011305972  
 CustomerID: STVI62  
 CustomerPO:  
 ProjectID:

Attn: **Douglas Glorie** Phone: (212) 614-3369  
**STV, Inc.** Fax: (646) 654-1861  
**225 Park Avenue South** Received: 11/29/13 8:00 AM  
**New York, NY 10003**

Project: 3016436

**Analytical Results**

<i>Client Sample Description</i>		<i>Collected:</i>		<i>Lab ID:</i>				
PCB-1A,1B,1C Roof AHU-4 and AHU-5		11/25/2013		0001				
<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	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1221	ND	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1232	ND	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1242	ND	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1248	ND	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1254	12	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1260	ND	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1262	ND	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH
3540C/8082A	Aroclor-1268	ND	1.0	mg/Kg	12/2/2013	AB	12/3/2013	EH

**Definitions:**

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

011305972

PROJECT NO.: 3016436

CLIENT: NAVFAC

PROJECT SITE: Naval Station Newport, Newport, Rhode Island

Project Manager: D. Glorie

LOCATION(S) SURVEYED: Bldg. 446 CHI, SWOS, Site/Project Specific Areas

PROPOSED PROJECT: Bldg. 446 HVAC Replacement

DATE(S) OF INSPECTION: 11/25/13

Inspector(s): D. Glorie

STV Incorporated  
225 Park Avenue South, New York, NY 10003

RESULTS TO: D. Glorie FAX NO.: 212-529-5237  
Douglas.glorie@stvinc.com

TURNAROUND TIME: 5 days

HA	SAMPLE NO.	CAULK DESCRIPTION	CAULK LOCATION	APPROX. QUANTITY (LF/SF)	CAULK USE / FIELD NOTES
	PCB-1A	GRAY SEAM CAULK	ROOF AHU-4 AND AHU-5	730	ACM #12
	PCB-1B				
	PCB-1C				

EMSL MANHATTAN LAB RECEIVED  
2013 NOV 27 AM 10:16

CHAIN OF CUSTODY

Received by (print)	Signature	Date	Received by (print)	Signature	Date	Received by (print)	Signature	Date
D. Glorie	[Signature]	11/25/13	ETAMANO	[Signature]	11/29/13			
Robert A [Signature]	[Signature]	11/27/13	ETAMANO	[Signature]	11/29/13			

LAB INSTRUCTIONS: Composite A, B, C Samples. Create one (1) composite sample from equal mass portions (+ 5%) of the three (3) sub-samples for extraction and analysis via EPA Method 4131. RECORD IN PLASTIC - EZ

**STV INCORPORATED**

**ASBESTOS SURVEY DATA SHEET/CHAIN OF CUSTODY**

**PROJECT NO.:** 3016436

**CLIENT:** NAVFAC

**PROJECT SITE:** Naval Station Newport, Newport, Rhode Island

**Project Manager:** D. Glorie

**LOCATION(S) SURVEYED:** Bldg. 446 CHI, SWOS, Site/Project Specific Areas

**PROPOSED PROJECT:** Bldg. 446 HVAC Replacement

**DATE(S) OF INSPECTION:**

**Inspector(s):** D. Glorie, M. Natanov

STV Incorporated  
Address: 225 Park Avenue South, New York, NY 10003  
Telephone No.: 212-505-4930

**RESULTS TO:** D. Glorie FAX NO.: 212-529-5237  
dougias.glorie@stvinc.com

**TURNAROUND TIME:** 5 days

03/425997

HA	SAMPLE NO.	MATERIAL DESCRIPTION	SAMPLE LOCATION	APPROX. QUANTITY (LF/SF)	CONDITION AND FRIABILITY
18	23-1	Cinder block mortar (gray)	Room 262		
	23-2		Room 263		
	23-3		Room 145		
19	24-1	wood fiber board (brown)	Roof - NW		
	24-2		- SW		
	24-3		- SE		
20	25-1	Asphalt like tar membrane (black)			
	25-2				
	25-3				

2014 JUL -3 PM 3:07

**CHAIN OF CUSTODY**

Relinquished by: <i>M. Natanov</i> (Sign)	7/3/14	1500	Relinquished by: (print)	AWPM	Relinquished by: (Sign)	/ /	AWPM
Received by: <i>X. Culver</i> (print)	7/3/14	107	Received by: (print)	AWPM	Received by: (Sign)	/ /	AWPM

GENERAL NOTES: All inconclusive NOBs to be analyzed by TEM. Please stop at 1st positive in any homogeneous group.



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018  
Phone/Fax: (212) 290-0051 / (212) 290-0058  
http://www.EMSL.com / manhattanlab@emsl.com

EMSL Order ID: 031425997  
Customer ID: STVI62  
Customer PO:  
Project ID: NAVFAC

**Attn:** Douglas Glorie  
STV, Inc.  
225 Park Avenue South  
New York, NY 10003

**Phone:** (212) 614-3369  
**Fax:** (646) 654-1861  
**Collected:** 7/3/2014  
**Received:** 7/03/2014  
**Analyzed:** 7/07/2014

**Proj:** 3016436/ NAVFAC/ NAVAL STATION NEW PORT/ NEWPORT, RHODE ISLAND/ BLDG 446 CHI, SWOC SITE/  
PROJECT SPECIFIC AREAS (NAVFAC)

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

**Client Sample ID:** 23-1 **Lab Sample ID:** 031425997-0001  
**Sample Description:** CINDERBLOCK MORTAR (GRAY)/ROOM 262

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Gray	0%	100%	None Detected	

**Client Sample ID:** 23-2 **Lab Sample ID:** 031425997-0002  
**Sample Description:** CINDERBLOCK MORTAR (GRAY)/ROOM 263

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Gray	0%	100%	None Detected	

**Client Sample ID:** 23-3 **Lab Sample ID:** 031425997-0003  
**Sample Description:** CINDERBLOCK MORTAR (GRAY)/ROOM 145

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Gray	0%	100%	None Detected	

**Client Sample ID:** 24-1 **Lab Sample ID:** 031425997-0004  
**Sample Description:** WOOD FIBERBOARD (BROWN)/ROOF NW

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Brown	94%	6%	None Detected	

**Client Sample ID:** 24-2 **Lab Sample ID:** 031425997-0005  
**Sample Description:** WOOD FIBERBOARD (BROWN)/ROOF SW

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Brown	95%	5%	None Detected	

**Client Sample ID:** 24-3 **Lab Sample ID:** 031425997-0006  
**Sample Description:** WOOD FIBERBOARD (BROWN)/ROOF SE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Brown	85%	15%	None Detected	

**Client Sample ID:** 25-1 **Lab Sample ID:** 031425997-0007  
**Sample Description:** ASPHALT LIKE TAR MEMBRANE (BLACK)/ROOF SE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Brown/Black	52%	48%	None Detected	



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018  
Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> / [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order ID: 031425997  
Customer ID: STVI62  
Customer PO:  
Project ID: NAVFAC

## Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

*Client Sample ID:* 25-2 *Lab Sample ID:* 031425997-0008  
*Sample Description:* ASPHALT LIKE TAR MEMBRANE (BLACK)/ROOF SE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Brown/Black	55%	45%	None Detected	

*Client Sample ID:* 25-3 *Lab Sample ID:* 031425997-0009  
*Sample Description:* ASPHALT LIKE TAR MEMBRANE (BLACK)/ROOF SE

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	07/07/2014	Black	22%	78%	None Detected	



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018  
Phone/Fax: (212) 290-0051 / (212) 290-0058  
<http://www.EMSL.com> / [manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order ID: 031425997  
Customer ID: STVI62  
Customer PO:  
Project ID: NAVFAC

**Attn:** Douglas Glorie  
STV, Inc.  
225 Park Avenue South  
New York, NY 10003  
**Phone:** (212) 614-3369  
**Fax:** (646) 654-1861  
**Collected:** 7/ 3/2014  
**Received:** 7/03/2014  
**Analyzed:** 7/07/2014  
**Proj:** 3016436/ NAVFAC/ NAVAL STATION NEW PORT/ NEWPORT, RHODE ISLAND/ BLDG 446 CHI, SWOC SITE/  
PROJECT SPECIFIC AREAS (NAVFAC)

The samples in this report were submitted for asbestos bulk analysis. The reference number for these samples is the Order ID above. Please use this reference number when calling about these samples.

Sample Receipt Date: 07/03/2014  
Analysis Completed Date: 07/07/2014

Sample Receipt Time: 3:07 pm  
Analysis Completed Time: 5:27 pm

**Analyst(s):**

Daena Charles PLM (3)

Kamel Alawawda PLM (6)

**Reviewed and approved by:**

James Hall, Laboratory Manager  
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

**APPENDIX C**  
**Sample Location Plans**







## **A P P E N D I X   D**

- D-1 Summary of Limited Asbestos-Containing Materials Survey Results**
- D-2 Summary of Positive Asbestos-Containing Materials Sample Results**
- D-3 Summary of Lead-Containing Paint Survey Results**
- D-4 Summary of Limited PCB Sample Results**
- D-5 Summary of Universal Waste Items**



**TABLE D-1**  
**SUMMARY OF LEAD-CONTAINING PAINT SAMPLE RESULTS**  
**NAVFAC - HVAC REPLACEMENT - BUILDING 446 CHI, SWOS**  
**NAVAL STATION NEWPORT, NEWPORT, RI**

HOMOGENEOUS AREA	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLE LOCATION	PLM RESULT	TEM RESULT
1	1-1	Fireproofing	Mechanical Room 155	NAD	NA
1	1-2	Fireproofing	Mechanical Room 155	NAD	NA
1	1-3	Fireproofing	Mechanical Room 155	NAD	NA
2	2-1	Silver Tape on Fiberglass Duct Insulation	Room 107	NAD	NA
2	2-2	Silver Tape on Fiberglass Duct Insulation	Corridor @ Room 106	NAD	NA
2	2-3	Silver Tape on Fiberglass Duct Insulation	Room 207	NAD	NA
3	3-1	Silver Paper on Fiberglass Duct Insulation	Room 107	NAD	NA
3	3-2	Silver Paper on Fiberglass Duct Insulation	Corridor @ Room 106	NAD	NA
3	3-3	Silver Paper on Fiberglass Duct Insulation	Room 207	NAD	NA
4	4-1	Gray Duct Tape on HVAC Register	Room 107	NAD	NA
4	4-2	Gray Duct Tape on HVAC Register	Custodian Equipment Locker	NAD	NA
4	4-3	Gray Duct Tape on HVAC Register	Custodian Equipment Locker	NAD	NA
5	5-1	2' x 4' Ceiling Tile with Pinholes and Fissures	Room 107	NAD	NA
5	5-2	2' x 4' Ceiling Tile with Pinholes and Fissures	Corridor @ Electric Panel #2	NAD	NA
5	5-3	2' x 4' Ceiling Tile with Pinholes and Fissures	Room Adjacent to Room 266	NAD	NA
6	6-1	White Paper on Fiberglass Pipe TSI	Corridor @ Room 106	NAD	NA
6	6-2	White Paper on Fiberglass Pipe TSI	Room 116 @ Wall Unit	NAD	NA
6	6-3	White Paper on Fiberglass Pipe TSI	Room 207	NAD	NA
7	7-1	Gray Mastic on Ceiling Heating Unit to Duct	Room 110	NAD	NA
7	7-2	Gray Mastic on Ceiling Heating Unit to Duct	Room 110	NAD	NA
7	7-3	Gray Mastic on Ceiling Heating Unit to Duct	Room 110	NAD	NA
8	8-1	White Mastic on Fiberglass Pipe Insulation	Room 110	NAD	NA
8	8-2	White Mastic on Fiberglass Pipe Insulation	Room 110	NAD	NA
8	8-3	White Mastic on Fiberglass Pipe Insulation	Room 110	NAD	NA
9	9-1	Gray Duct Seam Sealant	Room 127	NAD	NA
9	9-2	Gray Duct Seam Sealant	Room 127	NAD	NA
9	9-3	Gray Duct Seam Sealant	Room 127	NAD	NA
10	10-1	Black Flashing Outer Layer	Roof AHU-4 and AHU-5	NAD	NA
10	10-2	Black Flashing Outer Layer	Roof AHU-4 and AHU-5	NAD	NA
10	10-3	Black Flashing Outer Layer	Roof AHU-4 and AHU-5	NAD	NA
11	11-1	<b>Black Flashing Layer 2</b>	<b>Roof AHU-4 and AHU-5</b>	<b>3 % Chrysotile</b>	<b>NA</b>
11	11-2	Black Flashing Layer 2	Roof AHU-4 and AHU-5	NA/PS	NA
11	11-3	Black Flashing Layer 2	Roof AHU-4 and AHU-5	NA/PS	NA
12	12-1	Gray Seam Caulk	Roof AHU-4 and AHU-5	NAD	NA
12	12-2	Gray Seam Caulk	Roof AHU-4 and AHU-5	NAD	NA
12	12-3	Gray Seam Caulk	Roof AHU-4 and AHU-5	NAD	NA
13	13-1	Black Mastic	AHU-4 and AHU-5 Roof	NAD	NA
13	13-2	Black Mastic	AHU-4 and AHU-5 Roof	NAD	NA
13	13-3	Black Mastic	AHU-4 and AHU-5 Roof	NAD	NA
14	14-1	Black Flashing	Roof Exhaust Fan Flashing	NAD	NA
14	14-2	Black Flashing	Roof Exhaust Fan Flashing	NAD	NA
14	14-3	Black Flashing	Roof Exhaust Fan Flashing	NAD	NA
15	15-1	Gray Mastic on Fiberglass Insulation	Roof Chiller	NAD	NA
15	15-2	Gray Mastic on Fiberglass Insulation	Roof Chiller	NAD	NA
15	15-3	Gray Mastic on Fiberglass Insulation	Roof Chiller	NAD	NA
16	16-1	Black Pitch Pocket	Roof Chiller	NAD	NA
16	16-2	<b>Black Pitch Pocket</b>	<b>Roof Chiller</b>	<b>2 % Chrysotile</b>	<b>NA</b>
16	16-3	Black Pitch Pocket	Roof Chiller	NA/PS	NA
17	17-1	TSI on Elbows on Fiberglass Lines	Room 224	NAD	NA
17	17-2	TSI on Elbows on Fiberglass Lines	Room 224	NAD	NA
17	17-3	TSI on Elbows on Fiberglass Lines	Room 224	NAD	NA
DUP-1	18-1	Duplicate Sample of HA # 1	DUPLICATE SAMPLE	NAD	NA
DUP-2	19-1	Duplicate Sample of HA # 15	DUPLICATE SAMPLE	NAD	NA
DUP-3	20-1	Duplicate Sample of HA # 17	DUPLICATE SAMPLE	NAD	NA
DUP-4	21-1	Duplicate Sample of HA # 10	DUPLICATE SAMPLE	NAD	NA
DUP-5	22-1	<b>Duplicate Sample of HA # 11 Black Flashing Layer 2</b>	<b>DUPLICATE SAMPLE</b>	<b>5 % Chrysotile</b>	<b>NA</b>
23	23-1	Cinder Block Mortar (gray)	Room 262	NAD	NA
23	23-2	Cinder Block Mortar (gray)	Room 263	NAD	NA
23	23-3	Cinder Block Mortar (gray)	Room 145	NAD	NA
24	24-1	Wood Fiber Board (brown)	Roof - NW	NAD	NA
24	24-2	Wood Fiber Board (brown)	Roof - SW	NAD	NA
24	24-3	Wood Fiber Board (brown)	Roof - SE	NAD	NA
25	25-1	Asphalt like Tar Membrane (black)	Roof - NW	NAD	NA
25	25-2	Asphalt like Tar Membrane (black)	Roof - SW	NAD	NA
25	25-3	Asphalt like Tar Membrane (black)	Roof - SE	NAD	NA

**1992 Asbestos Survey**

HOMOGENEOUS AREA	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLE LOCATION	PLM RESULT	TEM RESULT
1	01A	Pipe Fitting Insulation	Mechanical Room & 1st. & 2nd. Floors	2 % Chrysotile	NA
1	01B	Pipe Fitting Insulation	Mechanical Room & 1st. & 2nd. Floors	NA/PS	NA
1	01C	Pipe Fitting Insulation	Mechanical Room & 1st. & 2nd. Floors	NA/PS	NA
2	02A	Pipe Insulation	Mechanical Room	40 % Chrysotile	NA
2	02B	Pipe Insulation	Mechanical Room	NA/PS	NA
2	02C	Pipe Insulation	Mechanical Room	NA/PS	NA
3	03A	Tank Insulation	Mechanical Room	55 % Chrysotile	NA

**TABLE D-1**  
**SUMMARY OF LEAD-CONTAINING PAINT SAMPLE RESULTS**  
**NAVFAC - HVAC REPLACEMENT - BUILDING 446 CHI, SWOS**  
**NAVAL STATION NEWPORT, NEWPORT, RI**

HOMOGENEOUS AREA	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLE LOCATION	PLM RESULT	TEM RESULT
3	03B	Tank Insulation	Mechanical Room	NA/PS	NA
3	03C	Tank Insulation	Mechanical Room	NA/PS	NA
4	04A	Fireproofing	Mechanical Room	NAD	NA
4	04B	Fireproofing	Mechanical Room	NAD	NA
4	04C	Fireproofing	Mechanical Room	NAD	NA
5	05A	<b>Preformed 2'x4' Ceiling Tiles</b>	<b>Throughout Building</b>	<b>15 % Chrysotile</b>	<b>NA</b>
5	05B	Preformed 2'x4' Ceiling Tiles	Throughout Building	NA/PS	NA
5	05C	Preformed 2'x4' Ceiling Tiles	Throughout Building	NA/PS	NA
6	06A	Ceiling Tiles	Miscellaneous Areas	NAD	NA
6	06B	Ceiling Tiles	Miscellaneous Areas	NAD	NA
6	06C	Ceiling Tiles	Miscellaneous Areas	NAD	NA
7	07A	Floor Tile	Miscellaneous Areas	NAD	NA
7	07B	Floor Tile	Miscellaneous Areas	NAD	NA
7	07C	Floor Tile	Miscellaneous Areas	NAD	NA
8	08A	<b>Mastic on Floor Tile (HA #7)</b>	<b>Miscellaneous Areas</b>	<b>15 % Chrysotile</b>	<b>NA</b>
8	08B	Mastic on Floor Tile (HA #7)	Miscellaneous Areas	NA/PS	NA
8	08C	Mastic on Floor Tile (HA #7)	Miscellaneous Areas	NA/PS	NA
9	09A	Ceiling Tile	125, 127, 157, 224, 226	NAD	NA
9	09B	Ceiling Tile	125, 127, 157, 224, 226	NAD	NA
9	09C	Ceiling Tile	125, 127, 157, 224, 226	NAD	NA
10	10A	Floor Tile	East & North Stairwells	NAD	NA
10	10B	Floor Tile	East & North Stairwells	NAD	NA
10	10C	Floor Tile	East & North Stairwells	NAD	NA
11	11A	<b>Mastic on Floor Tile (HA #10)</b>	<b>East &amp; North Stairwells</b>	<b>25 % Chrysotile</b>	<b>NA</b>
11	11B	Mastic on Floor Tile (HA #10)	East & North Stairwells	NA/PS	NA
11	11C	Mastic on Floor Tile (HA #10)	East & North Stairwells	NA/PS	NA
12	12A	Floor Tile	Corridors to Bldg 1164	NAD	NA
12	12B	<b>Floor Tile</b>	<b>Corridors to Bldg 1164</b>	<b>2 % Chrysotile</b>	<b>NA</b>
12	12C	Floor Tile	Corridors to Bldg 1164	NA/PS	NA
13	13A	Mastic on Floor Tile (HA# 12)	Corridors to Bldg 1164	NAD	NA
13	13B	Mastic on Floor Tile (HA# 12)	Corridors to Bldg 1164	NAD	NA
13	13C	Mastic on Floor Tile (HA# 12)	Corridors to Bldg 1164	NAD	NA
14	14A	Floor Tile	Miscellaneous Areas	NAD	NA
14	14B	Floor Tile	Miscellaneous Areas	NAD	NA
14	14C	Floor Tile	Miscellaneous Areas	NAD	NA
15	15A	<b>Mastic on Floor Tile (HA# 14)</b>	<b>Miscellaneous Areas</b>	<b>20 % Chrysotile</b>	<b>NA</b>
15	15B	Mastic on Floor Tile (HA# 14)	Miscellaneous Areas	NA/PS	NA
15	15C	Mastic on Floor Tile (HA# 14)	Miscellaneous Areas	NA/PS	NA
16	16A	Floor Tile	Auditorium	NAD	NA
16	16B	Floor Tile	Auditorium	NAD	NA
16	16C	Floor Tile	Auditorium	NAD	NA
17	17A	<b>Mastic on Floor Tile (HA# 16)</b>	<b>Auditorium</b>	<b>10 % Chrysotile</b>	<b>NA</b>
17	17B	Mastic on Floor Tile (HA# 16)	Auditorium	NA/PS	NA
17	17C	Mastic on Floor Tile (HA# 16)	Auditorium	NA/PS	NA
18	18A	Ceiling Tile	Miscellaneous Areas	NAD	NA
18	18B	Ceiling Tile	Miscellaneous Areas	NAD	NA
18	18C	Ceiling Tile	Miscellaneous Areas	NAD	NA
19	19A	Floor Tile	Miscellaneous Areas	NAD	NA
19	19B	Floor Tile	Miscellaneous Areas	NAD	NA
19	19C	Floor Tile	Miscellaneous Areas	NAD	NA
20	20A	<b>Mastic on Floor Tile (HA# 19)</b>	<b>Miscellaneous Areas</b>	<b>25 % Chrysotile</b>	<b>NA</b>
20	20B	Mastic on Floor Tile (HA# 19)	Miscellaneous Areas	NA/PS	NA
20	20C	Mastic on Floor Tile (HA# 19)	Miscellaneous Areas	NA/PS	NA
21	21A	Ceiling Tile	Projection Room	NAD	NA
21	21B	Ceiling Tile	Projection Room	NAD	NA
21	21C	Ceiling Tile	Projection Room	NAD	NA
22	22A	Floor Tile	Various Rooms	NAD	NA
22	22B	Floor Tile	Various Rooms	NAD	NA
22	22C	Floor Tile	Various Rooms	NAD	NA
23	23A	<b>Mastic on Floor Tile (HA# 22)</b>	<b>Various Rooms</b>	<b>15 % Chrysotile</b>	<b>NA</b>
23	23B	Mastic on Floor Tile (HA# 22)	Various Rooms	NA/PS	NA
23	23C	Mastic on Floor Tile (HA# 22)	Various Rooms	NA/PS	NA
24	24A	Floor Tile	Various Rooms	NAD	NA
24	24B	Floor Tile	Various Rooms	NAD	NA
24	24C	Floor Tile	Various Rooms	NAD	NA
25	25A	<b>Mastic on Floor Tile (HA# 24)</b>	<b>Various Rooms</b>	<b>20 % Chrysotile</b>	<b>NA</b>
25	25B	Mastic on Floor Tile (HA# 24)	Various Rooms	NA/PS	NA
25	25C	Mastic on Floor Tile (HA# 24)	Various Rooms	NA/PS	NA
26	26A	Ceiling Tile	120, 218, 221, 228, 230	NAD	NA
26	26B	Ceiling Tile	120, 218, 221, 228, 230	NAD	NA
26	26C	Ceiling Tile	120, 218, 221, 228, 230	NAD	NA
27	27A	<b>Floor Tile</b>	<b>Various Rooms</b>	<b>10 % Chrysotile</b>	<b>NA</b>
27	27B	Floor Tile	Various Rooms	NAD	NA
27	27C	Floor Tile	Various Rooms	NAD	NA
28	28A	Mastic on Floor Tile (HA# 27)	Various Rooms	NAD	NA
28	28B	Mastic on Floor Tile (HA# 27)	Various Rooms	NAD	NA

**TABLE D-1**  
**SUMMARY OF LEAD-CONTAINING PAINT SAMPLE RESULTS**  
**NAVFAC - HVAC REPLACEMENT - BUILDING 446 CHI, SWOS**  
**NAVAL STATION NEWPORT, NEWPORT, RI**

HOMOGENEOUS AREA	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLE LOCATION	PLM RESULT	TEM RESULT
28	28C	Mastic on Floor Tile (HA# 27)	Various Rooms	NAD	NA
29	29A	Ceiling Tile	203	NAD	NA
29	29B	Ceiling Tile	203	NAD	NA
29	29C	Ceiling Tile	203	NAD	NA
30	30A	Floor Tile	West Stairwell, 2nd. Floor	NAD	NA
30	30B	Floor Tile	West Stairwell, 2nd. Floor	NAD	NA
30	30C	Floor Tile	West Stairwell, 2nd. Floor	NAD	NA
31	31A	Mastic on Floor Tile (HA# 30)	West Stairwell, 2nd. Floor	NAD	NA
31	31B	Mastic on Floor Tile (HA# 30)	West Stairwell, 2nd. Floor	NAD	NA
31	31C	Mastic on Floor Tile (HA# 30)	West Stairwell, 2nd. Floor	NAD	NA
32	32A	Cove Base Mastic	Entire Building	NAD	NA
32	32B	Cove Base Mastic	Entire Building	NAD	NA
32	32C	Cove Base Mastic	Entire Building	NAD	NA
33	33A	Sheetrock	Entire Building	NAD	NA
33	33B	Sheetrock	Entire Building	NAD	NA
33	33C	Sheetrock	Entire Building	NAD	NA
34	34A	Joint Compound	Entire Building	NAD	NA
34	34B	Joint Compound	Entire Building	NAD	NA
34	34C	Joint Compound	Entire Building	NAD	NA
35	35A	Sheetrock Tape	Entire Building	NAD	NA
35	35B	Sheetrock Tape	Entire Building	NAD	NA
35	35C	Sheetrock Tape	Entire Building	NAD	NA
36	36A	<b>Cement Ceiling Board</b>	<b>Exterior Overhangs</b>	<b>40 % Chrysotile</b>	<b>NA</b>
36	36B	Cement Ceiling Board	Exterior Overhangs	NA/PS	NA
36	36C	Cement Ceiling Board	Exterior Overhangs	NA/PS	NA
37	37A	Floor Tile	Vault 112	NAD	NA
37	37B	Floor Tile	Vault 112	NAD	NA
37	37C	Floor Tile	Vault 112	NAD	NA
38	38	Fire Door Cores (Assumed)	Entire Buildings	NAD	NA
39	39	Coated Metal (Assumed)	Exterior Walkway	NAD	NA

**Notes:**

NA = Not Analyzed

NAD = No Asbestos Detected During a Quantitative Analysis

NA/PS = Not Analyzed / Positive Stop

ND = None Detected (TEM)

**TABLE D-2**  
**SUMMARY OF LEAD-CONTAINING PAINT SAMPLE RESULTS**  
**NAVFAC - HVAC REPLACEMENT - BUILDING 446 CHI, SWOS**  
**NAVAL STATION NEWPORT, NEWPORT, RI**

MATERIAL DESCRIPTION	SAMPLE LOCATION	FRIABILITY	CONDITION	APPROXIMATE QUANTITY	UNITS
Black Flashing Layer 2	Roof AHU-4 and AHU-5	Non-Friable	Damaged	100	SF
Black Pitch Pocket	Roof Chiller	Non-Friable	Good	50	SF
<b>1992 Asbestos Survey</b>					
Ceiling Tiles	Throughout Building	Friable	Damaged	TBD	SF
Mastic on Floor Tile (HA #7)	Miscellaneous Areas	Non-Friable	Unknown	TBD	SF
Mastic on Floor Tile (HA #10)	East & North Stairwells	Non-Friable	Unknown	TBD	SF
Floor Tile	Corridors to Bldg 1164	Non-Friable	Good	TBD	SF
Mastic on Floor Tile (HA# 14)	Miscellaneous Areas	Non-Friable	Unknown	TBD	SF
Mastic on Floor Tile (HA# 16)	Auditorium	Non-Friable	Unknown	TBD	SF
Mastic on Floor Tile (HA# 19)	Miscellaneous Areas	Non-Friable	Unknown	TBD	SF
Mastic on Floor Tile (HA# 22)	Various Rooms	Non-Friable	Unknown	TBD	SF
Mastic on Floor Tile (HA# 24)	Various Rooms	Non-Friable	Unknown	TBD	SF
Floor Tile	Various Rooms	Non-Friable	Good	TBD	SF
<b>2002 Asbestos Survey</b>					
Roofing Debris on top of Ceiling Tile	Throughout 2nd Floor	Non-Friable	Poor	TBD	SF
<b>2013 Auditorium and Bathroom HVAC project</b>					
12x12 Floor Tile-Under Carpeting	Room 216	Non-Friable	Good	TBD	SF
12x12 Floor Tile	Room 116	Non-Friable	Good	TBD	SF
Black Mastic-Under floor tile	Room 116	Non-Friable	Good	TBD	SF
12x12 Floor Tile-Under carpet	Room 117	Non-Friable	Good	TBD	SF
Black Mastic-Under floor tile	Room 117	Non-Friable	Good	TBD	SF
12x12 Floor Tile	Room 109	Non-Friable	Good	TBD	SF
Black Mastic to 017A	Room 109	Non-Friable	Good	TBD	SF
12x12 Floor Tile	Room 110	Non-Friable	Good	TBD	SF
Black Mastic to 019A	Room 110	Non-Friable	Good	TBD	SF
Wall Skim Coat (Trace Chrysotile)	Rooms 109 and 110	Friable	Damaged	TBD	SF
12x12 Floor Tile	Room 106	Non-Friable	Good	TBD	SF
Black mastic to 024A	Room 106	Non-Friable	Good	TBD	SF
12x12 Floor Tile	Room 107	Non-Friable	Good	TBD	SF
Black mastic-Under floor tile	Room 107	Non-Friable	Good	TBD	SF
<b>October 24, 2011 Report by R.I. Analytical Laboratories</b>					
Red Duct Seam Sealant	Throughout	Non-Friable	Good	40	SF
9"x9" Floor Tiles and associated Mastic	Throughout	Non-Friable	Good	TBD	SF
12"x12" Floor Tiles and associated Mastic	Throughout	Non-Friable	Good	TBD	SF
Shower Ceiling Coating	Rooms 266, 224, 125, 127	Friable	Good	20	SF
<b>Replace Roof Drains Building 446, Asbestos Removal Work (Contract #N62472-97-C-6942)</b>					
Sheetrock Joint Compound	Throughout Building	Friable	Damaged	TBD	SF

NA = Not Analyzed  
NAD = No Asbestos Detected During a Quantitative Analysis  
NA/PS = Not Analyzed / Positive Stop  
ND = None Detected (TEM)  
TBD = To Be Determined based on impact of HVAC Replacement scope of work.

**TABLE D-3**  
**SUMMARY OF LEAD-CONTAINING PAINT SAMPLE RESULTS**  
**NAVFAC - HVAC REPLACEMENT - BUILDING 446 CHI, SWOS**  
**NAVAL STATION NEWPORT, NEWPORT, RI**

<b>SAMPLE NUMBER</b>	<b>FLOOR</b>	<b>LOCATION</b>	<b>COMPONENT</b>	<b>SUBSTRATE</b>	<b>CONDITION</b>	<b>COLOR</b>	<b>LABORATORY RESULT (% BY WEIGHT)</b>
LBP-1	1	MER	Wall	CMU	Fair	Blue	<0.010 % wt
LBP-2	R	Roof	Dunnage	Metal	Poor	Light Blue	<0.010 % wt
LBP-3	1	DUP-1	Wall	CMU	Fair	Blue	<0.010 % wt

**2002 Asbestos Survey**

446-01	1	Room 116	Steel Beams	Metal	Good	Not Reported	17.09%
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**2013 Auditorium and Bathroom HVAC project**

PB-2	1	Room 116	Not provided				0.06%
PB-3	1	Room 117	Not provided				0.08%
PB-4	1	Room 116	Not provided				0.06%

**TABLE D-4**  
**SUMMARY OF LEAD-CONTAINING PAINT SAMPLE RESULTS**  
**NAVFAC - HVAC REPLACEMENT - BUILDING 446 CHI, SWOS**  
**NAVAL STATION NEWPORT, NEWPORT, RI**

ANALYSIS	ANALYTE	SAMPLE ID	PCB-1A, 1B, 1C
		DESCRIPTION	Gray on Seam
		SAMPLE DATE	11/25/2013
		LOCATION	Roof AHU-4 and AHU-5
PCBs (mg/Kg)	Aroclor-1016	mg/Kg	ND
	Aroclor-1221	mg/Kg	ND
	Aroclor-1232	mg/Kg	ND
	Aroclor-1242	mg/Kg	ND
	Aroclor-1248	mg/Kg	ND
	Aroclor-1254	mg/Kg	12
	Aroclor-1260	mg/Kg	ND
	Aroclor-1262	mg/Kg	ND
	Aroclor-1268	mg/Kg	ND
	Total PCBs	mg/Kg	12

**Notes:**

mg/Kg = milligram per kilogram or parts per million (ppm).

N/A = Not Applicable

PCBs = Polychlorinated Biphenyls

1. Analysis by Reference Methods EPA SW-846 3540C Soxhlet Extraction and SW-846 8082A

**TABLE D-5**  
**SUMMARY OF LEAD-CONTAINING PAINT SAMPLE RESULTS**  
**NAVFAC - HVAC REPLACEMENT - BUILDING 446 CHI, SWOS**  
**NAVAL STATION NEWPORT, NEWPORT, RI**

<b>Hazardous Material</b>	<b>Description</b>	<b>Location</b>	<b>Approximate Quantity</b>
Mercury	Fluorescent Light Bulbs (Mercury)	Throughout	TBD
PCB	Fluorescent Light Ballasts (PCB)	Throughout	TBD
Refrigerant	Air Handling Units	Roof	2 Each
Refrigerant	Chiller and piping	Roof	1 Each
Refrigerant	Split AC Units	Roof	2 Each
Mercury	Controls, thermostats	Throughout	45

Note: Only universal waste impacted by the scope of work will be included in the design



Hazardous Materials Report  
Building 446 HVAC Replacement  
Naval Station Support  
1 Simonpietri Drive  
Newport, RI 02841

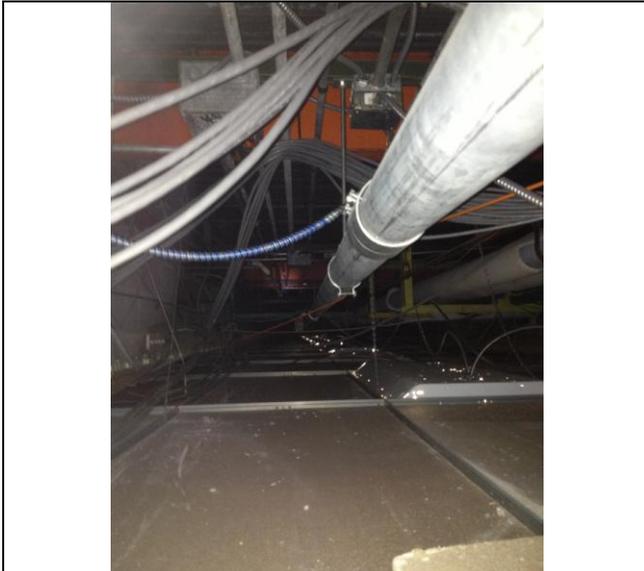
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## **A P P E N D I X   E**

### **Photo Log**



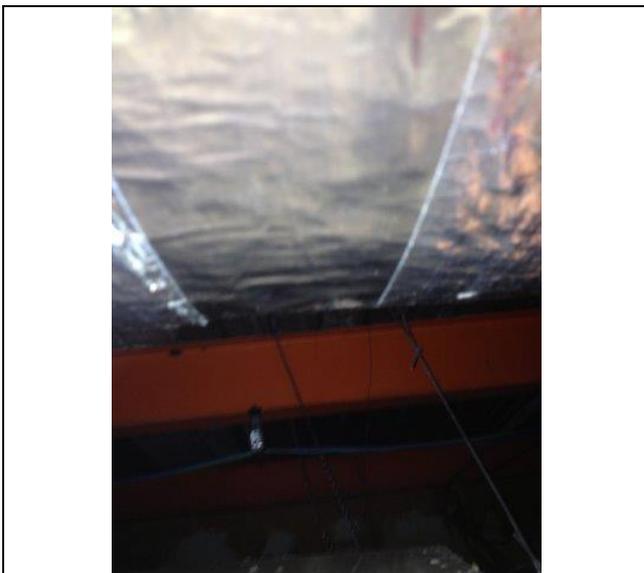
Photos taken on November 25<sup>th</sup>, 2013



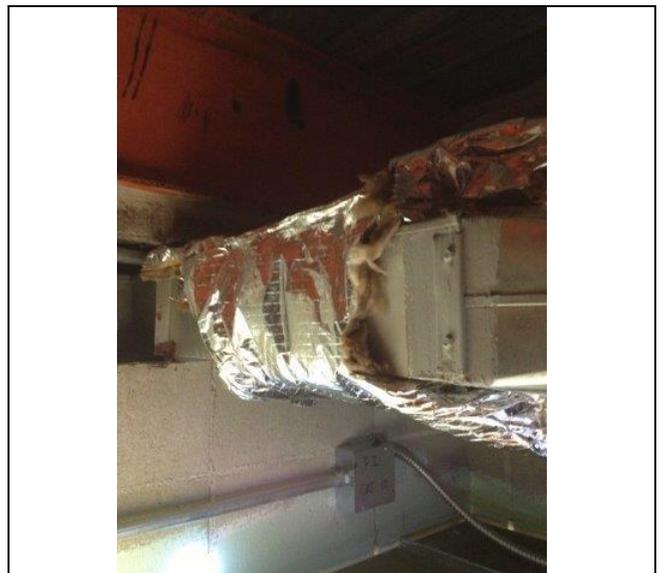
**A1** Debris on Top of Ceiling Tiles –  
(Positive ACM) Second Floor Only



**A2** HA # 1 - Room 155 Fireproofing (Non  
ACM)



**A3** HA # 2 - Silver Tape on Fiberglass Duct  
Insulation



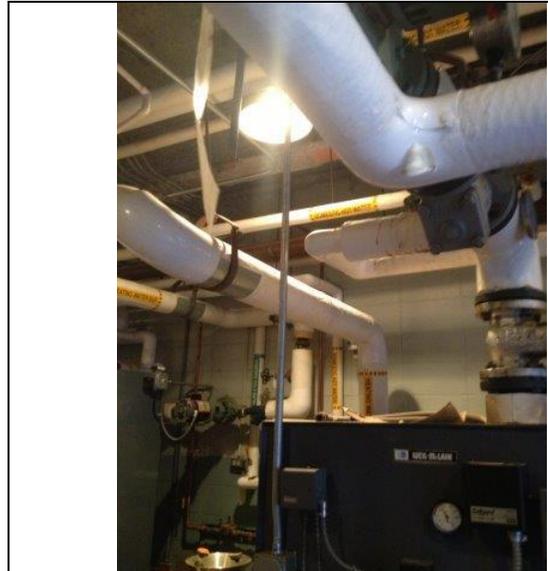
**A4** HA # 3 Silver Tape on Fiberglass Duct  
Insulation (Non ACM)

Photos taken on November 25<sup>th</sup>, 2013



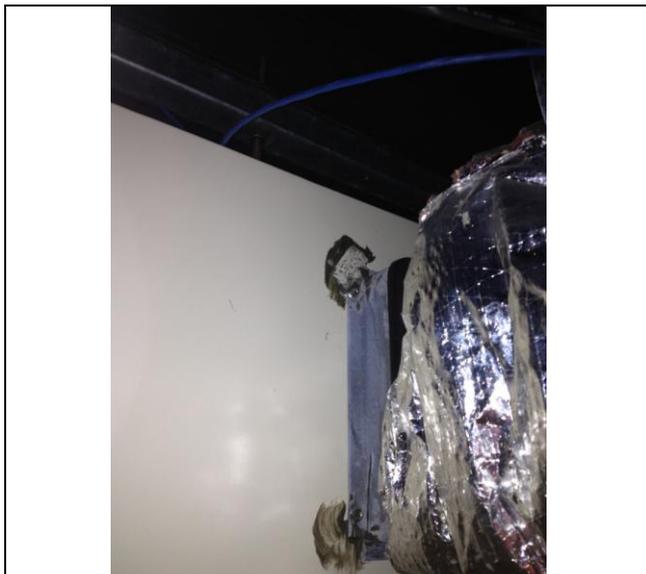
**A5**

**HA#5 – Room 107 – 2' x 4' Ceiling Tile with Pinholes & Fissures – (Non ACM)**



**A6**

**HA # 6 - White Paper on Fiberglass Pipe TSI**



**A7**

**HA # 7 – Gray Mastic on Ceiling Heating Unit to Duct (Non ACM)**



**A8**

**HA # 9 – Room 127 – Gray Duct Seam Sealant – (Non ACM)**

Photos taken on November 25<sup>th</sup>, 2013



**A9 HA # 11 - Black Flashing**



**A10 HA # 16 - Black Pitch Pocket at Chiller**



**A11 Red Duct Seam Sealant (Positive ACM)**

