

October 21, 2014

The Johnson McAdams Firm
P.O. Box 513
Greenwood, Mississippi 38935-0513

Attn: Ms. Rebecca P. Palmer
Vice President

RE: **Report of Asbestos & Lead Assessment Services**
Coast Guard Station Buildings
196 N Carolina 33
Hobucken, Pamlico County, North Carolina
PSI Project Number: 0457611

Dear Ms. Palmer:

Professional Service Industries, Inc. (PSI) is forwarding one (1) copy of the Asbestos and Lead Assessment Services Report for the above referenced facility. The scope of work included an assessment for suspect asbestos containing materials (ACM) and a limited lead-based paint (LBP) assessment. The report includes a project introduction, the scope of services, methodology, findings, laboratory analysis and inspector certifications.

If you have any questions or comments concerning this report, please contact me at (704) 598-2234.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Kyle Russell
Project Manager

Brian Kasher
Principal Consultant

**ASBESTOS AND LEAD
ASSESSMENT SERVICES REPORT**

For the

**COAST GUARD STATION BUILDINGS
196 N CAROLINA 33
HOBUCKEN, PAMLICO COUNTY,
NORTH CAROLINA**

Prepared for

**THE JOHNSON MCADAMS FIRM
P.O. BOX 513
GREENWOOD, MISSISSIPPI 38935-0513**

Prepared By

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PSI PROJECT NO. 0457611

October 21, 2014



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1. EXECUTIVE SUMMARY

Professional Service Industries, Inc. (PSI) has conducted Asbestos and Lead Assessment Services at the above referenced property. Mr. Kyle Russell, Environmental Project Manager for PSI conducted the site visit on October 14, 2014.

The purpose of the Asbestos and Lead Assessment Services was to determine the possible presence of asbestos-containing materials (ACM) and lead-based paint (LBP), which may impact future demolition activities including worker safety and the disposal of the demolished building materials.

The subject property is located at 196 North Carolina Highway 33 in Hobucken, Pamlico County, North Carolina and consists of three (3) small one-story support structures encompassing approximately a total of 1,020 square feet. The Bos'n Hole building (OS2) totals approximately 600 square feet; the DC shop (OS1) totals approximately 400 square feet, and the guard shack (UE1) totals approximately 20 square feet. The structures are currently unoccupied and used primarily for storage purposes.

The scope of work included an Asbestos Pre-Demolition Survey and a limited lead-based paint (LBP) assessment at the subject property.

The purpose of the limited LBP assessment was to evaluate the presence of lead in paint for the purposes of demolition/renovation.

The purpose of the Asbestos Pre-Demolition Survey was to identify suspect ACM. This survey will meet all National Emission Standards for Hazardous Air Pollutants (NESHAP) sampling requirements for a demolition survey in respect to the materials sampled. Roofing materials and exterior surfaces were sampled as part of this assessment. A summary table listing all ACM identified in the structure is located in the findings section on page 9 through 10 of this report. Mr. Kyle Russell, North Carolina Asbestos Inspector #12283, conducted the sampling survey and visual condition assessment on October 14, 2014.

Twenty-seven (27) samples were collected from thirteen (13) homogeneous areas and submitted for laboratory analysis. A total of forty (40) sample layers were analyzed by PLM. The U.S. EPA considers a building material to be an ACM if at least one sample of this material contains greater than one percent (>1%) asbestos when analyzed by PLM. The following ACMs were identified during this assessment at the subject property:

- None

Paint-chip samples were collected in eight (8) representative locations for laboratory testing by an AIHA and NLLAP accredited analytical methodology. **Lead-based paint (>0.5%) was identified on the interior wall paint of the attic of the Bos'n Hole building (sample P-2). Distressed and peeling paint was observed in several areas throughout the structures, with the exception of the exterior soffit paint taken**

(sample P-7) from the DC Shop. Lead containing paint (<0.05%) was identified in all of the areas sampled.

Recommendations

- Prior to any future maintenance, renovation or demolition activities, any suspect building materials not tested in the current assessment (such as concealed areas) should be tested for the presence of asbestos before disturbance thereof.
- Employers whose workers disturb materials containing asbestos should comply with the applicable sections of the Occupational Safety and Health Administration (OSHA) Asbestos Standard.
- PSI recommends that all aspects of the OSHA Lead in Construction Standard 1926.62 are complied with during any future maintenance, renovation or demolition of the subject buildings.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

This report is not intended to be used as a bid document.

2. INTRODUCTION

Professional Service Industries, Inc. (PSI) has conducted Asbestos and Lead Assessment Services at the above referenced property. Mr. Kyle Russell, Environmental Project Manager for PSI conducted the site visit on October 14, 2014.

The purpose of the Asbestos and Lead Assessment Services was to determine the possible presence of asbestos-containing materials and lead-based paint, which may impact future maintenance, renovation or demolition activities, including worker safety and the disposal of the demolished building materials.

The survey was generally conducted in three phases as follows:

- **Phase 1 - Initial Evaluation** - A preliminary evaluation was conducted by PSI, which included interviews and a visual survey of the structure. This information was used to focus the scope of work to be followed over the course of the sampling events.
- **Phase 2 – Bulk Sample Collection** - A sampling plan was developed under the direction of a PSI Asbestos and Lead Principal Consultant (PC). Bulk material samples were collected of suspect ACM and LBP. The bulk material samples and LBP chips were submitted to EMSL Analytical, Inc. in Charlotte, North Carolina to be analyzed.
- **Phase 3 - Project Report** - This report outlines the survey findings based on the sampling results and field observations. The report also discusses other observations concerning the building as they impacted the sampling events. This report includes discussion of sampling methodology, locations, analytical methods, results, and conclusions.

2.1 AUTHORIZATION

The assessment services were performed pursuant the terms and conditions of the agreement between PSI and The Johnson McAdams Firm, referenced by PSI proposal number 0457-135666, dated October 8, 2014. Authorization to perform the assessment was given by Ms. Rebecca P. Palmer of The Johnson McAdams Firm.

2.2 SITE DESCRIPTION

The subject property is located at 196 North Carolina Highway 33 in Hobucken, Pamlico County, North Carolina and consists of three (3) small one-story support structures encompassing a total of approximately 1,020 square feet. The Bos'n Hole building (OS2) totals approximately 600 square feet, the DC shop (OS1) totals approximately 400 square feet, and the guard shack (UE1) is totals approximately +20 square feet. The structures are currently unoccupied and used primarily for storage purposes.

2.3 PROJECT BACKGROUND

Client-supplied information indicates that the subject property is being considered for demolition in the upcoming months. A Pre-Demolition Asbestos Survey and limited lead-paint assessment is required for informational purposes and permitting requirements.

2.4 PURPOSE AND SCOPE

The scope of the project included a Pre-Demolition Asbestos Survey, and a limited LBP assessment at the subject property.

The purpose of the Asbestos Pre-Demolition Survey was to identify suspect ACM. This survey will meet all National Emission Standards for Hazardous Air Pollutants (NESHAP) sampling requirements for a demolition survey in respect to the materials sampled. Roofing materials and exterior surfaces were sampled as part of this assessment. Mr. Kyle Russell, North Carolina Asbestos Inspector #12883, conducted the sampling survey and visual condition assessment on October 14, 2014.

This report is not intended to be used as a bid document.

The purpose of the limited LBP assessment was to evaluate the presence of lead based paint for the information and property valuation purposes.

The scope of the project is outlined below:

- Collection of bulk samples of suspect ACM materials throughout the structure, to be analyzed by Polarized Light Microscopy (PLM).
- Quantification of suspect ACM building materials.
- Collection of paint chip samples to be analyzed for lead content by Method SW 846 3050B/7000B.

The assessment was completed in general accordance with the authorized scope of work.

3. ASSESSMENT ACTIVITIES

3.1 LIMITED ACM ASSESSMENT

An Environmental Protection Agency (EPA) accredited and North Carolina licensed inspector performed the limited asbestos assessment and condition assessment. An initial building walk-through was conducted to determine the presence of suspect materials that were accessible and/or exposed.

PSI's inspector accessed each room or area of the subject site to identify suspect homogenous areas of ACM. Suspect ACM was categorized into homogeneous areas on the basis of color, texture, appearance, use and apparent construction era (where available). Each homogeneous area was given a unique material description. Quantities were visually estimated by the inspector.

PSI's visual inspection included only those areas which were accessible and/or exposed to the inspector at the time the inspection was conducted. Areas behind closed systems such as drywall or plaster ceilings were not accessible for the purpose of this survey. No intrusive evaluations were performed.

In addition to the identification of each material and their respective approximate quantities, the inspector also determined friability. A friable material is defined as any material able to be crushed, crumbled, pulverized or reduced to a powder by hand pressure when dry. The inspector used a hand pressure test to determine friability. Each material was further assessed for overall condition. Conditions were rated as good, fair or poor. Materials in good condition included those materials which were in the same condition as when installed showing only minor age deterioration. Materials in fair condition included those materials which had apparent age deterioration and minor damage; however the matrix of the material remained substantially intact. Materials in poor condition included all materials with damage or significant damage and evidence that the material's matrix has failed or has begun to fail.

Following the walk-through, the inspector collected samples of selected materials identified as suspect ACM. Sampling included a limited number of suspect asbestos containing materials. Each sample location was sprayed with amended water and was kept wet during the entire sampling process. Samples were collected by coring through the material from the surface down to the base substrate. All layers of the material were extracted and placed into a sample container for transport to the laboratory. Sample containers were sealed and labeled with a unique sample id. Following sample extraction, the sample location was sealed using a clear liquid encapsulant or covered with tape. Restoration of finishes and materials to their pre-sampling condition was not provided.

Sampling was conducted in general accordance with EPA guidelines. Sample locations were chosen to be representative of the homogeneous sampling area.

Method of Analysis - PLM

Analysis was performed by using the bulk sample for visual observation and slide preparation(s) for microscopic examination and identification. The samples were mounted on slides and then analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), fibrous nonasbestos constituents (mineral wool, paper, etc.) and nonfibrous constituents. Samples were analyzed by Polarized Light Microscopy (PLM) and the EPA Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116 July 1993).

The microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample, using a stereoscope.

Point Counting Analysis

The EPA Asbestos NESHAP Revision, Final Rule, revised the definition of friable asbestos containing materials. The EPA requires samples determined to be less than 10 percent asbestos by PLM analysis to be further analyzed by point counting procedures. The purpose of point counting is to verify the accuracy of results. Generally, this process constitutes counting the actual asbestos fibers in the sample to obtain more accurate percent asbestos. The EPA has determined the accuracy of analysis from samples containing less than 10 percent asbestos may vary. This is dependent upon several factors including the following: 1) sample homogeneity, 2) asbestos content, 3) asbestos fiber size, 4) the interference of matrix/binding material, and 5) the skill of the microscopist. The client has the option to assume the results are accurate for samples containing more than 1 percent to less than 10 percent asbestos, thus deleting the point counting requirement. It should be noted samples containing 1 percent or less (trace) asbestos can be verified to be non-ACM only by the point counting procedure and have to be treated as ACM until done so.

No samples were analyzed by PLM point count as part of this survey.

3.2 LIMITED LBP ASSESSMENT

A limited lead-based paint assessment was conducted to provide preliminary information on the presence of leaded paints. The intent of the survey was to provide the client with a general idea of the location of lead based paint present on the interior and exterior of the building.

The survey is not intended to be a comprehensive survey of all lead-containing paints potentially present at the property. The survey was conducted in general accordance with EPA guidelines; however, its limited nature is not intended to meet the strict requirements of a Department of Housing and Urban Development (HUD) or OSHA

survey. No prior lead-based paint survey reports, abatement records, or building specifications were made available to us by the client.

A visual inspection of the assessment area was conducted by a PSI inspector to determine representative painted materials, which were visually similar in color, substrate, general appearance, and which appear to have been installed or painted at the same time. The assessment included a visual survey of the painted surfaces of interior and exterior components which are accessible and/or exposed. The condition of painted surfaces, including cracking, peeling, flaking or dusting was also noted.

Sampling locations were chosen randomly to be representative of the homogeneous painted areas. Where possible, based on random sample locations, samples were taken preferentially from already distressed painted surfaces. Attempts were made to perform tests for each paint color identified within the assessment area with a unique painting history.

Sample analyses for paint chip samples were performed by Atomic Absorption Spectrometry (AAS) using U.S. EPA Method SW-846-7420. Analysis results of 0.5 percent (%) or greater by weight are considered positive for lead-based paint as per the U.S. EPA and HUD. OSHA regulates lead-containing paint at any detectable level.

An Environmental Lead Proficiency Analytical Testing Program (ELPAT)/ National Lead Laboratory Accreditation Program (NLLAP) Accredited Laboratory performed the analysis for paint-chip samples.

4. DATA ANALYSIS & INTERPRETATION

Analysis and interpretation of the data generated during the field investigation and laboratory analytical results is presented in the following sections. Where appropriate, the results are compared with regulatory limits, if available, or industry standard guidelines for the chemicals, compounds, and physical measures identified in this assessment.

4.1 BUILDING DESCRIPTION

The Bos'n Hole building at the subject property is a one-story wood and aluminum building finished with vinyl siding on top of a poured concrete floor. Interior finishes include exposed concrete floors, wood paneling and resilient wall boards and plywood ceilings. The heating, ventilation and air conditions (HVAC) systems were removed. The former HVAC system appeared to be located in the central portion of the structure. Roofing systems consist of asphalt roof singles and roof paper over an aluminum sheet ceiling. The structure is currently unoccupied and used for storage space.

The DC shop at the subject property is a one-story masonry building with brick veneer. Interior finishes include exposed concrete floors, painted cinderblock walls, and an exposed metal deck ceiling. No heating, ventilation, and air condition (HVAC) systems were located in the DC shop. Roofing systems consist of a built up roof (membrane over foam insulation and steel decking) on top of a metal deck. The structure is currently unoccupied and used for storage space.

The guard shack at the subject property is a one-story, approximate 4'x5' structure. The structure was a plywood structure finished with aluminum siding. The interior floor was finished with 12"x12" ceramic floor tiles. The structure is currently unoccupied.

Suspect ACM sampled during this survey included roofing materials, flooring and associated mastics, floor leveler, wall glue, caulking and sealants, resilient wall board and duct wrap. Suspect sample locations are presented in Appendix I.

4.2 ACM LABORATORY RESULTS

Twenty-seven (27) samples were collected from thirteen (13) homogeneous areas and submitted for laboratory analysis. A total of forty (40) sample layers were analyzed by PLM. The U.S. EPA considers a building material to be an ACM if at least one sample of this material contains greater than one percent (>1%) asbestos when analyzed by PLM. The following ACMs were identified during this assessment at the subject property:

- None

Asbestos-containing materials were not identified at the subject property during the assessment. Summaries of the asbestos sampling results are presented in Table 1. The complete analytical results are included in Appendix II.

Table 1 – Asbestos Summary of PLM Laboratory Results – Coast Guard Station Building, Hobucken, NC

Sample Number	Material Description and Homogeneous Sampling Areas	Sample Location	Asbestos Type & Percent	Friable	Condition	Approximate Quantity and Material Classification
OS2-1, OS2-2	Resilient Wall Board	Bos'n Hole - Interior Walls	NAD	No	Good	Misc.
OS2-3, OS2-4	White Door & Window Caulking	Bos'n Hole - Window & Door	NAD	No	Good	Misc.
OS2-5, OS2-6	Asphalt Shingle & Roof Tar Paper	Bos'n Hole - Roof	NAD	Yes	Good	Misc.
OS2-7, OS2-8, OS2-9	White Duct Wrap	Bos'n Hole - Interior Wall Duct Penetration	NAD	No	Good	TSI
OS2-10, OS2-11	White Interior Sealant	Bos'n Hole - Interior Wall	NAD	No	Good	Misc.
OS2-12, OS2-13	Gray Floor Leveler	Bos'n Hole - Storage Room Floor	NAD	No	Good	Misc.

Notes:

- 1.) PLM = Polarized Light Microscopy
- 2.) NAD = No Asbestos Detected
- 3.) SF = Square Feet
- 4.) Material Classification: either Thermal System Insulation (TSI), Surfacing, or Misc. (Miscellaneous)

Table 1 – Asbestos Summary of PLM Laboratory Results – Coast Guard Station Buildings, Hobucken, NC

Sample Number	Material Description and Homogeneous Sampling Areas	Sample Location	Asbestos Type & Percent	Friable	Condition	Approximate Quantity and Material Classification
OS1-1, OS1-2	Red Fire Stop	DC Shop – Exterior Wall	NAD	No	Good	Misc.
OS1-3, OS1-4	Asphalt Roof Shingle	DC Shop – Slanted Roof	NAD	No	Good	Misc.
OS1-5, OS1-6	White Door Caulking	DC Shop- Door	NAD	No	Good	Misc.
OS1-7, OS1-8	Built-up Roof	DC Shop – Flat Roof	NAD	No	Good	Misc.
UE1-1, UE1-2	White Window Caulking	Guard Shack - Window	NAD	No	Good	Misc.
UE1-3, UE1-4	Clear Wall Sealant	Guard Shack - Interior	NAD	No	Good	Misc.
UE1-5, UE1-6	12"x12" Green Floor Tile Yellow Mastic	Guard Shack - Interior	NAD	No	Good	Misc.

Notes:

- 1.) PLM = Polarized Light Microscopy
- 2.) NAD = No Asbestos Detected
- 3.) SF = Square Feet; LF = Linear Feet
- 4.) Material Classification: either Thermal System Insulation (TSI), Surfacing, or Misc. (Miscellaneous)

4.3 LBP LABORATORY RESULTS

Paint-chip samples were collected in eight (8) representative locations for laboratory testing by an AIHA and NLLAP accredited analytical methodology. Efforts were made to collect paint-chip samples from locations where paint was peeling and in poor condition. PSI was not responsible for restoring the sampled areas to their pre-sampled condition.

Detectable levels of lead were found in samples collected from the subject property.

Laboratory Results – Suspect Lead Paint			
Sample ID	Description	Location	% Lead by Weight
P-1	Blue Paint	Bos'n Hole Interior (Conduit)	0.039 %
P-2	White + Yellow Paint	Bos'n Hole Interior (Attic)	1.3 %
P-3	Red Floor Paint	Bos'n Hole Interior (Floor)	0.35 %
P-4	White + Green Wall Paint	Bos'n Hole Interior (Walls)	0.060 %
P-5	Red + Yellow Tank Paint	DC Shop Exterior (Tank)	0.29 %
P-6	White Wall Paint	DC Shop Interior (Conduit)	0.21 %
P-7	White Wall Paint	DC Shop Interior (CMU Wall)	0.18 %
P-8	White Soffit Paint	DC Shop Exterior (Soffit)	0.092 %

Lead-based paint (>0.5%) was identified on the interior wall paint of the attic of the Bos'n Hole building (sample P-2). Distressed and peeling paint was observed in several areas throughout the structures, with the exception of the exterior soffit paint taken (sample P-7) from the DC Shop. Lead containing paint was identified in all of the areas sampled.

Complete laboratory results are appended.

5. CONCLUSIONS & RECOMMENDATIONS

PSI has performed Asbestos and Lead Assessment Services at the subject site in general accordance with the scope of work. Based on the results of this assessment, the following conclusions and recommendations have been developed.

5.1 LIMITED ACM ASSESSMENT

Based on the materials observed during the inspection and laboratory results, asbestos-containing materials were not identified as part of this survey. The OSHA "Asbestos in Construction" regulation (29 CFR 1926.1101) defines work involving the removal of surfacing materials and thermal system insulation as Class I and the removal of the other ACMs as Class II work. The Class I and Class II requirements as defined in 29 CF 1926.1101 should be followed during the project.

The results of this sampling survey are limited to the sampled materials, which are considered to be representative of the homogeneous areas from which the samples were collected. Suspect materials encountered during renovation/demolition activities that were not sampled as part of this survey should be treated as ACM until proven otherwise. If the material should be considered asbestos-containing unless bulk sampling is performed and laboratory analysis proves otherwise.

5.2 LEAD BASED PAINT

Lead-based paint was identified on the interior walls of the attic of the Bos'n Hole building at the subject property. Laboratory results indicated that levels of lead in the analyzed samples ranged from 0.039% - 1.3% interior and 0.092% - 0.29% exterior lead by weight.

The lead-based paint regulations applicable to this project pertain to potential occupational exposures during demolition and disposal requirements. The OSHA construction standard for lead, 29 CFR 1926.62, requires specific occupational exposure controls for paints containing any detectable level of lead. The EPA regulates the disposal of lead-containing waste. Lead-based paint demolition waste may constitute a hazardous waste under the Resource Conservation and Recovery Act (RCRA), Subtitle C. Laboratory analysis of a composite sample of the waste generated by renovation or demolition activities using the Toxicity Characteristic Leaching Procedure (TCLP) for lead is required to determine if the waste is considered hazardous.

There is no OSHA Action Level for concentrations of bulk lead in a substrate such as paint. However, OSHA does regulate the amount of lead in air that a worker may be exposed to. The OSHA acceptable airborne lead concentration, or permissible exposure limit (PEL), is 50 micrograms of lead per cubic meter ($\mu\text{g}/\text{cm}^3$) of air sampled over an 8-hour workday. Therefore, it is important to ensure that workers impacting known lead-containing materials be provided with appropriate respiratory protection until a negative



exposure assessment (NEA) is performed using worker breathing zone air samples. OSHA regulations require certain procedures for any paint that contains lead, even if the paint contains less than the HUD standard of 0.5% or 1.0 mg/cm². The OSHA Construction Industry Standard for Lead (29 CFR 1926.62) also addresses such issues as worker certification, medical evaluations, personal protective equipment, protocols for exposure assessment air monitoring, decontamination facilities, and written health and safety plans.

PSI recommends that all aspects of the OSHA Lead in Construction Standard 1926.62 are complied with during any future maintenance, renovation, or demolition conducted in this area of the subject building.

6. WARRANTY

ASSESSMENT

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of accessible and/or exposed suspect ACMs and LBPs in the building structure. PSI warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by professionals in the community. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The survey and analytical methods have been used to provide the client with information regarding the presence of accessible and/or exposed suspect ACM and LBP existing in the facility at the time of inspection. Test results are valid only for the material(s) tested. There is a distinct possibility that conditions may exist which could not be identified within the scope of the study or which were not apparent during the site visit. This inspection covered only those areas that were exposed and/or physically accessible to the inspector. The study is also limited to the information available from the client at the time it was conducted.

Quantification of suspect ACM was conducted using visual estimation by a licensed asbestos inspector. This visual estimation was performed in accordance with generally accepted practices in the asbestos industry based on materials that were accessible and exposed. These values are sufficiently accurate for the purpose of documenting the presence of asbestos within its space for the purpose of identifying abatement control conditions or for general policy considerations. Actual quantities may differ between visually estimated values and physical measurements. If a licensed asbestos abatement contractor is engaged to remove ACM, the abatement contractor is responsible for verifying reported quantities of ACM.

As directed by the client, PSI did not provide any service to investigate or detect the presence of moisture, mold or other biological contaminants in or around any structure, or any service that was designed or intended to prevent or lower the risk of the occurrence of the amplification of the same. Client acknowledges that mold is ubiquitous to the environment with mold amplification occurring when building materials are impacted by moisture. Client further acknowledges that site conditions are outside of PSI's control, and that mold amplification will likely occur, or continue to occur, in the presence of moisture. As such, PSI cannot and shall not be held responsible for the occurrence or recurrence of mold amplification.

No other warranties are implied or expressed.

This report is not intended as a bid document.

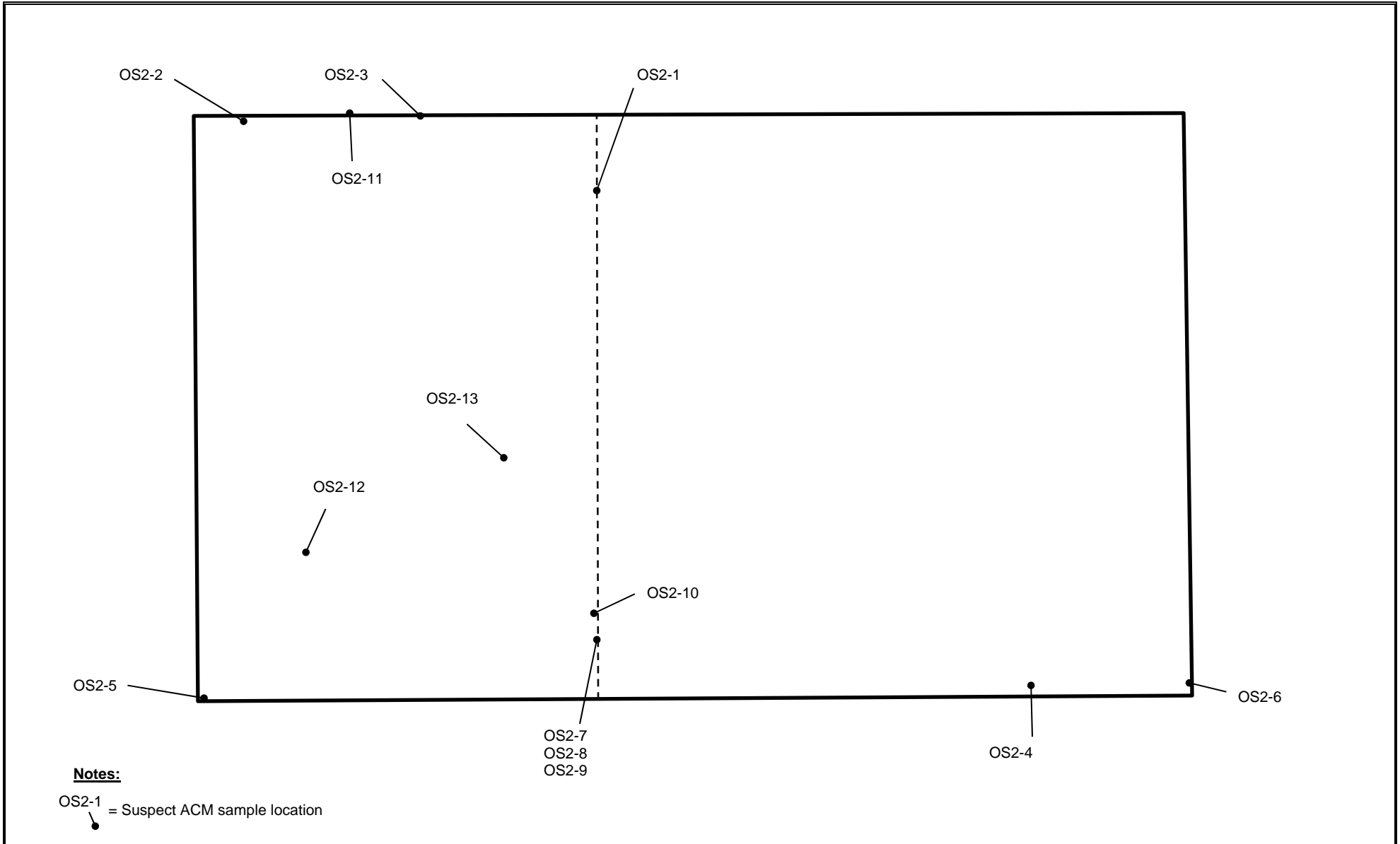


USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with The Johnson McAdams Firm. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance or any use of this report by anyone other than The Johnson McAdams Firm for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

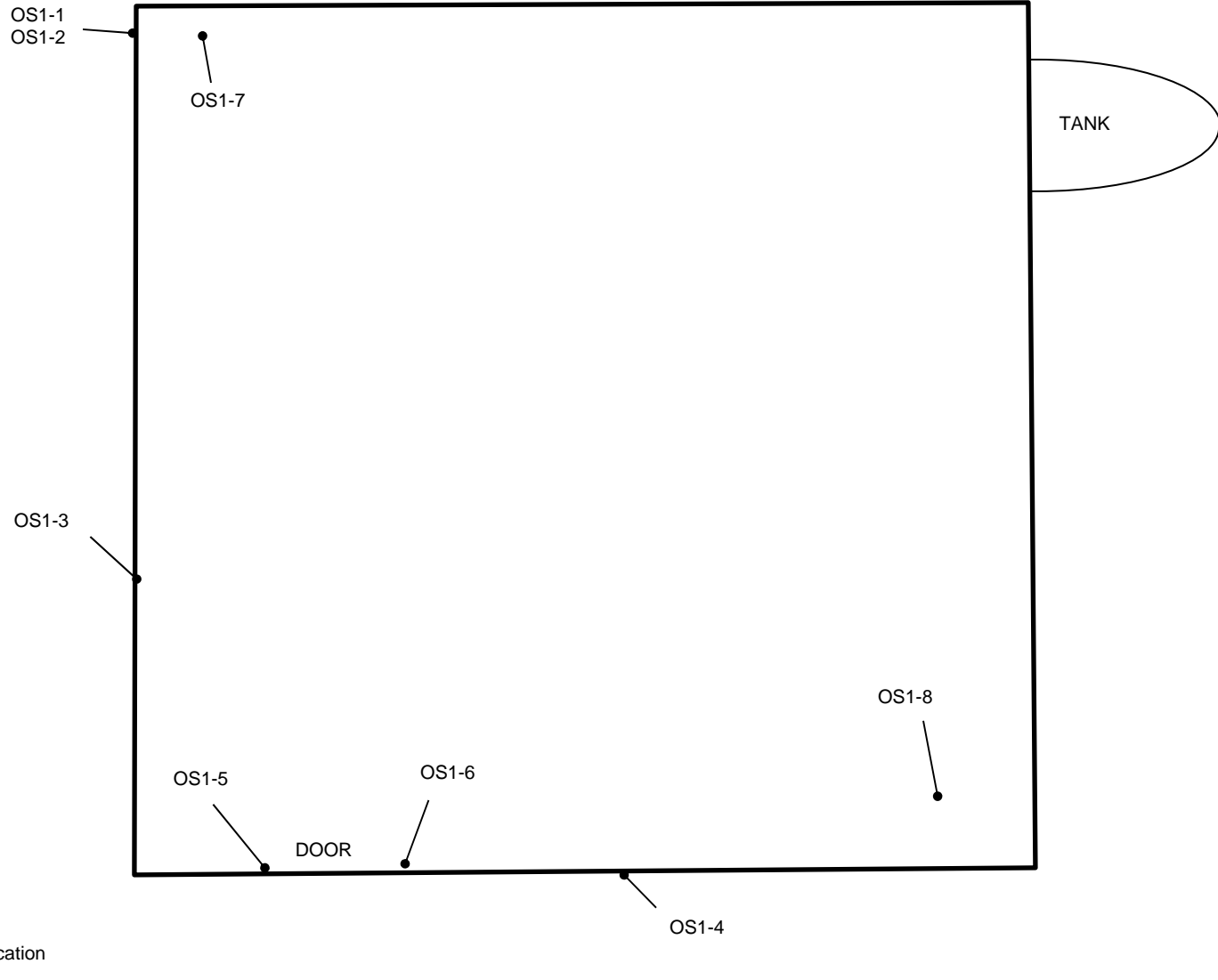
Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to PSI's contract with The Johnson McAdams Firm. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

APPENDIX I FIGURES



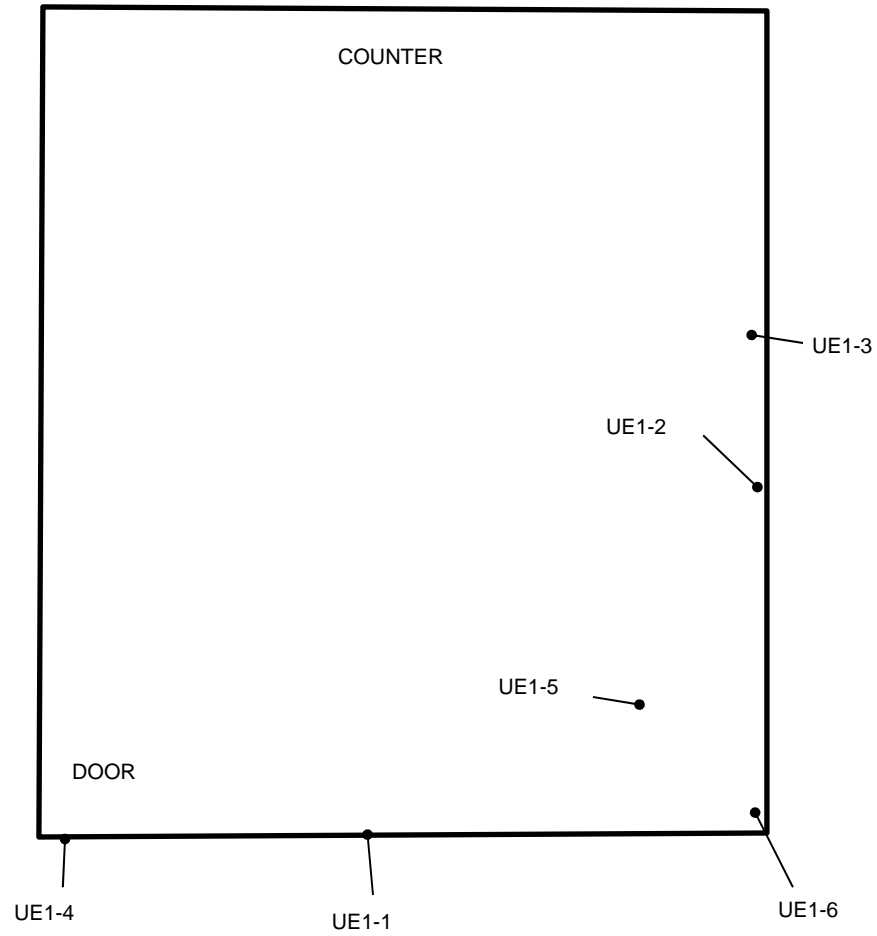
Project Name: USCG 196 North Carolina 33 Hobucken, Hyde County, North Carolina	
Date: October 2014	Scale: Not to Scale

FIGURE 1.1
ACM SAMPLE LOCATION MAP
USCG Hobucken – Bos’n Hole Building



Project Name: USCG 196 North Carolina 33 Hobucken, Hyde County, North Carolina	
Date: October 2014	Scale: Not to Scale

FIGURE 1.2
ACM SAMPLE LOCATION MAP
USCG Hobucken – DC Shop Building



Notes:

UE1-1 = Suspect ACM sample location

Project Name:

USCG
 196 North Carolina 33
 Hobucken, Hyde County, North Carolina

Date:

October 2014

Scale:

Not to Scale

FIGURE 1.3
ACM SAMPLE LOCATION MAP
USCG Hobucken – Guard Shack Building

**APPENDIX II
PHOTOGRAPHS**

PHOTOGRAPHIC LOG



Photo 1: Exterior view of the Bos'n Hole building (OS2).



Photo 2: View of the lead-based paint (white & yellow) observed in the attic of the Bos'n Hole building.

PHOTOGRAPHIC LOG



Photo 3: Exterior view of the guard shack (UE1) of the subject property.



Photo 4: Heavy peeling observed of the interior paint on the exposed metal deck roofing of the DC Shop (OS1).

APPENDIX III
LABORATORY ANALYSIS OF BUILDING MATERIALS



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number *(Lab Use Only):*

411406808

Charlotte, NC 28273
PHONE: (704) 525-2205
FAX: (704) 525 2382

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Company: PSI - Professional Service Industries		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 5021 West WT Harris Blvd.		<i>Third Party Billing requires written authorization from third party</i>	
City: Charlotte	State/Province: NC	Zip/Postal Code: 28269	Country: United States
Report To (Name): Kyle Russell		Telephone #: 704-598-2234	
Email Address: kyle.russell@psiusa.com		Fax #: 704-598-2236	Purchase Order: 0457611
Project Name/Number: 0457611 / Bosin Hole Building		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: NC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

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

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM - Bulk
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)	Other
<input type="checkbox"/> OSHA ID-191 Modified	<input type="checkbox"/>
<input type="checkbox"/> Standard Addition Method	

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: 10/14/2014

Samplers Name: Kyle Russell Samplers Signature: *Kyle Russell*

Sample #	HA #	Sample Location	Material Description
OS2-1	A	Bosin Hole Interior wall	Resilent wall Board
OS2-2	A	"	"
OS2-3	B	Bosin Hole Window+Door	White window & Door Caulking
OS2-4	B	"	"
OS2-5	C	Bosin Hole Roof	Asphalt shingle & roof paper
OS2-6	C	"	"
OS2-7	D	Bosin Hole - Interior wall	White Duct Wrap
OS2-8	D	"	"
OS2-9	D	"	"

Client Sample # (s):	052-1 - 052-13	Total # of Samples:	13
Relinquished (Client):	<i>Kyle Russell</i>	Date:	10/16/2014
Received (Lab):	<i>Earl N...</i>	Date:	10/17/14
Comments/Special Instructions:	7900 7201 7024		
<small>Purchase Order: 0457611</small>			

**EMSL Analytical, Inc.**

376 Crompton Street, Charlotte, NC 28273

Phone/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com>charlottelab@emsl.com

EMSL Order:	411406808
CustomerID:	PSI51
CustomerPO:	0457611
ProjectID:	

Attn: **Kyle Russell**
PSI - Professional Service Industries
5021 West WT Harris Blvd.
Charlotte, NC 28269

Phone: (704) 598-2234
 Fax: (704) 598-2236
 Received: 10/17/14 9:00 AM
 Analysis Date: 10/18/2014
 Collected: 10/14/2014

Project: **0457611/ Bos'n Hole Building**

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
052-1 411406808-0001	Resilient Wall Board	White Fibrous Homogeneous	10% Glass	30% Ca Carbonate 60% Non-fibrous (other)	None Detected
052-2 411406808-0002	Resilient Wall Board	White Fibrous Homogeneous	10% Glass	25% Ca Carbonate 65% Non-fibrous (other)	None Detected
052-3 411406808-0003	White Window & Door Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
052-4 411406808-0004	White Window & Door Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
052-5-Shingle 411406808-0005	Asphalt Shingle & Roof Paper	Red/Black Fibrous Homogeneous	5% Glass	10% Ca Carbonate 85% Non-fibrous (other)	None Detected
052-5-Felt 411406808-0005A	Asphalt Shingle & Roof Paper	Black Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (other)	None Detected
052-6-Shingle 411406808-0006	Asphalt Shingle & Roof Paper	Red/Black Fibrous Homogeneous	5% Glass	5% Quartz 90% Non-fibrous (other)	None Detected
052-6-Felt 411406808-0006A	Asphalt Shingle & Roof Paper	Brown/Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (other)	None Detected

Analyst(s)

 Aaron Hartley (7)
 Kyle Collins (8)

Lee Plumley, Laboratory Manager
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from 10/20/2014 08:22:45

**EMSL Analytical, Inc.**

376 Crompton Street, Charlotte, NC 28273

Phone/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com>charlottelab@emsl.com

EMSL Order: 411406808

CustomerID: PSI51

CustomerPO: 0457611

ProjectID:

Attn: **Kyle Russell**
PSI - Professional Service Industries
5021 West WT Harris Blvd.
Charlotte, NC 28269

Phone: (704) 598-2234
 Fax: (704) 598-2236
 Received: 10/17/14 9:00 AM
 Analysis Date: 10/18/2014
 Collected: 10/14/2014

Project: **0457611/ Bos'n Hole Building**

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
052-7 411406808-0007	White Duct Wrap	Gray/Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
052-8 411406808-0008	White Duct Wrap	Gray/Beige Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
052-9 411406808-0009	White Duct Wrap	Gray/White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
052-10 411406808-0010	White Interior Sealant	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
052-11 411406808-0011	White Interior Sealant	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
052-12 411406808-0012	Floor Leveler	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
052-13 411406808-0013	Floor Leveler	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Aaron Hartley (7)

Kyle Collins (8)

Lee Plumley, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from 10/20/2014 08:22:45



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

411406809

Charlotte, NC 28273
PHONE: (704) 525-2205
FAX: (704) 525 2382

Company : PSI - Professional Service Industries		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 5021 West WT Harris Blvd.		<i>Third Party Billing requires written authorization from third party</i>	
City: Charlotte	State/Province: NC	Zip/Postal Code: 28269	Country: United States
Report To (Name): Kyle Russell		Telephone #: 704-598-2234	
Email Address: kyle.russell@psiusa.com		Fax #: 704-598-2236	Purchase Order: 0457611
Project Name/Number: 0457611 / DC Shop		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: NC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* – Please Check

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

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM - Bulk
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB – EPA 600/R-93/116 Section 2.5.5.1
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM % by Mass – EPA 600/R-93/116 Section 2.5.5.2
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)	Other
<input type="checkbox"/> OSHA ID-191 Modified	<input type="checkbox"/>
<input type="checkbox"/> Standard Addition Method	

Check For Positive Stop – Clearly Identify Homogenous Group Date Sampled: 10/14/2014

Samplers Name: Kyle Russell Samplers Signature: *Kyle Russell*

Sample #	HA #	Sample Location	Material Description
OSI-1	A	DC Shop Exterior	Red Fire Stop
OSI-2	A	"	"
OSI-3	B	DC Shop roof	Asphalt roof shingle
OSI-4	B	"	"
OSI-5	C	DC Shop Interior Door	White Door Caulking
OSI-6	C	"	"
OSI-7	D	DC Shop Flat roof	Built-up Roof
OSI-8	D	"	"

Client Sample # (s):	OSI-1 - OSI-8	Total # of Samples:	8
Relinquished (Client):	<i>Kyle Russell</i>	Date:	10/16/2014
Received (Lab):	<i>Kyle Russell</i>	Date:	10/17/14
Comments/Special Instructions:	Time: 10:15 Time: 9:00 AM EMSL F/x 7100 7201 7024		
<small>Purchase Order: 0457611</small>			

**EMSL Analytical, Inc.**

376 Crompton Street, Charlotte, NC 28273

Phone/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com>charlottelab@emsl.com

EMSL Order: 411406809

CustomerID: PSI51

CustomerPO: 0457611

ProjectID:

Attn: **Kyle Russell**
PSI - Professional Service Industries
5021 West WT Harris Blvd.
Charlotte, NC 28269

Phone: (704) 598-2234
 Fax: (704) 598-2236
 Received: 10/17/14 9:00 AM
 Analysis Date: 10/17/2014
 Collected: 10/14/2014

Project: 0457611/ DC Shop

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
051-1-Fire Stop 411406809-0001	Red Fire Stop	Red Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected
051-1-Cementitious Material 411406809-0001A	Red Fire Stop	Gray Non-Fibrous Homogeneous		20% Quartz 15% Ca Carbonate 65% Non-fibrous (other)	None Detected
051-2 411406809-0002	Red Fire Stop	Red Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
051-3 411406809-0003	Asphalt Roof Shingle	Red/Black Fibrous Homogeneous	5% Glass	10% Ca Carbonate 85% Non-fibrous (other)	None Detected
051-4 411406809-0004	Asphalt Roof Shingle	Brown/Black Fibrous Heterogeneous	5% Glass	5% Quartz 10% Ca Carbonate 80% Non-fibrous (other)	None Detected
051-5 411406809-0005	White Door Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
051-6 411406809-0006	White Door Caulking	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (other)	None Detected
051-7-Shingle 411406809-0007	Built-Up Roof	Gray/Black Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected

Analyst(s)

Eric Loomis (8)

Kyle Collins (9)

Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from 10/20/2014 08:23:48



EMSL Analytical, Inc.

376 Crompton Street, Charlotte, NC 28273

Phone/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com>

charlottelab@emsl.com


EMSL Order:	411406809
CustomerID:	PSI51
CustomerPO:	0457611
ProjectID:	

Attn: Kyle Russell PSI - Professional Service Industries 5021 West WT Harris Blvd. Charlotte, NC 28269	Phone: (704) 598-2234 Fax: (704) 598-2236 Received: 10/17/14 9:00 AM Analysis Date: 10/17/2014 Collected: 10/14/2014
Project: 0457611/ DC Shop	

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
051-7-Tar 411406809-0007A	Built-Up Roof	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
051-7-Brown Insulation 411406809-0007B	Built-Up Roof	Brown Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
051-7-Felt 411406809-0007C	Built-Up Roof	Gray Fibrous Homogeneous	60% Cellulose 10% Glass	30% Non-fibrous (other)	None Detected
051-7-Yellow Insulation 411406809-0007D	Built-Up Roof	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
051-8-Shingle 411406809-0008	Built-Up Roof	Black Fibrous Heterogeneous	10% Synthetic	5% Quartz 5% Ca Carbonate 80% Non-fibrous (other)	None Detected
051-8-Tar 411406809-0008A	Built-Up Roof	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
051-8-Brown Insulation 411406809-0008B	Built-Up Roof	Tan Fibrous Homogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
051-8-Felt 411406809-0008C	Built-Up Roof	Black Fibrous Heterogeneous	70% Cellulose 5% Glass	25% Non-fibrous (other)	None Detected

Analyst(s)
Eric Loomis (8)
Kyle Collins (9)


Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from 10/20/2014 08:23:48



EMSL Analytical, Inc.

376 Crompton Street, Charlotte, NC 28273
Phone/Fax: (704) 525-2205 / (704) 525-2382
<http://www.EMSL.com> charlottelab@emsl.com

EMSL Order: 411406809
CustomerID: PSI51
CustomerPO: 0457611
ProjectID:

Attn: **Kyle Russell**
PSI - Professional Service Industries
5021 West WT Harris Blvd.
Charlotte, NC 28269

Phone: (704) 598-2234
Fax: (704) 598-2236
Received: 10/17/14 9:00 AM
Analysis Date: 10/17/2014
Collected: 10/14/2014


Project: 0457611/ DC Shop

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
051-8-Yellow Insulation	Built-Up Roof	Yellow Non-Fibrous		100% Non-fibrous (other)	None Detected
411406809-0008D		Homogeneous			

Analyst(s)

Eric Loomis (8)
Kyle Collins (9)



Lee Plumley, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from 10/20/2014 08:23:48



Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

411406810

Charlotte, NC 28273
PHONE: (704) 525-2205
FAX: (704) 525 2382

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Company: PSI - Professional Service Industries		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different	
Street: 5021 West WT Harris Blvd.		If Bill to is Different note instructions in Comments**	
<i>Third Party Billing requires written authorization from third party</i>			
City: Charlotte	State/Province: NC	Zip/Postal Code: 28269	Country: United States
Report To (Name): Kyle Russell		Telephone #: 704-598-2234	
Email Address: kyle.russell@psiusa.com		Fax #: 704-598-2236	Purchase Order: 0457611
Project Name/Number: 0457611 / Guard Shack		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: NC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

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

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)	TEM - Bulk
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)	<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
<input type="checkbox"/> PLM EPA NOB (<1%)	<input type="checkbox"/> NY ELAP Method 198.4 (TEM)
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> Chatfield Protocol (semi-quantitative)
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2
<input type="checkbox"/> NIOSH 9002 (<1%)	<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)	<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)	Other
<input type="checkbox"/> OSHA ID-191 Modified	<input type="checkbox"/>
<input type="checkbox"/> Standard Addition Method	

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: 10/14/2014

Samplers Name: Kyle Russell

Samplers Signature: *Kyle Russell*

Sample #	HA #	Sample Location	Material Description
VE1-1	A	Guard Shack Interior	White Window Caulking
VE1-2	A	"	"
VE1-3	B	"	Clear Wall Sealant
VE1-4	B	"	"
VE1-5	C	"	12"x12" Green Floor Tile w/yellow mastic
VE1-6	C	"	

Client Sample # (s):	VE1-1 VE1-6	Total # of Samples:	6
Relinquished (Client):	<i>[Signature]</i>	Date:	10/16/2014
Received (Lab):	<i>[Signature]</i>	Date:	10/17/14
Comments/Special Instructions:	Time: 10:10		
Purchase Order: 0457611	Time: 9:00am EMSL F/k		
	7966 7201 7024		

**EMSL Analytical, Inc.**

376 Crompton Street, Charlotte, NC 28273

Phone/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com>charlottelab@emsl.com

EMSL Order: 411406810

CustomerID: PSI51

CustomerPO: 0457611

ProjectID:

Attn: **Kyle Russell**
PSI - Professional Service Industries
5021 West WT Harris Blvd.
Charlotte, NC 28269

Phone: (704) 598-2234
 Fax: (704) 598-2236
 Received: 10/17/14 9:00 AM
 Analysis Date: 10/18/2014
 Collected: 10/14/2014

Project: 0457611/ Guard Shack

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
UE1-1 411406810-0001	White Window Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
UE1-2 411406810-0002	White Window Caulking	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
UE1-3 411406810-0003	Clear Wall Sealant	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
UE1-4 411406810-0004	Clear Wall Sealant	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
UE1-5-Floor Tile 411406810-0005	12"x12" Green Floor Tile w/ Yellow Mastic	Green Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
UE1-5-Mastic 411406810-0005A	12"x12" Green Floor Tile w/ Yellow Mastic	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (other)	None Detected
UE1-6-Floor Tile 411406810-0006	12"x12" Green Floor Tile w/ Yellow Mastic	Gray/Green Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (other)	None Detected
UE1-6-Mastic 411406810-0006A	12"x12" Green Floor Tile w/ Yellow Mastic	Tan Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (other)	None Detected

Analyst(s)

Aaron Hartley (4)

Kyle Collins (4)

Lee Plumley, Laboratory Manager
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from 10/20/2014 08:24:19



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

411406807

Charlotte, NC 28273

PHONE: (704) 525-2205

FAX: (704) 525 2382

Company: PSI - Professional Service Industries		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 5021 West WT Harris Blvd.		<i>Third Party Billing requires written authorization from third party</i>	
City: Charlotte	State/Province: NC	Zip/Postal Code: 28269	Country: United States
Report To (Name): Kyle Russell		Telephone #: 704-598-2234	
Email Address: kyle.russell@psiusa.com		Fax #: 704-598-2236	Purchase Order: 0457611
Project Name/Number: 0457611 / Coast Guard		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: NC		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

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

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

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Kyle Russell Signature of Sampler: *Kyle Russell*

Sample #	Location	Volume/Area	Date/Time Sampled
P-1	Basin Hole Interior (Conduit)	1	10/14/2014
P-2	Basin Hole Interior (Attic)	2	"
P-3	Basin Hole Interior (Floor)	3	"
P-4	Basin Hole Interior (Halls)	4	"
P-5	DC Shop - Exterior (Tank)	5	"

Client Sample #'s: P-1 - P-8 Total # of Samples: 8

Relinquished (Client): *Kyle Russell* Date: 10/16/2014 Time: 10:00

Received (Lab): *Kyle Nelson* Date: 10/17/14 Time: 9:00 AM EMSL FK

Comments: 7900 7201 7024

Purchase Order: 0457611

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

411406807

EMSL Analytical, Inc.
376 Crompton Street

Charlotte, NC 28273

PHONE: (704) 525-2205

FAX: (704) 525 2382

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

Sample #	Location	Volume/Area	Date/Time Sampled
P-6	DC Shop Interior Wall (Ceiling)	6	"
P-7	DC Shop Interior (NW Wall)	6	"
P-8	DC Shop - Exterior (Soffit)	7	"

Comments/Special Instructions:

Purchase Order: 0457611



EMSL Analytical, Inc.

376 Crompton Street, Charlotte, NC 28273
Phone/Fax: (704) 525-2205 / (704) 525-2382
<http://www.EMSL.com> charlottelab@emsl.com

EMSL Order: 411406807
CustomerID: PSI51
CustomerPO: 0457611
ProjectID:

Attn: **Kyle Russell**
PSI - Professional Service Industries
5021 West WT Harris Blvd.
Charlotte, NC 28269

Phone: (704) 598-2234
Fax: (704) 598-2236
Received: 10/17/14 9:00 AM
Collected: 10/14/2014

Project: **0457611/ Coast Guard**

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>
P-1	411406807-0001	10/14/2014	10/17/2014	0.039 % wt
Site: Bos'n Hole Interior (Conduit)				
P-2	411406807-0002	10/14/2014	10/17/2014	1.3 % wt
Site: Bos'n Hole Interior (Attic)				
P-3	411406807-0003	10/14/2014	10/17/2014	0.35 % wt
Site: Bos'n Hole Interior (Floor)				
P-4	411406807-0004	10/14/2014	10/17/2014	0.060 % wt
Site: Bos'n Hole Interior (Walls)				
P-5	411406807-0005	10/14/2014	10/17/2014	0.29 % wt
Site: DC Shop - Exterior (Tank)				
P-6	411406807-0006	10/14/2014	10/17/2014	0.21 % wt
Site: DC Shop - Interior (Conduit)				
P-7	411406807-0007	10/14/2014	10/17/2014	0.18 % wt
Site: DC Shop - Interior (CMU Wall)				
P-8	411406807-0008	10/14/2014	10/17/2014	0.092 % wt
Site: DC Shop - Exterior (Soffit)				

Kyle Collins, Technical Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.
Samples analyzed by EMSL Analytical, Inc. Charlotte, NC AIHA-LAP, LLC - ELLAP 192283

Initial report from 10/17/2014 14:42:10

**APPENDIX IV
INSPECTOR CERTIFICATIONS**



North Carolina Department of Health and Human Services
Division of Public Health

Pat McCrory
Governor

Aldona Z. Wos, M.D.
Ambassador (Ret.)
Secretary DHHS
Penelope Slade-Sawyer
Division Director

August 14, 2014

Kyle N Russell
5110 Misty Oaks Dr Apt. 1825
Charlotte, NC 28269

Dear Mr. Russell:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 12883, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on FEBRUARY 28, 2015. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to February 28, 2015. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

A handwritten signature in black ink that reads "Ed Norman".

Ed Norman
Program Manager
Health Hazards Control Unit

Enclosure

www.ncdhhs.gov • www.publichealth.nc.gov
Tel 919-707-5950 • Fax 919-870-4808

Location: 5505 Six Forks Road • Raleigh, NC 27609
Mailing Address: 1912 Mail Service Center • Raleigh, NC 27699-1912
An Equal Opportunity / Affirmative Action Employer



**North Carolina
Asbestos Accreditation**



Kyle N Russell
5110 Misty Oaks Dr Apt. 18
Charlotte, NC 28269

105017

EXPIRATION			
02-28-2015			
DOB	SEX	HT	WT
01-17-1989	M	6'0"	185
CLASS	#	EXP	
INSPECTOR	12883	02-15	

APPENDIX V
LIST OF ACRONYMS

LIST OF ACRONYMS

EPA	U.S. Environmental Protection Agency
HVAC	Heating Ventilation Air Conditioning
LEP	Licensed Environmental Professional
ACM	Asbestos Containing Material
CH	Chrysotile
AMOS	Amosite
CROC	Crocidolite
NVLAP	National Voluntary Laboratory Accreditation Program
PSI	Professional Service Industries
NA	Not Applicable
NAD	No Asbestos Detected
NESHAP	National Emission Standard for Hazardous Air Pollutants
PE	Professional Engineer
SF	Square Feet
LF	Linear Feet
CF	Cubic Feet
TSI	Thermal System Insulation
CFR	Code of Federal Regulations