

WINDOW REPLACEMENT & REPAIR
NAVAL AIR STATION PENSACOLA
PENSACOLA, FL

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SUBMITTAL NAME: **ASBESTOS & LEAD PAINT SURVEYS**
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NAVFAC
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Prepared for
NAVAL FACILITIES ENGINEERING COMMAND, SOUTHEAST
IPT GULF COAST
NAS JACKSONVILLE
JACKSONVILLE, FL



Prepared by
HDR Architecture, Inc
440 South Church St., Suite 1000
Charlotte, NC 28202-5004

**LIMITED ASBESTOS CONTAINING MATERIALS SURVEY,
LEAD-BASED PAINT SURVEY, AND
WASTE CHARACTERIZATION FOR LEAD
BUILDINGS 38, 40, 73, 223, 606, AND 627
NAVAL AIR STATION PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA**

PREPARED FOR:

Mr. Jeremy Puzycki
Architectural Coordinator
HDR Architecture, Inc.
440 South Church Street, Suite 1000
Charlotte, North Carolina 28202
(704) 338-6848



PREPARED BY:

Aerostar Environmental Services, Inc.
803 Government Street, Suite A
Mobile, Alabama 36602
(251) 432-2664



AES Project Number 0411-525-17

November 30, 2011

SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

This is to certify that the **Limited Asbestos Containing Materials (ACM) Survey, Lead-Based Paint (LBP) Survey, and Waste Characterization for Lead of Buildings 38, 40, 73, 223, 606, and 627, located at NAS Pensacola, Pensacola, Escambia County, Florida,** has been examined by the undersigned.

DATE 11-30-2011

SIGNATURE: _____


Sam Stuart
Project Scientist
Lead Risk Assessor
Certification No. FL-R-108987-1

DATE 11-30-2011

SIGNATURE: _____


Thalax Rattanaxay
Project Manager
Asbestos Inspector
Certification No. 146660

DATE 11-30-2011

SIGNATURE: _____


Paul Fitch, P.E., LAC
Licensed Asbestos Consultant
License No. AX64

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1.0 EXECUTIVE SUMMARY

1.1 Site Name

Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida
Contract No. N69450-09-D-0064

1.2 Name and Certificate of Inspector(s)

Thalas Rattanaxay
AEROSTAR Asbestos Inspector
Certification No.
146660

Sam Stuart
AEROSTAR Lead-Based Paint
Risk Assessor
Lead Certification No.
FL-R-108987-1

1.3 Site Description and Activities

On November 7 and 9, 2011, Aerostar Environmental Services, Inc. (AEROSTAR) conducted a Limited Asbestos Containing Materials (ACM) Survey, Lead-Based Paint (LBP) Survey, and Waste Characterization for lead of Buildings 38, 40, 73, 223, 606, and 627 located at Naval Air Station (NAS) Pensacola, Pensacola, Escambia County, Florida. The area of the survey included all accessible portions of the proposed renovation areas as listed below.

Building 38

- Window system repairs, 31 (4'x10') first floor windows and 70 (4'x8') second floor windows

Building 40

- Burglar bar demolition, 11 (approximately 352 square feet (SF)) first floor windows
- Ceiling tile removal (approximately 72 SF), first floor male and female heads
- Ceramic tile demolition (approximately 48 SF), first floor male and female heads
- Gypsum wall board demolition (approximately 120 SF), first floor male and female heads
- Window component demolition (approximately 32 SF), first floor male and female heads
- Relocation of one 12"x12" bathroom exhaust vent and associated ducting, and one 12"x12" fresh air make up vent and ducting, first floor male and female heads
- Removal of 22 double hung windows and trim, first floor
- Removal of 2 above-door fixed windows and associated trim, first floor
- Gypsum wall board repairs with sporadic water damage (approximately 80 SF), first floor
- Interior and exterior washing of 24 windows, first floor

- Removal of 31 double hung windows and associated trim, second floor
- Removal of 1 above door fixed window and associated trim, second floor
- Removal of 6 single hung attic/gable windows and associated trim, second floor
- Interior and exterior washing of 38 windows, second floor

Building 73

- Removal, blasting, and repainting of approximately 156 steel framed window units (approximately 34"x52") throughout the building

Building 223

- Cleaning of all windows
- Window glazing repair of approximately 45 linear feet (LF) throughout the building
- Window faming repair of approximately 65 LF (rails/stiles)
- Securing of 17 large and 5 small aluminum framed storm windows

Building 606

- Removal of 6 temporary window covers on second floor level
- Removal and disposal of approximately 76 steel framed window units (approximately 44"x84") throughout the building

Building 627

- Removal of temporary covers on 19 windows on the second floor level exterior
- Removal of temporary covers on 24 windows on the second floor level interior
- Removal and disposal of approximately 61 steel framed windows and 15 aluminum framed windows (approximately 44"x84")
- Repair of brick around windows (approximately 500 SF)

1.4 Findings and Results

A visual reconnaissance of suspect ACMs was performed in all accessible areas of the proposed renovation areas. A total of 21 homogeneous areas were sampled for asbestos containing material. Five of the homogeneous areas (606-1 – Exterior Window Caulk; 606-2 – Exterior Window Glaze; 606-3 – Interior Window Glaze; 627-1 – Exterior Window Caulk; and 627-3 – Interior Window Glaze) sampled within the structures were found to contain asbestos fiber concentrations greater than one percent (1%) by Polarized Light Microscopy (PLM) analysis.

A LBP survey was performed using a Niton XLp 302A series X-Ray Fluorescence (XRF) portable spectrum analyzer. One hundred fifteen XRF sample results showed lead concentrations equal to or greater than 1.0 milligram per square centimeter (mg/cm²). Seventy-six of the XRF samples correlate to the white paint found on the interior and exterior of the windows at Buildings 38, 40, and 223. Four of the XRF samples correlate to the white

paint found on the exterior of the windows at Building 73. Four of the XRF samples correlate to the white paint found on the interior of the windows at Buildings 606 and 627. Fourteen of the XRF samples correlate to the blue paint found on the interior of the 2nd floor windows at Building 40. One of the XRF samples correlate to the green paint found on the interior of the 2nd floor window muntins at Building 40. Sixteen of the XRF samples correlate to the brown paint found on the exterior of the windows at Buildings 606 and 627.

Components to be demolished and disposed of as part of this project were sampled for waste characterization for lead from the building components. The samples were collected and analyzed using Toxicity Characteristic Leaching Procedure (TCLP) for lead in accordance with the provisions of 40 CFR 261, Subpart C. One composite sample from each building was collected from building components of the proposed renovation areas for laboratory analysis by TCLP for lead. The laboratory results of the TCLP lead analysis were less than 0.40 milligrams per liter (mg/L) for samples collected at Buildings 38, 73, 223, 606, and 627. The analytical results are below the EPA TCLP level of 5.0 mg/L for lead. Based on the laboratory analytical results, the construction debris resulting from the renovation areas is identified as non-hazardous waste for Buildings 38, 73, 223, 606, and 627. The laboratory result of the TCLP lead analysis was 9.3 mg/L for the composite sample collected at Building 40. The analytical result is above the EPA TCLP level of 5.0 mg/L for lead. Based on the laboratory analytical results, the construction debris resulting from the renovation areas at Building 40 is identified as hazardous waste. This construction debris should be disposed of at a state-approved landfill for hazardous materials.

2.0 INTRODUCTION

On November 7 and 9, 2011, AEROSTAR conducted a Limited ACM Survey, LBP Survey, and Waste Characterization for Lead of Buildings 38, 40, 73, 223, 606, and 627 located at NAS Pensacola, Pensacola, Escambia County, Florida. The area of the survey included all accessible portions of the proposed renovation areas. The buildings consisted of office, gym, bathroom, and warehouse spaces.

3.0 REGULATORY SUMMARY

3.0 Asbestos

3.0.1 Environmental Protection Agency

The Environmental Protection Agency (EPA) has published a list of hazardous air pollutants and promulgated the National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations. Since asbestos presents a significant risk to human health as a result of air emissions from one or more source categories, it is therefore considered a hazardous air pollutant. The Asbestos NESHAP Regulation (40 CFR 61, Subpart M) addresses milling, manufacturing and fabricating operations, demolition and renovation activities, waste disposal issues, active and inactive waste disposal sites and asbestos conversion processes.

Friable ACM is defined by the Asbestos NESHAP, as any material containing greater than 1% asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part

763, Section 1, PLM, that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure (Sec. 61.141).

Non-friable ACM is any material containing greater than 1% asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM, that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure (Sec. 61.141).

EPA also defines two categories of non-friable ACM: Category I and Category II non-friable ACM.

- Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product which contains greater than 1% asbestos as determined using PLM according to the method specified in Appendix A, Subpart F, 40 CFR Part 763 (Sec. 61.141).
- Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing greater than 1% asbestos as determined using PLM according to the methods specified in Appendix A, Subpart F, 40 CFR Part 763 (Sec. 61.141), that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated Asbestos Containing Material (RACM) is: (a) friable ACM, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

Category I non-friable ACM must be inspected and tested for friability if it is in poor condition prior to demolition to determine whether or not it is subject to the Asbestos NESHAP. If the ACM is friable, it must be handled in accordance with the NESHAP. Asbestos-containing packings, gaskets, resilient floor coverings and asphalt roofing materials must be removed prior to demolition only if they are in poor condition and are friable.

The Asbestos NESHAP further requires that if a facility is demolished by intentional burning, all of the facility's ACM, including Category I and II non-friable ACM, can be considered RACM and should be removed prior to burning (Sec. 61.145 (c)(10)).

If Category I or Category II non-friable ACM is to be sanded, ground, cut, or abraded, the material is considered RACM and the owner or operator must abide by the following (Sec. 61.145(c)(1)):

- (i) Adequately wet the material during the sanding, grinding, cutting or abrading operations;
- (ii) Comply with the requirements of 61.145(c)(3)(i) if wetting would unavoidably damage equipment or present a safety hazard; and

- (iii) Handle asbestos material produced by the sanding, grinding, cutting, or abrading, as asbestos-containing waste material subject to the waste handling and collection provisions of Section 61.150.

Except for the following, Section 61.145(c) of the Asbestos NESHAP requires that each owner or operator of a demolition or renovation activity involving RACM remove all such material from a facility being demolished or renovated before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal.

ACM need not be removed before demolition if it:

- (i) Is a Category I non-friable ACM that has not become friable;
- (ii) Is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition;
- (iii) Was not accessible for testing and therefore was not discovered until after demolition began and, as a result of the demolition, cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and kept adequately wet at all times until disposed of; or
- (iv) Is a Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.

3.1.2 Occupational Safety and Health Administration

The Occupational Safety and Health Administration (OSHA) regulates asbestos and lead exposure during all construction work including, but not limited to, the following:

- Demolition or salvage of structures where asbestos or lead is present;
- Removal or encapsulation of materials containing asbestos or lead;
- Construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos or lead;
- Installation of products containing asbestos or lead;
- Asbestos and lead spill/emergency cleanup; and
- Transportation, disposal, storage, containment of and housekeeping activities involving asbestos or products containing asbestos or lead, on the site or location at which construction activities are performed.

The OSHA Standard 29 CFR 1926.1101 requires the use of engineering controls, work practices, and personal protective equipment to reduce or eliminate employee exposure to asbestos. The OSHA standard does not apply to asbestos-containing asphalt roof coatings, cements and mastics. The OSHA Standard 29 CFR 1926.62 requires the use of engineering controls, work practices, and personal protective equipment to reduce or eliminate employee exposure to lead.

3.1.3 State of Florida

Florida Statutes 469.004 and 469.005 require licensure of asbestos consultants and contractors by the Department of Business and Professional Regulation (DBPR).

Florida Statute 553.79 requires that the Department of Environmental Protection be notified in writing before a local building permit is granted for any building demolition or renovation which would disturb asbestos material.

3.1 Lead

OSHA regulates lead exposure during all construction work including, but not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- Installation of products containing lead;
- Lead contamination/emergency cleanup;
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed, and
- Maintenance operations associated with the construction activities.

The OSHA Standard 29 CFR 1926.62 requires the use of engineering controls, work practices, and personal protective equipment to reduce or eliminate employee exposure to lead.

4.0 METHODS OF INVESTIGATION

4.1 Asbestos

Sampling protocols set forth by the EPA under 40 CFR 763.86 were followed during the inspection. The asbestos survey was performed by observing, touching, and sampling accessible suspect building materials throughout the building. The purpose of this survey was to locate and identify suspect ACMs, to quantify the material, and to separate it into unique areas for further assessment. The condition and location of representative suspect materials were defined where easily accessible and visible.

Bulk asbestos sampling procedures utilized for the collection of suspect ACMs first required the establishment of a homogeneous sampling area. A homogeneous sampling area is defined as an area of material of the same type (texture and color) which was applied during the same general time period. Each individual sampling area was then examined and representative samples of suspect materials were collected. The U.S. EPA has published guidelines and recommendations pertaining to surveying and sampling for friable ACMs. The guidelines were followed during the survey where appropriate. U.S. EPA publications and current regulations mainly address friable materials, such as surface finishes and structural

fireproofing. The samples were analyzed by PLM with dispersion staining according to EPA Method 600/R-93/116. The PLM test is an EPA-approved analytical method for asbestos identification. Bulk samples were collected by an Asbestos Hazard Emergency Response Act (AHERA)-certified Asbestos Inspector and analyzed by a laboratory that maintains accreditation through the National Voluntary Laboratory Accreditation Program (NVLAP) for the analysis of bulk samples by PLM. The test uses the unique optical properties of mineral forms in the samples to specifically identify the various asbestos types.

Where distinct layers were present, bulk samples were collected to represent each individual layer of the suspect material. Mastic and/or other adhesive substances were included when possible. At the time of sample collection, the inspector noted material type, approximate amount, sampling locations, and condition of the materials.

Samples were labeled with a three number identification system (xxx-yy-zz). The first set of numbers (xxx) indicates the building number used by the facility. The second set of numbers (yy) indicates the homogeneous area designation assigned by the asbestos inspector. The third set of numbers (zz) indicates the individual sample identification number. Where distinct layers were separated, a letter (A,B,C) was assigned for each additional layer analyzed by the laboratory. Asbestos sample locations are shown on Figures 1, 2, and 3.

The surface area of the samples was adequately wetted prior to sample collection. All necessary precautions were taken to prevent visible emissions, air-borne fiber release, and debris, and to protect the facility occupants from exposure. Samples were submitted in independent sealed containers to EMSL Analytical, Inc. (EMSL), 5125 Adanson Street, Suite 900, Orlando, Florida, for laboratory analysis according to EPA Method 600/R-93/116. EMSL is an American Industrial Hygiene Association (AIHA)-accredited laboratory.

4.2 Lead-Based Paint Survey

The LBP survey was performed using a Niton XLp 302A series XRF portable spectrum analyzer, serial number 23358. The Niton XLp 302A series XRF uses a Cadmium-109 radioactive source. The source undergoes a radioactive decay, in a two-step process, that releases x-rays and gamma rays with enough energy to cause both K-shell and L-shell fluorescence. During this process, if the primary x-ray emitted by the XRF has sufficient energy, electrons are ejected from the inner shells of the lead atoms, creating vacancies that cause an unstable condition for the atoms. As the atoms return to their stable condition, electrons from the outer shells are transferred to the inner shells releasing energy. The Niton XLp 302A series XRF uses dual detectors to read the K-shell and L-shell energy spectrums that are produced.

XRF sampling results were obtained from each sampling area within the structure. The sampling locations were determined by the color of paint, substrate, and location within the structures. The XRF sample results are reported in mg/cm². The sampling locations are identified by room number or description, source, substrate, feature, condition of paint, and color. The site was arbitrarily designated as follows: “A” east; and “B”, “C”, and “D” proceeding clockwise in relation to side “A”. The lead-based paint sample locations are shown in Figure 2. Calibration checks were performed immediately before, after and every four hours

during the LBP survey to ensure the sample results were within the tolerance limits of the instrument's Performance Characteristic Sheet.

4.3 Waste Characterization

Components to be demolished and disposed of as part of this project were sampled to determine waste characterization for lead from the building components. The samples were collected and analyzed using TLCP for lead in accordance with the provisions of 40 CFR 261, Subpart C. TCLP waste characterization testing for lead included collecting sub-samples of the exterior brick and cinder blocks, wood, drywall, ceiling tile, window caulk, and window glaze. These samples were collected and analyzed to provide an estimate of the hazardous waste characteristics of construction debris resulting from the proposed removal/repair of the materials.

5.0 RESULTS

5.1 Asbestos Survey Results

The buildings were surveyed for ACM as a part of this investigation. A total of 21 homogeneous areas were identified and 63 samples were collected from the proposed renovation areas and are as follows:

Bldg 38

- Exterior Window Caulk
- Exterior Window Glaze
- Interior Window Caulk

Bldg 40

- 2' x 2' White Ceiling Tile
- Drywall
- Joint Compound
- Exterior Window Caulk
- Exterior Window Glaze

Bldg 73

- Exterior Window Caulk 1
- Exterior Window Caulk 2
- Interior Window Glaze

Bldg 223

- Exterior Window Caulk
- Exterior Window Glaze
- Interior Window Caulk

Bldg 606

- Exterior Window Caulk

- Exterior Window Glaze
- Interior Window Glaze

Bldg 627

- Exterior Window Caulk
- Exterior Window Glaze
- Interior Window Glaze
- Interior Window Caulk

A total of 21 homogeneous areas were sampled for asbestos containing material. Five of the 21 homogeneous areas sampled within the structures were found to contain asbestos fiber concentrations greater than 1% by EPA Method 600/R-93/116 analysis. Homogeneous areas found to contain asbestos fiber concentrations greater than 1% are as follows:

- Exterior Window Caulk, Building 606 (Homogeneous sample area 606-1) – 2% Chrysotile asbestos
- Exterior Window Glaze, Building 606 (Homogeneous sample area 606-2) – 2% Chrysotile asbestos
- Interior Window Glaze, Building 606 (Homogeneous sample area 606-3) – 2% Chrysotile asbestos
- Exterior Window Caulk, Building 627 (Homogeneous sample area 627-1) – 2% Chrysotile asbestos
- Interior Window Glaze, Building 627 (Homogeneous sample area 627-3) – 2% Chrysotile asbestos

Asbestos sample results are summarized in Table 1. Sample locations and locations of ACMs are depicted on Figures 1 through 6. Consultant, inspector, and laboratory credentials are provided in Appendix A. A copy of the laboratory analytical results and appropriate Chain of Custody Records are included in Appendix B. Photographic Documentation is included as Appendix C.

5.2 Lead-Based Paint Survey Results

Based on HUD guidelines, an XRF sample equal to or greater than 1.0 mg/cm² is considered to be the action level at which the paint is considered to be LBP. XRF sample readings (Pbc ± Pbc Error) are reported as lead concentration (Pbc) in mg/cm² plus or minus the statistical deviation (Pbc Error) that allows for 95% confidence. To determine the XRF sample result to be positive or negative, the XRF sample readings (Pbc ± Pbc Error) were reported as a 95% confidence interval compared to the HUD action-level (1.0 mg/cm²).

One hundred fifteen XRF sample locations exhibited equal to or greater than 1.0 mg/cm² and are as follows:

Building 38

- XRF No. 341, collected from the 1st floor white exterior window casing, contained a lead concentration of $4.00 \pm 1.10 \text{ mg/cm}^2$
- XRF No. 350, collected from the 1st floor white exterior window casing, contained a lead concentration of $7.10 \pm 2.30 \text{ mg/cm}^2$
- XRF No. 356, collected from the 2nd floor white exterior window casing, contained a lead concentration of $3.20 \pm 0.40 \text{ mg/cm}^2$
- XRF No. 366, collected from the 2nd floor white exterior window casing, contained a lead concentration of $2.10 \pm 0.70 \text{ mg/cm}^2$
- XRF No. 378, collected from the 2nd floor white exterior window casing, contained a lead concentration of $6.00 \pm 2.00 \text{ mg/cm}^2$
- XRF No. 383, collected from the 2nd floor white exterior window casing, contained a lead concentration of $12.60 \pm 3.20 \text{ mg/cm}^2$
- XRF No. 402, collected from the 1st floor white interior window casing, contained a lead concentration of $1.70 \pm 0.30 \text{ mg/cm}^2$
- XRF No. 405, collected from the 1st floor white interior window casing, contained a lead concentration of $15.70 \pm 4.50 \text{ mg/cm}^2$
- XRF No. 414, collected from the 1st floor white interior window casing, contained a lead concentration of $2.00 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 420, collected from the 1st floor white interior window casing, contained a lead concentration of $4.60 \pm 2.10 \text{ mg/cm}^2$
- XRF No. 423, collected from the 1st floor white interior window casing, contained a lead concentration of $1.60 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 426, collected from the 1st floor white interior window casing, contained a lead concentration of $1.80 \pm 0.50 \text{ mg/cm}^2$
- XRF No. 429, collected from the 1st floor white interior window casing, contained a lead concentration of $16.30 \pm 4.80 \text{ mg/cm}^2$
- XRF No. 432, collected from the 2nd floor white interior window casing, contained a lead concentration of $15.90 \pm 1.70 \text{ mg/cm}^2$
- XRF No. 435, collected from the 2nd floor white interior window casing, contained a lead concentration of $15.50 \pm 3.50 \text{ mg/cm}^2$
- XRF No. 438, collected from the 2nd floor white interior window casing, contained a lead concentration of $1.80 \pm 0.30 \text{ mg/cm}^2$
- XRF No. 441, collected from the 2nd floor white interior window casing, contained a lead concentration of $1.30 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 444, collected from the 2nd floor white interior window casing, contained a lead concentration of $2.00 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 448, collected from the 2nd floor white interior window casing, contained a lead concentration of $11.80 \pm 3.40 \text{ mg/cm}^2$
- XRF No. 451, collected from the 2nd floor white interior window casing, contained a lead concentration of $6.00 \pm 2.00 \text{ mg/cm}^2$
- XRF No. 454, collected from the 2nd floor white interior window casing, contained a lead concentration of $6.70 \pm 2.20 \text{ mg/cm}^2$
- XRF No. 457, collected from the 2nd floor white interior window casing, contained a lead concentration of $2.10 \pm 0.60 \text{ mg/cm}^2$

- XRF No. 460, collected from the 2nd floor white interior window casing, contained a lead concentration of $2.40 \pm 1.10 \text{ mg/cm}^2$
- XRF No. 463, collected from the 2nd floor white interior window casing, contained a lead concentration of $5.40 \pm 1.70 \text{ mg/cm}^2$

Building 40

- XRF No. 93, collected from the 1st floor white interior window casing, contained a lead concentration of $2.10 \pm 0.70 \text{ mg/cm}^2$
- XRF No. 95, collected from the 1st floor white interior window casing, contained a lead concentration of $1.60 \pm 0.50 \text{ mg/cm}^2$
- XRF No. 99, collected from the 1st floor white exterior window upper sash, contained a lead concentration of $2.40 \pm 0.70 \text{ mg/cm}^2$
- XRF No. 100, collected from the 1st floor white exterior window casing, contained a lead concentration of $25.40 \pm 2.20 \text{ mg/cm}^2$
- XRF No. 101, collected from the 1st floor white exterior window casing, contained a lead concentration of $1.30 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 104, collected from the 1st floor white exterior window upper sash, contained a lead concentration of $6.60 \pm 1.10 \text{ mg/cm}^2$
- XRF No. 106, collected from the 1st floor white exterior window casing, contained a lead concentration of $1.50 \pm 0.40 \text{ mg/cm}^2$
- XRF No. 112, collected from the 1st floor white exterior window casing, contained a lead concentration of $7.70 \pm 5.60 \text{ mg/cm}^2$
- XRF No. 113, collected from the 1st floor white exterior window upper sash, contained a lead concentration of $2.90 \pm 0.80 \text{ mg/cm}^2$
- XRF No. 115, collected from the 1st floor white exterior window above door casing, contained a lead concentration of $22.20 \pm 5.30 \text{ mg/cm}^2$
- XRF No. 119, collected from the 1st floor white exterior window above door casing, contained a lead concentration of $21.80 \pm 2.10 \text{ mg/cm}^2$
- XRF No. 124, collected from the 1st floor white exterior window casing, contained a lead concentration of $15.30 \pm 3.30 \text{ mg/cm}^2$
- XRF No. 126, collected from the 1st floor white exterior window sash, contained a lead concentration of $1.80 \pm 0.50 \text{ mg/cm}^2$
- XRF No. 128, collected from the 1st floor white exterior window casing, contained a lead concentration of $3.80 \pm 0.80 \text{ mg/cm}^2$
- XRF No. 130, collected from the 1st floor white exterior window muntin, contained a lead concentration of $1.40 \pm .40 \text{ mg/cm}^2$
- XRF No. 131, collected from the 1st floor white exterior window casing, contained a lead concentration of $20.30 \pm 2.10 \text{ mg/cm}^2$
- XRF No. 134, collected from the 1st floor white exterior window casing, contained a lead concentration of $2.00 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 135, collected from the 1st floor white exterior window casing, contained a lead concentration of $1.40 \pm 0.40 \text{ mg/cm}^2$
- XRF No. 138, collected from the 1st floor white exterior window lower sash, contained a lead concentration of $1.60 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 139, collected from the 1st floor white exterior window upper sash, contained a lead concentration of $1.80 \pm 0.70 \text{ mg/cm}^2$

- XRF No. 140, collected from the 1st floor white exterior window lower sash, contained a lead concentration of 14.70 ± 2.90 mg/cm²
- XRF No. 142, collected from the 1st floor white exterior window casing, contained a lead concentration of 2.60 ± 0.80 mg/cm²
- XRF No. 146, collected from the 1st floor white exterior window upper sash, contained a lead concentration of 1.80 ± 0.60 mg/cm²
- XRF No. 287, collected from the 1st floor white interior window lower sash, contained a lead concentration of 1.50 ± 0.40 mg/cm²
- XRF No. 290, collected from the 1st floor white interior window casing, contained a lead concentration of 10.80 ± 1.40 mg/cm²
- XRF No. 292, collected from the 1st floor white interior window sash, contained a lead concentration of 3.20 ± 0.40 mg/cm²
- XRF No. 294, collected from the 1st floor white interior window sash, contained a lead concentration of 2.30 ± 0.60 mg/cm²
- XRF No. 295, collected from the 1st floor white interior window casing, contained a lead concentration of 11.10 ± 1.20 mg/cm²
- XRF No. 298, collected from the 2nd floor blue interior window casing, contained a lead concentration of 20.70 ± 4.00 mg/cm²
- XRF No. 299, collected from the 2nd floor blue interior window casing, contained a lead concentration of 10.90 ± 1.10 mg/cm²
- XRF No. 300, collected from the 2nd floor blue interior window muntin, contained a lead concentration of 4.40 ± 1.30 mg/cm²
- XRF No. 301, collected from the 2nd floor blue interior window lower sash, contained a lead concentration of 11.30 ± 2.80 mg/cm²
- XRF No. 305, collected from the 2nd floor blue interior window casing, contained a lead concentration of 16.70 ± 3.50 mg/cm²
- XRF No. 309, collected from the 2nd floor blue interior window casing, contained a lead concentration of 13.30 ± 6.80 mg/cm²
- XRF No. 312, collected from the 2nd floor blue interior window casing, contained a lead concentration of 21.00 ± 3.60 mg/cm²
- XRF No. 313, collected from the 2nd floor white interior window casing, contained a lead concentration of 29.60 ± 4.10 mg/cm²
- XRF No. 314, collected from the 2nd floor green interior window muntin, contained a lead concentration of 12.20 ± 3.40 mg/cm²
- XRF No. 316, collected from the 2nd floor blue interior window muntin, contained a lead concentration of 7.30 ± 1.10 mg/cm²
- XRF No. 317, collected from the 2nd floor blue interior window upper sash, contained a lead concentration of 2.40 ± 0.50 mg/cm²
- XRF No. 318, collected from the 2nd floor white interior window casing, contained a lead concentration of 19.70 ± 3.10 mg/cm²
- XRF No. 319, collected from the 2nd floor blue interior window muntin, contained a lead concentration of 2.30 ± 0.60 mg/cm²
- XRF No. 320, collected from the 2nd floor blue interior window upper sash, contained a lead concentration of 1.70 ± 0.40 mg/cm²
- XRF No. 321, collected from the 2nd floor blue interior window casing, contained a lead concentration of 8.00 ± 2.20 mg/cm²

- XRF No. 322, collected from the 2nd floor blue interior window casing, contained a lead concentration of $11.90 \pm 3.10 \text{ mg/cm}^2$
- XRF No. 323, collected from the 2nd floor blue interior window sash, contained a lead concentration of $7.90 \pm 2.30 \text{ mg/cm}^2$
- XRF No. 325, collected from the 2nd floor white interior window casing, contained a lead concentration of $15.50 \pm 3.20 \text{ mg/cm}^2$
- XRF No. 328, collected from the 2nd floor white interior window sash, contained a lead concentration of $1.20 \pm 0.10 \text{ mg/cm}^2$
- XRF No. 329, collected from the 2nd floor white interior window casing, contained a lead concentration of $20.10 \pm 3.60 \text{ mg/cm}^2$
- XRF No. 331, collected from the 2nd floor white interior window sash, contained a lead concentration of $11.30 \pm 5.80 \text{ mg/cm}^2$

Building 73

- XRF No. 224, collected from the white exterior window casing, contained a lead concentration of $3.00 \pm 0.70 \text{ mg/cm}^2$
- XRF No. 227, collected from the white exterior window casing, contained a lead concentration of $4.10 \pm 1.20 \text{ mg/cm}^2$
- XRF No. 233, collected from the white exterior window casing, contained a lead concentration of $4.20 \pm 1.20 \text{ mg/cm}^2$
- XRF No. 234, collected from the white exterior window casing, contained a lead concentration of $5.40 \pm 2.00 \text{ mg/cm}^2$

Building 223

- XRF No. 166, collected from the white exterior window lower sash, contained a lead concentration of $2.10 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 170, collected from the white exterior window casing, contained a lead concentration of $12.90 \pm 1.20 \text{ mg/cm}^2$
- XRF No. 172, collected from the white exterior window muntin, contained a lead concentration of $4.50 \pm 1.70 \text{ mg/cm}^2$
- XRF No. 173, collected from the white exterior window lower sash, contained a lead concentration of $8.40 \pm 1.20 \text{ mg/cm}^2$
- XRF No. 174, collected from the white exterior window muntin, contained a lead concentration of $1.80 \pm 0.80 \text{ mg/cm}^2$
- XRF No. 175, collected from the white exterior window casing, contained a lead concentration of $11.10 \pm 2.60 \text{ mg/cm}^2$
- XRF No. 176, collected from the white exterior window muntin, contained a lead concentration of $2.70 \pm 0.70 \text{ mg/cm}^2$
- XRF No. 178, collected from the white exterior window upper sash, contained a lead concentration of $6.30 \pm 2.60 \text{ mg/cm}^2$
- XRF No. 180, collected from the white exterior window lower sash, contained a lead concentration of $1.80 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 182, collected from the white exterior window casing, contained a lead concentration of $5.50 \pm 0.90 \text{ mg/cm}^2$

- XRF No. 186, collected from the white exterior upper window, contained a lead concentration of $4.70 \pm 1.50 \text{ mg/cm}^2$
- XRF No. 187, collected from the white exterior window casing, contained a lead concentration of $1.60 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 188, collected from the white exterior window lower sash, contained a lead concentration of $4.20 \pm 1.80 \text{ mg/cm}^2$
- XRF No. 190, collected from the white exterior window casing, contained a lead concentration of $5.60 \pm 1.10 \text{ mg/cm}^2$
- XRF No. 193, collected from the white exterior window casing, contained a lead concentration of $11.80 \pm 8.60 \text{ mg/cm}^2$
- XRF No. 194, collected from the white exterior window muntin, contained a lead concentration of $11.50 \pm 2.70 \text{ mg/cm}^2$
- XRF No. 195, collected from the white exterior window upper sash, contained a lead concentration of $11.60 \pm 2.70 \text{ mg/cm}^2$
- XRF No. 197, collected from the white exterior upper window, contained a lead concentration of $1.50 \pm 0.40 \text{ mg/cm}^2$

Building 606

- XRF No. 45, collected from the 1st floor brown exterior window, contained a lead concentration of $1.40 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 54 collected from the 2nd floor brown exterior window, contained a lead concentration of $1.40 \pm 0.30 \text{ mg/cm}^2$
- XRF No. 56, collected from the 2nd floor brown exterior window, contained a lead concentration of $1.20 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 68, collected from the 1st floor white interior window, contained a lead concentration of $4.40 \pm 1.00 \text{ mg/cm}^2$
- XRF No. 69, collected from the 1st floor white interior window, contained a lead concentration of $4.30 \pm 1.20 \text{ mg/cm}^2$

Building 627

- XRF No. 7 collected from the 2nd floor brown exterior window, contained a lead concentration of $1.30 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 9 collected from the 2nd floor brown exterior window, contained a lead concentration of $1.00 \pm 0.10 \text{ mg/cm}^2$
- XRF No. 10 collected from the 2nd floor brown exterior window, contained a lead concentration of $3.00 \pm 0.80 \text{ mg/cm}^2$
- XRF No. 11 collected from the 2nd floor brown exterior window, contained a lead concentration of $2.40 \pm 0.80 \text{ mg/cm}^2$
- XRF No. 12 collected from the 2nd floor brown exterior window, contained a lead concentration of $1.20 \pm 0.10 \text{ mg/cm}^2$
- XRF No. 13 collected from the 2nd floor brown exterior window, contained a lead concentration of $2.10 \pm 0.70 \text{ mg/cm}^2$
- XRF No. 16 collected from the 2nd floor brown exterior window, contained a lead concentration of $2.20 \pm 0.60 \text{ mg/cm}^2$
- XRF No. 17 collected from the 2nd floor brown exterior window, contained a lead concentration of $1.40 \pm 0.20 \text{ mg/cm}^2$

- XRF No. 18 collected from the 2nd floor brown exterior window, contained a lead concentration of $1.60 \pm 0.40 \text{ mg/cm}^2$
- XRF No. 21 collected from the 2nd floor brown exterior window, contained a lead concentration of $3.70 \pm 0.80 \text{ mg/cm}^2$
- XRF No. 23 collected from the 2nd floor brown exterior window, contained a lead concentration of $2.00 \pm 0.50 \text{ mg/cm}^2$
- XRF No. 24 collected from the 2nd floor brown exterior window, contained a lead concentration of $1.20 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 30 collected from the 1st floor brown exterior window, contained a lead concentration of $1.40 \pm 0.20 \text{ mg/cm}^2$
- XRF No. 73 collected from the 1st floor white interior window, contained a lead concentration of $1.90 \pm 0.70 \text{ mg/cm}^2$
- XRF No. 76, collected from the 1st floor white interior window, contained a lead concentration of $1.70 \pm 0.60 \text{ mg/cm}^2$

A summary of XRF sample results are provided in Table 2. XRF sample locations are depicted on Figures 1 through 6.

5.3 Waste Characterization Results

One composite sample from each building was collected from building components which included the exterior brick and cinder blocks, concrete slab, wood, drywall, ceiling tile, window caulk, and window glaze for laboratory analysis by TCLP for lead. The laboratory results of the TCLP lead analysis were less than 0.40 mg/L for the composite samples collected from Buildings 38 (38-TCLP), 73 (73-TCLP), 223 (223-TCLP), 606 (606-TCLP), and 627 (627-TCLP). The analytical results are below the EPA TCLP level for lead of 5.0 mg/L. The laboratory result of the TCLP lead analysis was 9.3 mg/L for the composite sample collected at Building 40 (40-TCLP) which exceeds the EPA TCLP level for lead. A copy of the laboratory analytical results and appropriate Chain of Custody Records is included as Appendix B.

6.0 CONCLUSIONS AND RECOMMENDATIONS

AEROSTAR has completed an ACM Survey, LBP Survey, and Waste Characterization for Lead of Buildings 38, 40, 73, 223, 606, and 627 located at NAS Pensacola, Pensacola, Escambia County, Florida.

6.1 Asbestos Containing Materials

Analytical results of the samples revealed that five of the homogeneous areas sampled contained asbestos in concentrations greater than 1% by PLM analysis. The positive homogeneous areas identified included exterior window caulk, exterior window glaze, and interior window glaze at Building 606; and exterior window caulk and interior window glaze at Building 627.

Window caulk and glaze are NESHAP Category II non-friable ACMs. NESHAP Category II non-friable ACMs are not required to be removed prior to demolition of the building, provided

that wet-demolition practices are implemented during renovations and resulting debris from the building is properly transported to a landfill permitted for disposal of ACM. If NESHAP Category II non-friable ACMs are in poor condition or become friable during demolition, the material must be treated as a RACM and be removed by a licensed asbestos abatement contractor and disposed of at a class one landfill prior to renovation, remodeling, or demolition of the building.

Due to the presence of ACM, OSHA's Asbestos Standard for the Construction Industry (29 CFR 1926.1101) must be followed. Any renovation, remodeling, or demolition of ACMs must be handled by a Licensed Contractor for Asbestos Abatement.

In accordance with the OSHA Asbestos Standard for the Construction Industry (29 CFR 1926.1101), demolition of a building with ACM left in place falls under the definition of removal of installed ACM. The removal of installed ACM is either Class I or Class II asbestos work, and all applicable requirements of this standard apply. Whether such demolition is Class I asbestos work or Class II asbestos work is determined by the type of ACM left in place. If any asbestos-containing thermal system insulation or surfacing material is left installed in the building, then the work being performed is Class I asbestos work. If the ACM left installed in the building does not include any thermal system insulation or surfacing material, then the work being performed is Class II asbestos work.

Suspect ACMs encountered during renovation/demolition activities that are not identified in this survey should be assumed to contain asbestos or be sampled by an AHERA-certified inspector and analyzed by an accredited laboratory.

6.2 Lead-Based Paint

HUD guidelines state that paint containing a lead concentration greater than or equal to 0.5 % wt by laboratory analysis or 1.0 mg/cm² of lead by XRF is considered to be LBP. XRF sample results were equal to or greater than 1.0 mg/cm² in 115 samples collected. The following building components exhibited XRF sample results containing lead concentrations greater than 1.0 mg/cm²:

- White paint found on the interior and exterior of the windows at Buildings 38, 40, and 223.
- White paint found on the exterior of the windows at Building 73.
- White paint found on the interior of the windows at Buildings 606 and 627.
- Blue paint found on the interior of the 2nd floor windows at Building 40.
- Green paint found on the interior of the 2nd floor window muntins at Building 40.
- Brown paint found on the exterior of the 2nd floor windows at Buildings 606 and 627.

HUD guidelines state that paint containing a lead concentration greater than or equal to 0.5 % wt by laboratory analysis or 1.0 mg/cm² of lead by XRF is considered to be LBP. HUD's definition of LBP cannot be used to determine safe working conditions under OSHA. OSHA's Lead in Construction Standard, 29 CFR 1926.62, was intended to apply to any detectable concentration of lead in paint by laboratory analysis. OSHA's only accepted methodology for

determining an employee's exposure to airborne lead contaminants is through personal air monitoring. Any paint with detectable concentrations of lead, by XRF or laboratory analysis that is subjected to cutting, abrading, welding, scraping, and/or sanding, must be handled in accordance with 29 CFR 1926.62, to prevent employee exposure.

6.3 Waste Characterization

One composite sample from each building was collected from building components which included the exterior brick and cinder blocks, concrete slab, wood, drywall, ceiling tile, window caulk, and window glaze for laboratory analysis by TCLP for lead. The laboratory results of the TCLP lead analysis were less than 0.40 mg/L for samples collected at Buildings 38, 73, 223, 606, and 627. The analytical results are below the EPA TCLP level of 5.0 mg/L for lead. Based on the laboratory analytical results, the construction debris resulting from the renovation of the identified components is identified as non-hazardous waste for Buildings 38, 73, 223, 606, and 627. No further analysis at these buildings is required. The laboratory result of the TCLP lead analysis for the composite sample collected at Building 40 is 9.3 mg/L. The analytical result is above the EPA TCLP level of 5.0 mg/L for lead. Based on the laboratory analytical results, the construction debris resulting from the renovation of the structure's components is identified as hazardous waste for Building 40. This construction debris should be disposed of at a state-approved landfill for hazardous materials.

TABLES

TABLE 1
Summary of Asbestos Survey
Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida

HOMOGENEOUS SAMPLE ID	MATERIAL DESCRIPTION	LOCATION	APPROXIMATE AMOUNT	NUMBER OF SAMPLES COLLECTED	ASBESTOS TYPE %	NESHAP CATEGORY	CONDITION
Building 38							
38-1-1, 38-1-2, 38-1-3	Exterior Window Caulk	Exterior window (north, west, east)	3,500 LF	3	ND	-	GOOD
38-2-1, 38-2-2, 38-2-3	Exterior Window Glaze	Exterior window (north, west, east)	2,500 LF	3	ND	-	GOOD
38-3-1, 38-3-2, 38-3-3	Interior Window Caulk	Interior window (west, east, south)	3,500 LF	3	ND	-	GOOD
Building 40							
40-1-1, 40-1-2, 40-1-3	2'x2' Acoustical White Ceiling Tile	Male and female heads	72 SF	3	ND	-	GOOD
40-2-1, 40-2-2, 40-2-3	Gypsum Drywall	Male and female heads	200 SF	3	ND	-	GOOD
40-3-1, 40-3-2, 40-3-3	Joint Compound	Male and female heads	20 SF	3	ND	-	GOOD
40-4-1, 40-4-2, 40-4-3	Exterior Window Caulk	Exterior window (east, west, south)	2,000 SF	3	<1% Chrysotile	-	GOOD
40-5-1, 40-5-2, 40-5-3	Exterior Window Glaze	Exterior window (east, west, south)	2,000 SF	3	ND	-	GOOD
Building 73							
73-1-1, 73-1-2, 73-1-3	Exterior Window Caulk 1	Exterior window (northend)	1,900 LF	3	ND	-	GOOD
73-2-1, 73-2-2, 73-2-3	Exterior Window Caulk 2	Exterior window (northend - west, north, east)	1,900 LF	3	ND	-	GOOD
73-3-1, 73-3-2, 73-3-3	Interior Window Glaze	Interior window (northend)	1,900 LF	3	ND	-	GOOD
Building 223							
223-1-1, 223-1-2, 223-1-3	Exterior Window Caulk	Exterior window (south, east, north)	300 LF	3	ND	-	GOOD
223-2-1, 223-2-2, 223-2-3	Exterior Window Glaze	Exterior window (south, east, north)	45 LF	3	ND	-	GOOD
223-3-1, 223-3-2, 223-3-3	Interior Window Caulk	Interior window (west and east)	300 LF	3	ND	-	GOOD
Building 606							
606-1-1, 606-1-2, 606-1-3	Exterior Window Caulk	Exterior window (north)	1,950 LF	3	2% Chrysotile	NF Cat II	GOOD
606-2-1, 606-2-2, 606-2-3	Exterior Window Glaze	Exterior window (north)	1,950 LF	3	2% Chrysotile	NF Cat II	GOOD
606-3-1, 606-3-2, 606-3-3	Interior Window Glaze	Exterior window (north)	1,950 LF	3	2% Chrysotile	NF Cat II	GOOD
Building 627							
627-1-1, 627-1-2, 627-1-3	Exterior Window Caulk	Exterior window (north)	1,500 LF	3	2% Chrysotile	NF Cat II	GOOD
627-2-1, 627-2-2, 627-2-3	Exterior Window Glaze	Exterior window (north)	1,500 LF	3	ND	-	GOOD
627-3-1, 627-3-2, 627-3-3	Interior Window Glaze	Interior window (north)	1,500 LF	3	2% Chrysotile	NF Cat II	GOOD
627-4-1, 627-4-2, 627-4-4	Interior Window Caulk	Interior window (south)	1,500 LF	3	ND	-	GOOD

ND - None Detected NF Cat. I - Non-Friable Category I ACM
SF - Square Feet NF Cat. II - Non-Friable Category II
LF - Linear Feet RACM - Regulated Asbestos Containing Material

Table 2
Summary of XRF Survey
Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
1			CALIBRATE					POSITIVE	1.10	0.10
2			CALIBRATE					POSITIVE	1.00	0.10
3			CALIBRATE					POSITIVE	1.10	0.10
4			CALIBRATE					NEGATIVE	0.01	0.03
5			CALIBRATE					NEGATIVE	0.00	0.02
6			CALIBRATE					NEGATIVE	0.00	0.02
7	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	1.30	0.20
8	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.80	0.20
9	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	1.00	0.10
10	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	3.00	0.80
11	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	2.40	0.80
12	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	1.20	0.10
13	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	2.10	0.70
14	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.40	0.20
15	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.25	0.09
16	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	2.20	0.60
17	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	1.40	0.20
18	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	1.60	0.40
19	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.26	0.07
20	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.70	0.10
21	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	3.70	0.80
22	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.80	0.10
23	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	2.00	0.50
24	627	SECOND FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	1.20	0.20
25	627	FIRST FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.04	0.05
26	627	FIRST FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.22	0.10
27	627	FIRST FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.01	0.02
28	627	FIRST FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.01	0.02
29	627	FIRST FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	NEGATIVE	0.01	0.03
30	627	FIRST FLOOR EXT	WINDOW	METAL	A	INTACT	BROWN	POSITIVE	1.40	0.20
31	627	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.08	0.08
32	627	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.00	0.02
33	627	FIRST FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	NEGATIVE	0.00	0.02
34	627	FIRST FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	NEGATIVE	0.00	0.02
35	627	FIRST FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	NEGATIVE	0.01	0.02
36	627	FIRST FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	NEGATIVE	0.00	0.02
37	627	SECOND FLOOR EXT	WINDOW COVER	WOOD	C	INTACT	BROWN	NEGATIVE	0.00	0.02
38	627	SECOND FLOOR EXT	WINDOW COVER	WOOD	C	INTACT	BROWN	NEGATIVE	0.00	0.02
39	627	SECOND FLOOR EXT	WINDOW COVER	WOOD	C	INTACT	BROWN	NEGATIVE	0.00	0.02
40	627	SECOND FLOOR EXT	WINDOW COVER	WOOD	C	INTACT	BROWN	NEGATIVE	0.00	0.02
41	606	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.00	0.02
42	606	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.21	0.15
43	606	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.50	0.40

<LOD = Less than Limit of Detection
Null = Inconclusive XRF Reading
*= Denotes ceiling/floor sample locations

Table 2
Summary of XRF Survey
Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
44	606	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.13	0.06
45	606	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	POSITIVE	1.40	0.20
46	606	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.90	0.10
47	606	FIRST FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.80	0.20
48	606	SECOND FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.40	0.20
49	606	SECOND FLOOR EXT	WINDOW COVER	METAL	A	PEELING	BROWN	NEGATIVE	0.00	0.02
50	606	SECOND FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.15	0.05
51	606	SECOND FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.10	0.06
52	606	SECOND FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	NEGATIVE	0.60	0.10
53	606	SECOND FLOOR EXT	WINDOW COVER	WOOD	A	INTACT	BROWN	NEGATIVE	0.02	0.07
54	606	SECOND FLOOR EXT	WINDOW	METAL	A	PEELING	BROWN	POSITIVE	1.40	0.30
55	606	SECOND FLOOR EXT	WINDOW	METAL	B	INTACT	BROWN	NEGATIVE	0.50	0.10
56	606	SECOND FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	POSITIVE	1.20	0.20
57	606	SECOND FLOOR EXT	WINDOW	METAL	C	PEELING	BROWN	NEGATIVE	0.30	0.17
58	606	SECOND FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	NEGATIVE	0.10	0.04
59	606	SECOND FLOOR EXT	WINDOW	METAL	C	PEELING	BROWN	NEGATIVE	0.21	0.15
60	606	SECOND FLOOR EXT	WINDOW	METAL	C	PEELING	BROWN	NEGATIVE	0.05	0.08
61	606	SECOND FLOOR EXT	WINDOW	METAL	B	INTACT	BROWN	NEGATIVE	0.40	0.20
62	606	FIRST FLOOR EXT	WINDOW	METAL	C	PEELING	BROWN	NEGATIVE	0.00	0.02
63	606	FIRST FLOOR EXT	WINDOW	METAL	C	PEELING	BROWN	NEGATIVE	0.00	0.02
64	606	FIRST FLOOR EXT	WINDOW	METAL	C	PEELING	BROWN	NEGATIVE	0.30	0.25
65	606	FIRST FLOOR EXT	WINDOW	METAL	C	PEELING	BROWN	NEGATIVE	0.17	0.14
66	606	FIRST FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	NEGATIVE	0.24	0.12
67	606	FIRST FLOOR EXT	WINDOW	METAL	C	INTACT	BROWN	NEGATIVE	0.28	0.13
68	606	FIRST FLOOR INT	WINDOW	METAL	C	PEELING	WHITE	POSITIVE	4.40	1.00
69	606	FIRST FLOOR INT	WINDOW	METAL	C	PEELING	WHITE	POSITIVE	4.30	1.20
70	606	FIRST FLOOR INT	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
71	606	FIRST FLOOR INT	WINDOW	METAL	C	INTACT	WHITE	NEGATIVE	0.00	0.02
72	606	FIRST FLOOR INT	WINDOW	METAL	A	INTACT	WHITE	NEGATIVE	0.13	0.24
73	627	FIRST FLOOR INT	WINDOW	METAL	A	PEELING	WHITE	POSITIVE	1.90	0.70
74	627	FIRST FLOOR INT	WINDOW	METAL	A	INTACT	WHITE	NEGATIVE	0.15	0.16
75	627	FIRST FLOOR INT	WINDOW	METAL	A	INTACT	WHITE	NEGATIVE	0.23	0.13
76	627	FIRST FLOOR INT	WINDOW	METAL	A	INTACT	WHITE	POSITIVE	1.70	0.60
77	627	FIRST FLOOR INT	WINDOW	METAL	A	INTACT	WHITE	NEGATIVE	0.01	0.02
78	627	FIRST FLOOR INT	WINDOW	METAL	A	INTACT	WHITE	NEGATIVE	0.40	0.20
79	627	FIRST FLOOR INT	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.50	0.10
80	40	FIRST FLOOR INT	WALL	DRYWALL	B	INTACT	WHITE	NEGATIVE	0.00	0.02
81	40	FIRST FLOOR INT	WALL	DRYWALL	A	INTACT	WHITE	NEGATIVE	0.00	0.02
82	40	FIRST FLOOR INT	WALL	DRYWALL	D	INTACT	WHITE	NEGATIVE	0.00	0.02
83	40	FIRST FLOOR INT	WALL	DRYWALL	C	INTACT	WHITE	NEGATIVE	0.00	0.02
84	40	FIRST FLOOR INT	WALL	DRYWALL	B	INTACT	WHITE	NEGATIVE	0.00	0.02
85	40	FIRST FLOOR INT	WALL	DRYWALL	A	INTACT	WHITE	NEGATIVE	0.00	0.02
86	40	FIRST FLOOR INT	WALL	DRYWALL	D	INTACT	WHITE	NEGATIVE	0.01	0.03

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Table 2
Summary of XRF Survey
Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
87	40	FIRST FLOOR INT	WALL	DRYWALL	C	INTACT	WHITE	NEGATIVE	0.00	0.02
88	40	FIRST FLOOR INT	BURGLAR BARS	METAL	B	INTACT	WHITE	NEGATIVE	0.00	0.02
89	40	FIRST FLOOR INT	BURGLAR BARS	METAL	B	INTACT	WHITE	NEGATIVE	0.00	0.02
90	40	FIRST FLOOR INT	BURGLAR BARS	METAL	B	INTACT	WHITE	NEGATIVE	0.02	0.07
91	40	FIRST FLOOR INT	BURGLAR BARS	METAL	D	INTACT	WHITE	NEGATIVE	0.00	0.02
92	40	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.03	0.09
93	40	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	2.10	0.70
94	40	FIRST FLOOR INT	WINDOW	WOOD	B	PEELING	WHITE	NEGATIVE	0.70	0.10
95	40	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	PEELING	WHITE	POSITIVE	1.60	0.50
96	40	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	B	PEELING	WHITE	NEGATIVE	0.50	0.30
97	40	FIRST FLOOR INT	WINDOW - SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.01	0.03
98	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.80	0.10
99	40	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	POSITIVE	2.40	0.70
100	40	FIRST FLOOR EXT	WINDOW CASING	WOOD	B	INTACT	WHITE	POSITIVE	25.40	2.20
101	40	FIRST FLOOR EXT	WINDOW CASING	WOOD	A	INTACT	WHITE	POSITIVE	1.30	0.20
102	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.20	0.11
103	40	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.28	0.08
104	40	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	POSITIVE	6.60	1.10
105	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.50	0.20
106	40	FIRST FLOOR EXT	WINDOW CASING	WOOD	D	INTACT	WHITE	POSITIVE	1.50	0.40
107	40	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.60	0.20
108	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.28	0.12
109	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NULL	1.30	0.40
110	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NULL	0.30	0.40
111	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NULL	0.40	0.20
112	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	7.70	5.60
113	40	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	POSITIVE	2.90	0.80
114	40	FIRST FLOOR EXT	WINDOW ABOVE DOOR - SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02
115	40	FIRST FLOOR EXT	WINDOW ABOVE DOOR - CASING	WOOD	A	INTACT	WHITE	POSITIVE	22.20	5.30
116	40	FIRST FLOOR EXT	WINDOW ABOVE DOOR - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02
117	40	FIRST FLOOR EXT	WINDOW ABOVE DOOR - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.01	0.05
118	40	FIRST FLOOR EXT	WINDOW ABOVE DOOR - SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.01	0.04
119	40	FIRST FLOOR EXT	WINDOW ABOVE DOOR - CASING	WOOD	A	INTACT	WHITE	POSITIVE	21.80	2.10
120	40	SECOND FLOOR EXT	WINDOW ABOVE DOOR - CASING	WOOD	B	INTACT	WHITE	NULL	0.18	0.96
121	40	SECOND FLOOR EXT	WINDOW ABOVE DOOR - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.03	0.03
122	40	SECOND FLOOR EXT	WINDOW ABOVE DOOR - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.13	0.14
123	40	SECOND FLOOR EXT	WINDOW ABOVE DOOR - SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.19	0.20
124	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	15.30	3.30
125	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.27	0.19
126	40	FIRST FLOOR EXT	WINDOW - SASH	WOOD	D	INTACT	WHITE	POSITIVE	1.80	0.50
127	40	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.60	0.20
128	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	3.80	0.80
129	40	FIRST FLOOR EXT	WINDOW - SILL	WOOD	D	INTACT	WHITE	NEGATIVE	0.16	0.15

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NAS Pensacola
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XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
130	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	POSITIVE	1.40	0.40
131	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	C	INTACT	WHITE	POSITIVE	20.30	2.10
132	40	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	C	INTACT	WHITE	NEGATIVE	0.30	0.37
133	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	C	INTACT	WHITE	NEGATIVE	0.00	0.02
134	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	C	INTACT	WHITE	POSITIVE	2.00	0.60
135	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	1.40	0.40
136	40	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NULL	0.80	0.20
137	40	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NULL	1.60	0.70
138	40	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	POSITIVE	1.60	0.60
139	40	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	POSITIVE	1.80	0.70
140	40	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	POSITIVE	14.70	2.90
141	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
142	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	2.60	0.80
143	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NULL	0.40	0.50
144	40	FIRST FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.40	0.40
145	40	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.30	0.14
146	40	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	POSITIVE	1.80	0.60
147			CALIBRATE					POSITIVE	1.00	0.10
148			CALIBRATE					POSITIVE	1.00	0.10
149			CALIBRATE					POSITIVE	1.10	0.10
150			CALIBRATE					NEGATIVE	0.00	0.02
151			CALIBRATE					NEGATIVE	0.01	0.05
152			CALIBRATE					NEGATIVE	0.00	0.02
153			SHUTTER CAL						2.59	0.00
154			CALIBRATE					POSITIVE	1.00	0.10
155			CALIBRATE					POSITIVE	1.10	0.10
156			CALIBRATE					POSITIVE	1.00	0.10
157			CALIBRATE					NEGATIVE	0.00	0.02
158			CALIBRATE					NEGATIVE	0.00	0.02
159			CALIBRATE					NEGATIVE	0.00	0.02
160	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	C	INTACT	WHITE	NEGATIVE	0.00	0.02
161	223	EXTERIOR	WINDOW - MUNTIN	WOOD	C	INTACT	WHITE	NEGATIVE	0.01	0.06
162	223	EXTERIOR	WINDOW - CASING	WOOD	C	INTACT	WHITE	NEGATIVE	0.00	0.02
163	223	EXTERIOR	WINDOW - CASING	WOOD	B	PEELING	WHITE	NEGATIVE	0.00	0.02
164	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	PEELING	WHITE	NEGATIVE	0.00	0.02
165	223	EXTERIOR	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
166	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	B	PEELING	WHITE	POSITIVE	2.10	0.60
167	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NULL	0.80	0.50
168	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NULL	0.24	0.26
169	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.50	0.20
170	223	EXTERIOR	WINDOW - CASING	WOOD	B	PEELING	WHITE	POSITIVE	12.90	1.20
171	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	PEELING	WHITE	NULL	5.10	10.90
172	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	POSITIVE	4.50	1.70

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Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm²)	PBC ERROR (mg/cm²)
173	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	POSITIVE	8.40	1.20
174	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	POSITIVE	1.80	0.80
175	223	EXTERIOR	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	11.10	2.60
176	223	EXTERIOR	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	POSITIVE	2.70	0.70
177	223	EXTERIOR	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	NULL	3.50	9.70
178	223	EXTERIOR	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	POSITIVE	6.30	2.60
179	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	A	INTACT	WHITE	NULL	1.00	0.20
180	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	A	INTACT	WHITE	POSITIVE	1.80	0.60
181	223	EXTERIOR	WINDOW - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.11	0.14
182	223	EXTERIOR	WINDOW - CASING	WOOD	A	INTACT	WHITE	POSITIVE	5.50	0.90
183	223	EXTERIOR	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
184	223	EXTERIOR	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.01	0.02
185	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
186	223	EXTERIOR	WINDOW - UPPER WINDOW	WOOD	D	PEELING	WHITE	POSITIVE	4.70	1.50
187	223	EXTERIOR	WINDOW - CASING	WOOD	D	PEELING	WHITE	POSITIVE	1.60	0.60
188	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	POSITIVE	4.20	1.80
189	223	EXTERIOR	WINDOW - MUNTIN	WOOD	D	PEELING	WHITE	NEGATIVE	0.00	0.02
190	223	EXTERIOR	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	5.60	1.10
191	223	EXTERIOR	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.70	0.20
192	223	EXTERIOR	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.07	0.15
193	223	EXTERIOR	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	11.80	8.60
194	223	EXTERIOR	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	POSITIVE	11.50	2.70
195	223	EXTERIOR	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	POSITIVE	11.60	2.70
196	223	EXTERIOR	WINDOW - UPPER WINDOW	WOOD	D	INTACT	WHITE	NULL	1.10	0.70
197	223	EXTERIOR	WINDOW - UPPER WINDOW	WOOD	D	INTACT	WHITE	POSITIVE	1.50	0.40
198	73	EXT - UPPER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
199	73	EXT - UPPER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.03	0.06
200	73	EXT - UPPER LEVEL	WINDOW - CASING	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
201	73	EXT - UPPER LEVEL	WINDOW - CASING	METAL	A	INTACT	WHITE	NEGATIVE	0.00	0.02
202	73	EXT - LOWER LEVEL	WINDOW	METAL	A	INTACT	WHITE	NEGATIVE	0.00	0.02
203	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
204	73	EXT - LOWER LEVEL	WINDOW	METAL	A	INTACT	WHITE	NEGATIVE	0.00	0.02
205	73	EXT - LOWER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
206	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
207	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
208	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	INTACT	WHITE	NEGATIVE	0.00	0.02
209	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	NEGATIVE	0.07	0.12
210	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.13	0.23
211	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.03	0.10
212	73	EXT - UPPER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
213	73	EXT - UPPER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
214	73	EXT - UPPER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
215	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	NEGATIVE	0.14	0.16

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216	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	NEGATIVE	0.06	0.21
217	73	EXT - UPPER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
218	73	EXT - UPPER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
219	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.11	0.15
220	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
221	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	NEGATIVE	0.13	0.29
222	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	INTACT	WHITE	NEGATIVE	0.06	0.11
223	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	NULL	1.30	4.50
224	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	POSITIVE	3.00	0.70
225	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.15	0.15
226	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.14	0.13
227	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	POSITIVE	4.10	1.20
228	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	NEGATIVE	0.80	0.20
229	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.01	0.02
230	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.00	0.02
231	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.02	0.05
232	73	EXT - LOWER LEVEL	WINDOW	METAL	B	PEELING	WHITE	NEGATIVE	0.05	0.12
233	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	POSITIVE	4.20	1.20
234	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	B	PEELING	WHITE	POSITIVE	5.40	2.00
235	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
236	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
237	73	EXT - LOWER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
238	73	EXT - LOWER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
239	73	EXT - UPPER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
240	73	EXT - UPPER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
241	73	EXT - LOWER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
242	73	EXT - LOWER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
243	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	C	INTACT	WHITE	NEGATIVE	0.00	0.02
244	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
245	73	EXT - UPPER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
246	73	EXT - UPPER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
247	73	EXT - UPPER LEVEL	WINDOW	METAL	C	INTACT	WHITE	NEGATIVE	0.01	0.02
248	73	EXT - UPPER LEVEL	WINDOW	METAL	C	INTACT	WHITE	NEGATIVE	0.01	0.03
249	73	EXT - LOWER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
250	73	EXT - LOWER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
251	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
252	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
253	73	EXT - UPPER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
254	73	EXT - UPPER LEVEL	WINDOW - CASING	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
255	73	EXT - UPPER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
256	73	EXT - UPPER LEVEL	WINDOW	METAL	C	PEELING	WHITE	NEGATIVE	0.00	0.02
257	73	EXT - UPPER LEVEL	WINDOW	METAL	D	PEELING	WHITE	NEGATIVE	0.00	0.02
258	73	EXT - UPPER LEVEL	WINDOW	METAL	D	PEELING	WHITE	NEGATIVE	0.00	0.02

<LOD = Less than Limit of Detection
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*= Denotes ceiling/floor sample locations

Table 2
Summary of XRF Survey
Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm²)	PBC ERROR (mg/cm²)
259	73	EXT - UPPER LEVEL	WINDOW	METAL	D	PEELING	WHITE	NEGATIVE	0.00	0.02
260	73	EXT - UPPER LEVEL	WINDOW	METAL	D	PEELING	WHITE	NEGATIVE	0.01	0.04
261	73	EXT - UPPER LEVEL	WINDOW	METAL	D	PEELING	WHITE	NEGATIVE	0.00	0.02
262	73	EXT - UPPER LEVEL	WINDOW	METAL	D	PEELING	WHITE	NEGATIVE	0.00	0.02
263	73	EXT - LOWER LEVEL	WINDOW - CASING	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
264	73	EXT - LOWER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
265	73	EXT - LOWER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
266	73	EXT - LOWER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
267	73	EXT - LOWER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
268	73	EXT - LOWER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
269	73	EXT - UPPER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
270	73	EXT - UPPER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
271	73	EXT - UPPER LEVEL	WINDOW	METAL	A	PEELING	WHITE	NEGATIVE	0.00	0.02
272			CALIBRATE					POSITIVE	1.10	0.10
273			CALIBRATE					POSITIVE	1.00	0.10
274			CALIBRATE					POSITIVE	1.00	0.10
275			CALIBRATE					NEGATIVE	0.00	0.02
276			CALIBRATE					NEGATIVE	0.00	0.02
277			CALIBRATE					NEGATIVE	0.00	0.02
278			SHUTTER CAL						2.43	0.00
279			CALIBRATE					NEGATIVE	0.90	0.10
280			CALIBRATE					POSITIVE	1.00	0.10
281			CALIBRATE					POSITIVE	1.00	0.10
282			CALIBRATE					NEGATIVE	0.00	0.02
283			CALIBRATE					NEGATIVE	0.00	0.02
284			CALIBRATE					NEGATIVE	0.01	0.05
285	40	FIRST FLOOR INT	BURGLAR BARS	METAL	D	INTACT	WHITE	NEGATIVE	0.00	0.02
286	40	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	D	PEELING	WHITE	NULL	1.10	0.40
287	40	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	POSITIVE	1.50	0.40
288	40	FIRST FLOOR INT	WINDOW - MUNTION	WOOD	D	PEELING	WHITE	NEGATIVE	0.70	0.20
289	40	FIRST FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.01	0.02
290	40	FIRST FLOOR INT	WINDOW - CASING	WOOD	C	PEELING	WHITE	POSITIVE	10.80	1.40
291	40	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	C	INTACT	WHITE	NEGATIVE	0.50	0.30
292	40	FIRST FLOOR INT	WINDOW - SASH	WOOD	C	INTACT	WHITE	POSITIVE	3.20	0.40
293	40	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.30	0.19
294	40	FIRST FLOOR INT	WINDOW - SASH	WOOD	B	INTACT	WHITE	POSITIVE	2.30	0.60
295	40	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	11.10	1.20
296	40	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	A	PEELING	WHITE	NEGATIVE	0.00	0.02
297	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.01	0.05
298	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	A	PEELING	BLUE	POSITIVE	20.70	4.00
299	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	A	INTACT	BLUE	POSITIVE	10.90	1.30
300	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	A	INTACT	BLUE	POSITIVE	4.40	1.00
301	40	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	A	INTACT	BLUE	POSITIVE	11.30	2.80

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Summary of XRF Survey
Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
302	40	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	BLUE	NEGATIVE	0.00	0.02
303	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	BLUE	NEGATIVE	0.00	0.02
304	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	PEELING	BLUE	NEGATIVE	0.28	0.11
305	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	BLUE	POSITIVE	16.70	3.50
306	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
307	40	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NULL	0.00	0.03
308	40	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
309	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	BLUE	POSITIVE	13.30	6.80
310	40	SECOND FLOOR INT	WINDOW - MUNTION	WOOD	D	INTACT	BLUE	NEGATIVE	0.40	0.10
311	40	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	BLUE	NEGATIVE	0.30	0.14
312	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	BLUE	POSITIVE	21.00	3.60
313	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	C	INTACT	WHITE	POSITIVE	29.60	4.10
314	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	C	PEELING	GREEN	POSITIVE	12.20	3.40
315	40	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	C	INTACT	GREEN	NEGATIVE	0.30	0.26
316	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	C	PEELING	BLUE	POSITIVE	7.30	1.10
317	40	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	C	INTACT	BLUE	POSITIVE	2.40	0.50
318	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	C	PEELING	WHITE	POSITIVE	19.70	3.10
319	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	B	PEELING	BLUE	POSITIVE	2.30	0.60
320	40	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	B	INTACT	BLUE	POSITIVE	1.70	0.40
321	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	B	PEELING	BLUE	POSITIVE	8.00	2.20
322	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	BLUE	POSITIVE	11.90	3.10
323	40	SECOND FLOOR INT	WINDOW - SASH	WOOD	B	PEELING	BLUE	POSITIVE	7.90	2.30
324	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	B	PEELING	WHITE	NEGATIVE	0.02	0.08
325	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	C	INTACT	WHITE	POSITIVE	15.50	3.20
326	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	C	INTACT	WHITE	NEGATIVE	0.00	0.02
327	40	SECOND FLOOR INT	WINDOW - SASH	WOOD	C	INTACT	WHITE	NULL	1.10	0.10
328	40	SECOND FLOOR INT	WINDOW - SASH	WOOD	C	INTACT	WHITE	POSITIVE	1.20	0.10
329	40	SECOND FLOOR INT	WINDOW - CASING	WOOD	A	INTACT	WHITE	POSITIVE	20.10	3.60
330	40	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.90	0.10
331	40	SECOND FLOOR INT	WINDOW - SASH	WOOD	A	INTACT	WHITE	POSITIVE	11.30	5.80
332	38	FIRST FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
333	38	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
334	38	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.30	0.24
335	38	FIRST FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.22	0.08
336	38	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	B	PEELING	WHITE	NEGATIVE	0.00	0.02
337	38	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
338	38	FIRST FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
339	38	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
340	38	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.70	0.20
341	38	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	4.00	1.10
342	38	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
343	38	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
344	38	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02

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NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
345	38	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
346	38	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.03	0.05
347	38	FIRST FLOOR EXT	WINDOW - CASING	WOOD	D	PEELING	WHITE	NEGATIVE	0.50	0.30
348	38	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	D	PEELING	WHITE	NEGATIVE	0.00	0.02
349	38	FIRST FLOOR EXT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.01	0.03
350	38	FIRST FLOOR EXT	WINDOW - CASING	WOOD	A	INTACT	WHITE	POSITIVE	7.10	2.30
351	38	FIRST FLOOR EXT	WINDOW - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02
352	38	FIRST FLOOR EXT	WINDOW - LOWER SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.01	0.05
353	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
354	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
355	38	SECOND FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.28	0.29
356	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	3.20	0.40
357	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	B	PEELING	WHITE	NEGATIVE	0.01	0.05
358	38	SECOND FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	PEELING	WHITE	NEGATIVE	0.00	0.02
359	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	B	PEELING	WHITE	NEGATIVE	0.40	0.20
360	38	SECOND FLOOR EXT	WINDOW - UPPER SASH	WOOD	B	PEELING	WHITE	NEGATIVE	0.05	0.17
361	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
362	38	SECOND FLOOR EXT	WINDOW - UPPER SASH	WOOD	B	PEELING	WHITE	NEGATIVE	0.01	0.02
363	38	SECOND FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
364	38	SECOND FLOOR EXT	WINDOW - SILL	WOOD	B	INTACT	WHITE	NEGATIVE	0.70	0.20
365	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	B	INTACT	WHITE	NEGATIVE	0.80	0.10
366	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	B	PEELING	WHITE	POSITIVE	2.10	0.70
367	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	B	PEELING	WHITE	NEGATIVE	0.02	0.05
368	38	SECOND FLOOR EXT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.01	0.02
369	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	D	PEELING	WHITE	NEGATIVE	0.01	0.02
370	38	SECOND FLOOR EXT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.01	0.03
371	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.06	0.12
372	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.06	0.06
373	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	D	PEELING	WHITE	NEGATIVE	0.01	0.02
374	38	SECOND FLOOR EXT	WINDOW - LOWER SASH	WOOD	D	PEELING	WHITE	NEGATIVE	0.00	0.02
375	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	D	PEELING	WHITE	NEGATIVE	0.00	0.02
376	38	SECOND FLOOR EXT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
377	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.50	0.20
378	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	A	INTACT	WHITE	POSITIVE	6.00	2.00
379	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	A	PEELING	WHITE	NEGATIVE	0.00	0.02
380	38	SECOND FLOOR EXT	WINDOW - UPPER SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02
381	38	SECOND FLOOR EXT	WINDOW - LOWER SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.01	0.03
382	38	SECOND FLOOR EXT	WINDOW - MUNTIN	WOOD	A	PEELING	WHITE	NEGATIVE	0.00	0.02
383	38	SECOND FLOOR EXT	WINDOW - CASING	WOOD	A	INTACT	WHITE	POSITIVE	12.60	3.20
384			CALIBRATE					NULL	1.00	0.10
385			CALIBRATE					NULL	1.00	0.10
386			CALIBRATE					NULL	1.00	0.20
387			CALIBRATE					POSITIVE	1.10	0.10

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Buildings 38, 40, 73, 223, 606, and 627
NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
388			CALIBRATE					POSITIVE	1.10	0.10
389			CALIBRATE					POSITIVE	1.00	0.10
390			CALIBRATE					NEGATIVE	0.00	0.02
391			CALIBRATE					NEGATIVE	0.00	0.02
392			CALIBRATE					NEGATIVE	0.00	0.02
393			SHUTTER CAL						2.51	0.00
394			CALIBRATE					POSITIVE	1.10	0.10
395			CALIBRATE					POSITIVE	1.10	0.10
396			CALIBRATE					POSITIVE	1.00	0.10
397			CALIBRATE					NEGATIVE	0.00	0.02
398			CALIBRATE					NEGATIVE	0.00	0.02
399			CALIBRATE					NEGATIVE	0.00	0.02
400	38	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
401	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
402	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	1.70	0.30
403	38	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
404	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
405	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	15.70	4.50
406	38	FIRST FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
407	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.01	0.03
408	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
409	38	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
410	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
411	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
412	38	FIRST FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
413	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
414	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	2.00	0.60
415	38	FIRST FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.01	0.03
416	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.04	0.11
417	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
418	38	FIRST FLOOR INT	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
419	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
420	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	4.60	2.10
421	38	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
422	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
423	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	1.60	0.20
424	38	FIRST FLOOR INT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.02	0.07
425	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
426	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	1.80	0.50
427	38	FIRST FLOOR INT	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
428	38	FIRST FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
429	38	FIRST FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	16.30	4.80
430	38	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02

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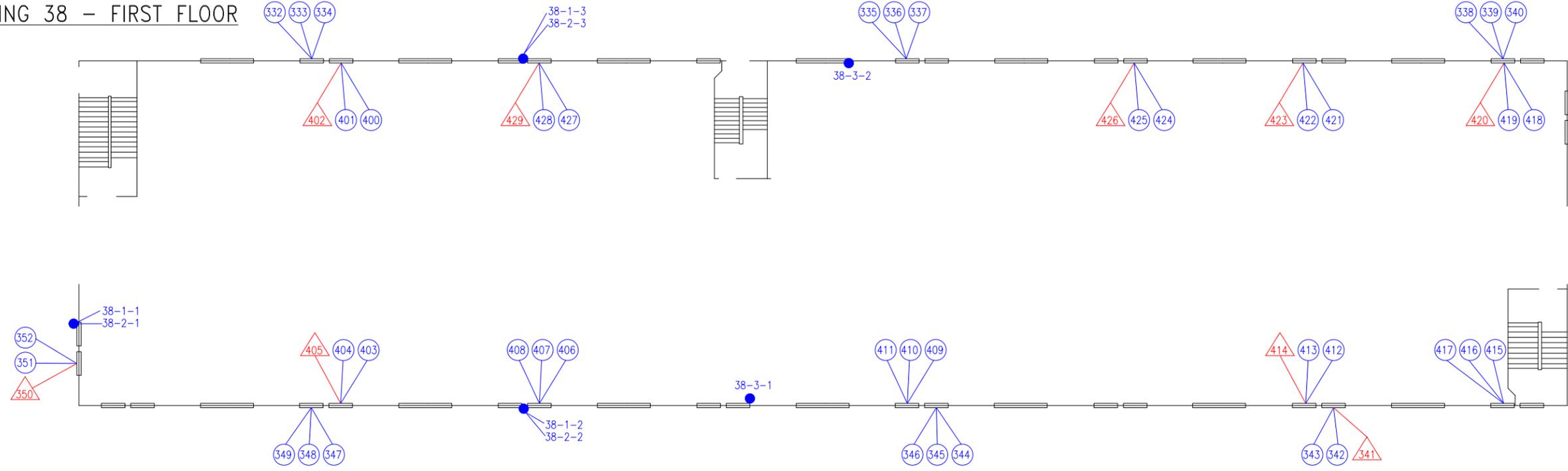
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NAS Pensacola
Pensacola, Escambia County, Florida

XRF NO.	BUILDING	LOCATION	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	RESULT	PBC (mg/cm ²)	PBC ERROR (mg/cm ²)
431	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02
432	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	A	INTACT	WHITE	POSITIVE	15.90	1.70
433	38	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02
434	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	A	INTACT	WHITE	NEGATIVE	0.00	0.02
435	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	A	INTACT	WHITE	POSITIVE	15.50	3.50
436	38	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
437	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
438	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	1.80	0.30
439	38	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
440	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
441	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	1.30	0.20
442	38	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
443	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.03
444	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	2.00	0.60
445	38	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
446	38	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
447	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
448	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	11.80	3.40
449	38	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
450	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
451	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	6.00	2.00
452	38	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
453	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
454	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	6.70	2.20
455	38	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	B	INTACT	WHITE	NEGATIVE	0.01	0.05
456	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	B	INTACT	WHITE	NEGATIVE	0.00	0.02
457	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	B	INTACT	WHITE	POSITIVE	2.10	0.60
458	38	SECOND FLOOR INT	WINDOW - UPPER SASH	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
459	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	D	INTACT	WHITE	NEGATIVE	0.00	0.02
460	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	D	INTACT	WHITE	POSITIVE	2.40	1.10
461	38	SECOND FLOOR INT	WINDOW - LOWER SASH	WOOD	C	INTACT	WHITE	NEGATIVE	0.00	0.02
462	38	SECOND FLOOR INT	WINDOW - MUNTIN	WOOD	C	INTACT	WHITE	NEGATIVE	0.00	0.02
463	38	SECOND FLOOR INT	WINDOW - CASING	WOOD	C	INTACT	WHITE	POSITIVE	5.40	1.70
464			CALIBRATE					POSITIVE	1.00	0.10
465			CALIBRATE					POSITIVE	1.10	0.10
466			CALIBRATE					POSITIVE	1.20	0.10
467			CALIBRATE					NEGATIVE	0.00	0.02
468			CALIBRATE					NEGATIVE	0.00	0.02
469			CALIBRATE					NEGATIVE	0.00	0.02

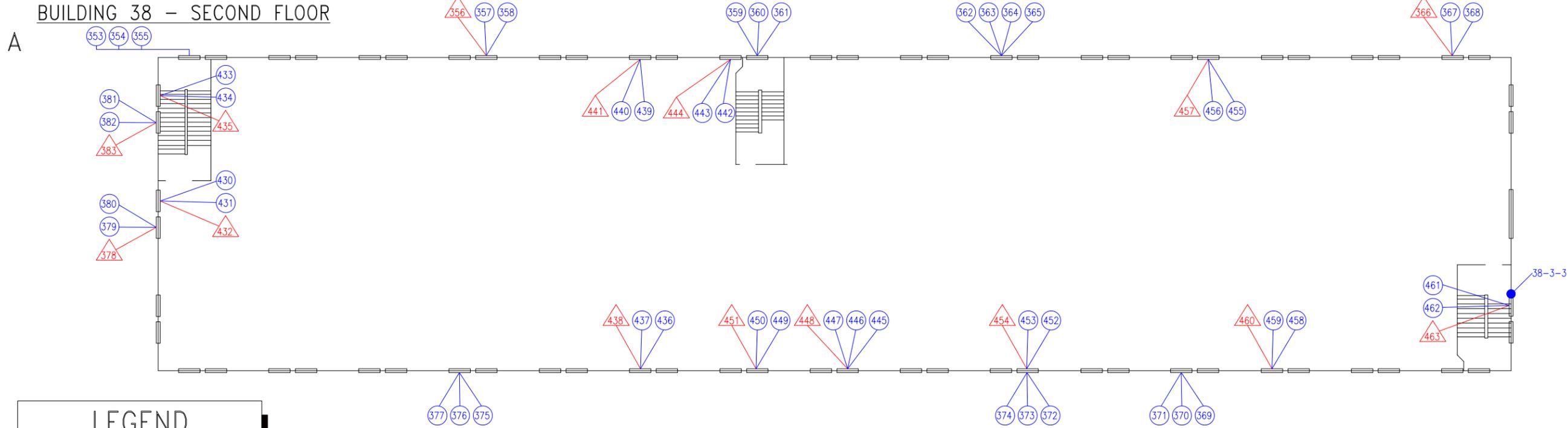
<LOD = Less than Limit of Detection
Null = Inconclusive XRF Reading
*= Denotes ceiling/floor sample locations

FIGURES

BUILDING 38 - FIRST FLOOR

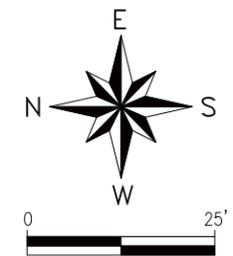


BUILDING 38 - SECOND FLOOR



LEGEND

- A ARBITRARY SIDE DESIGNATION
- ⊖ NEGATIVE XRF SAMPLE LOCATION
- ⊕ POSITIVE XRF SAMPLE LOCATION
- ⊘ NULL XRF SAMPLE LOCATION
- NEGATIVE ASBESTOS SAMPLE LOCATION
- ▲ POSITIVE ASBESTOS SAMPLE LOCATION



NO.	REVISION	BY	DATE

XRF AND HOMOGENEOUS AREA
SAMPLE LOCATIONS

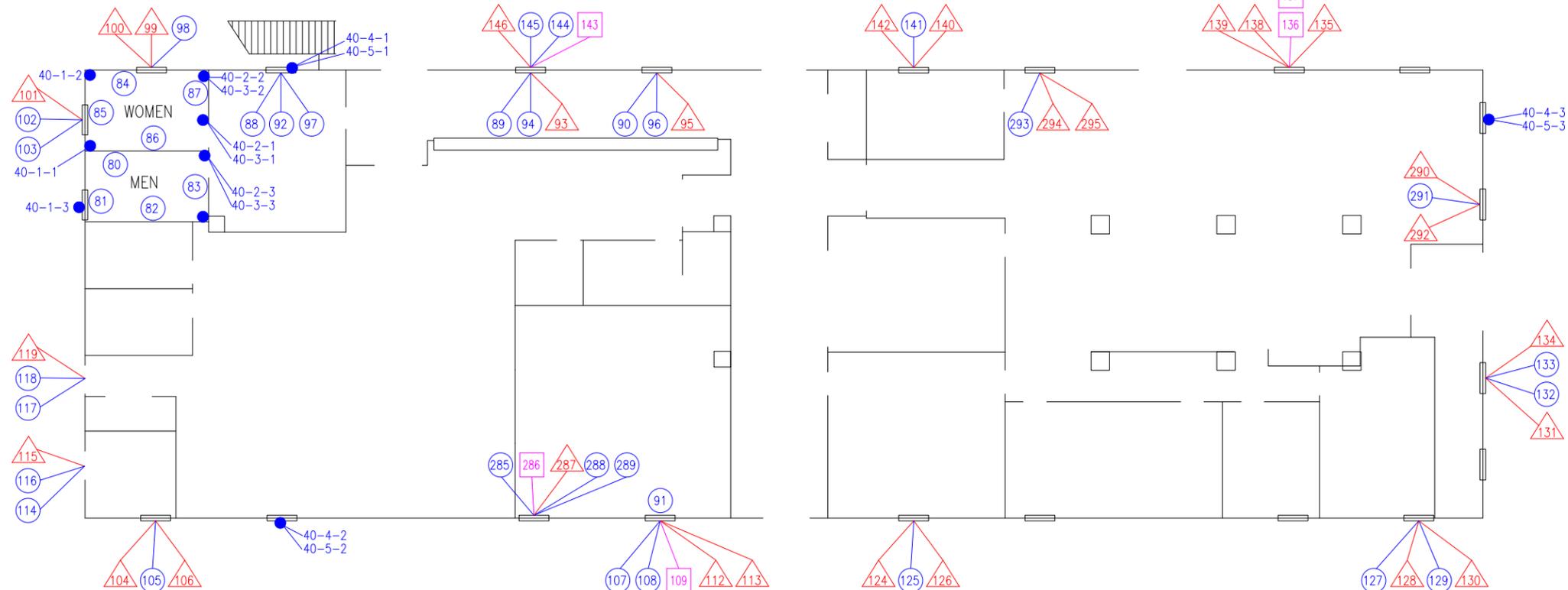
BUILDING 38
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA

AEROSTAR
ENVIRONMENTAL SERVICES, INC.

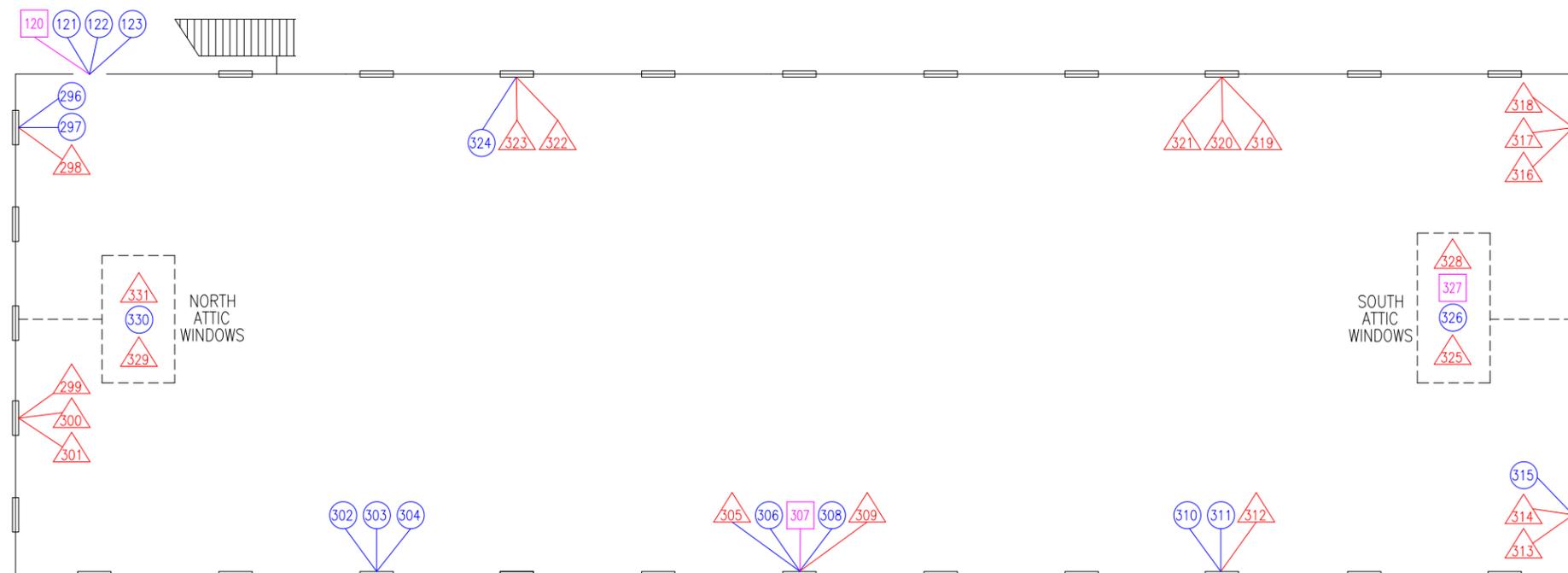
DRAWN BY: S. STUART	CHECKED BY: T. RATANNAKAY	PROJECT NO.: 0411-525-17
PROJECT MANAGER: T. RATANNAKAY	DATE: NOVEMBER 2011	SCALE: 1" = 25'-0"

FIGURE 1

BUILDING 40 - FIRST FLOOR

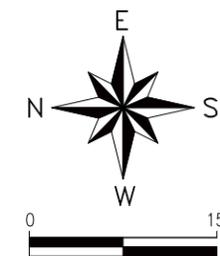


BUILDING 40 - SECOND FLOOR



LEGEND

- A ARBITRARY SIDE DESIGNATION
- # NEGATIVE XRF SAMPLE LOCATION
- ▲ POSITIVE XRF SAMPLE LOCATION
- NULL XRF SAMPLE LOCATION
- NEGATIVE ASBESTOS SAMPLE LOCATION
- ▲ POSITIVE ASBESTOS SAMPLE LOCATION



XRF AND HOMOGENEOUS AREA SAMPLE LOCATIONS		BUILDING 40 NAS PENSACOLA PENSACOLA, ESCAMBIA COUNTY, FLORIDA	
AEROSTAR ENVIRONMENTAL SERVICES, INC.		CHECKED BY: T. RATANNAKAY	PROJECT NO.: 0411-525-17
DRAWN BY: S. STUART		DATE: NOVEMBER 2011	SCALE: 1" = 15'-0"
PROJECT MANAGER: T. RATANNAKAY		REVISION	BY
		NO.	DATE

FIGURE 2

BUILDING 73

A

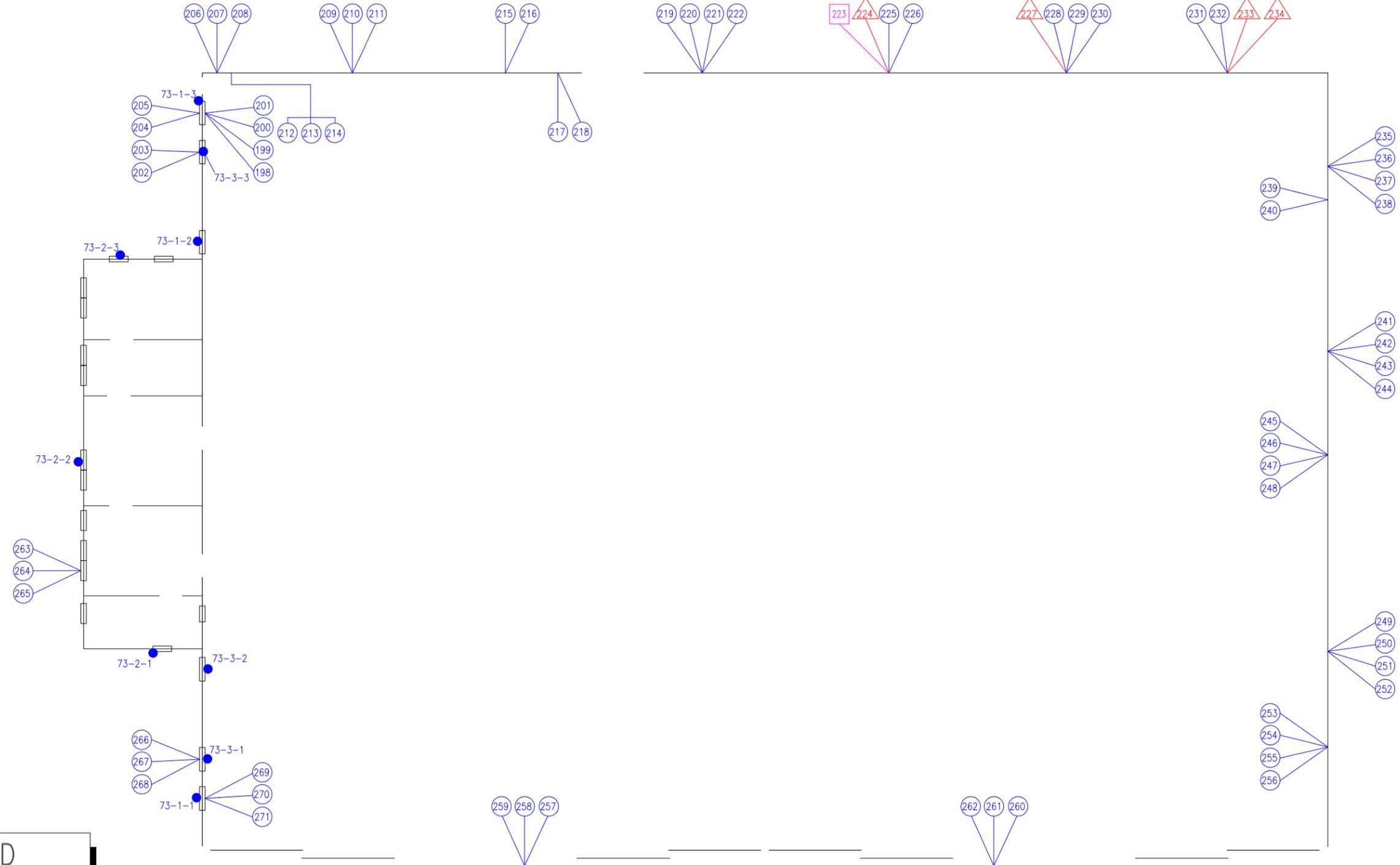
B

C

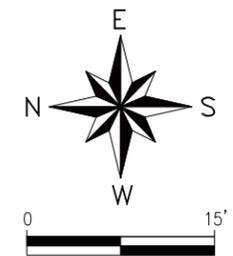
D

LEGEND

- A ARBITRARY SIDE DESIGNATION
- # NEGATIVE XRF SAMPLE LOCATION
- ▲ POSITIVE XRF SAMPLE LOCATION
- NULL XRF SAMPLE LOCATION
- NEGATIVE ASBESTOS SAMPLE LOCATION
- ▲ POSITIVE ASBESTOS SAMPLE LOCATION

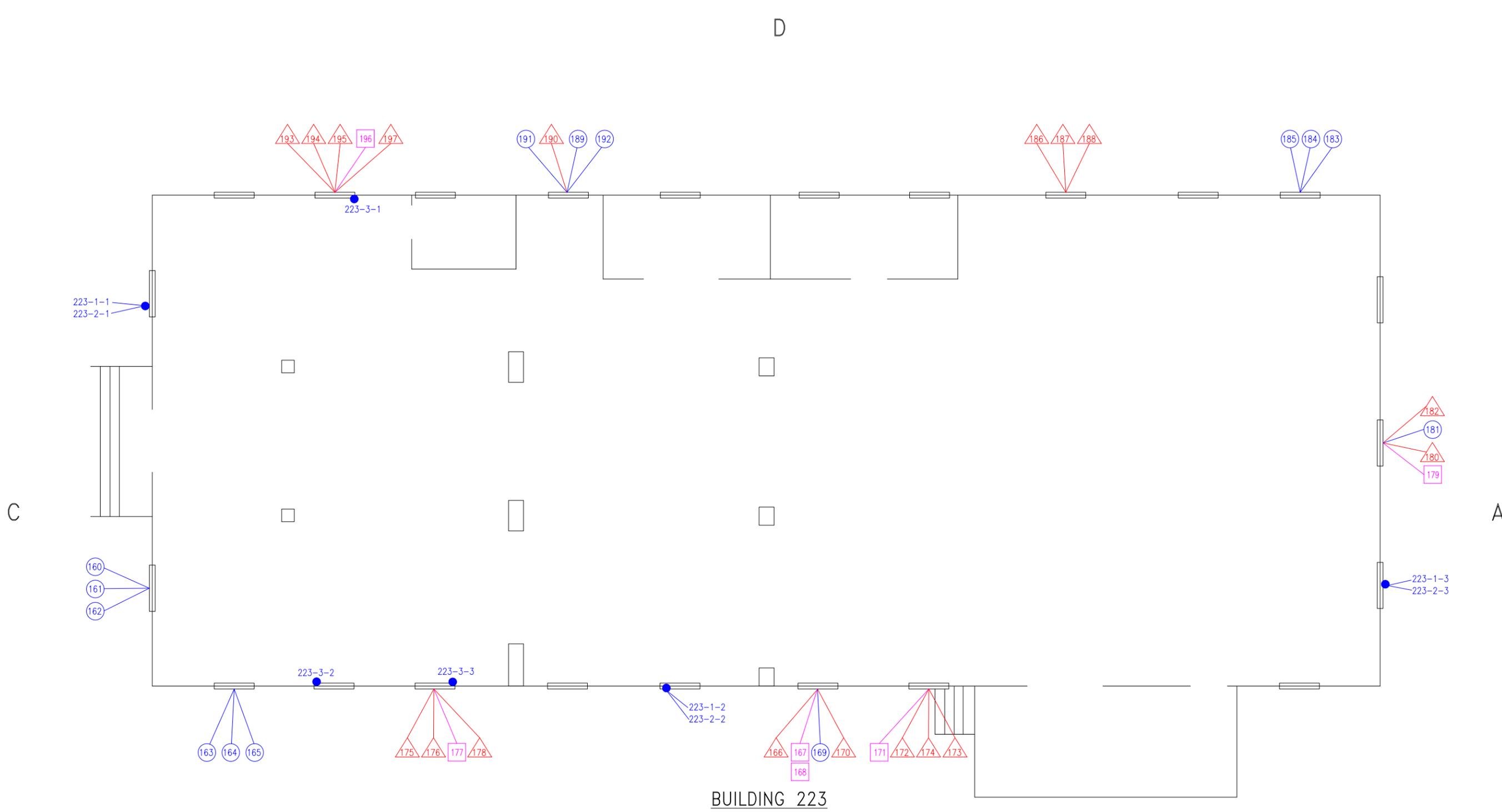


NOTE: XRF SAMPLE LOCATIONS SHOWN WITHIN THE BUILDING OUTLINE ARE UPPER LEVEL WINDOWS UNLESS OTHERWISE NOTED. XRF SAMPLE LOCATIONS SHOWN OUTSIDE THE BUILDING OUTLINE ARE LOWER LEVEL WINDOWS.



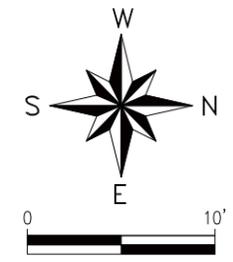
AEROSTAR ENVIRONMENTAL SERVICES, INC.		PROJECT NO.: 0411-525-17		DATE: NOVEMBER 2011	
DRAWN BY: S. STUART		CHECKED BY: T. RATANNAKAY		SCALE: 1" = 15'-0"	
PROJECT MANAGER: T. RATANNAKAY		NO.		REVISION	
XRF AND HOMOGENEOUS AREA SAMPLE LOCATIONS		BUILDING 73 NAS PENSACOLA		BY	
PENSACOLA, ESCAMBIA COUNTY, FLORIDA		NO.		DATE	

FIGURE 3



LEGEND

- A ARBITRARY SIDE DESIGNATION
- ⊖ NEGATIVE XRF SAMPLE LOCATION
- ⊕ POSITIVE XRF SAMPLE LOCATION
- ⊘ NULL XRF SAMPLE LOCATION
- NEGATIVE ASBESTOS SAMPLE LOCATION
- ▲ POSITIVE ASBESTOS SAMPLE LOCATION



XRF AND HOMOGENEOUS AREA SAMPLE LOCATIONS

BUILDING 223
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA

AEROSTAR
ENVIRONMENTAL SERVICES, INC.

DRAWN BY: S. STUART	CHECKED BY: T. RATANNAKAY	PROJECT NO.: 0411-525-17
PROJECT MANAGER: T. RATANNAKAY	DATE: NOVEMBER 2011	SCALE: 1" = 10'-0"

FIGURE 4

BUILDING 606 - FIRST FLOOR

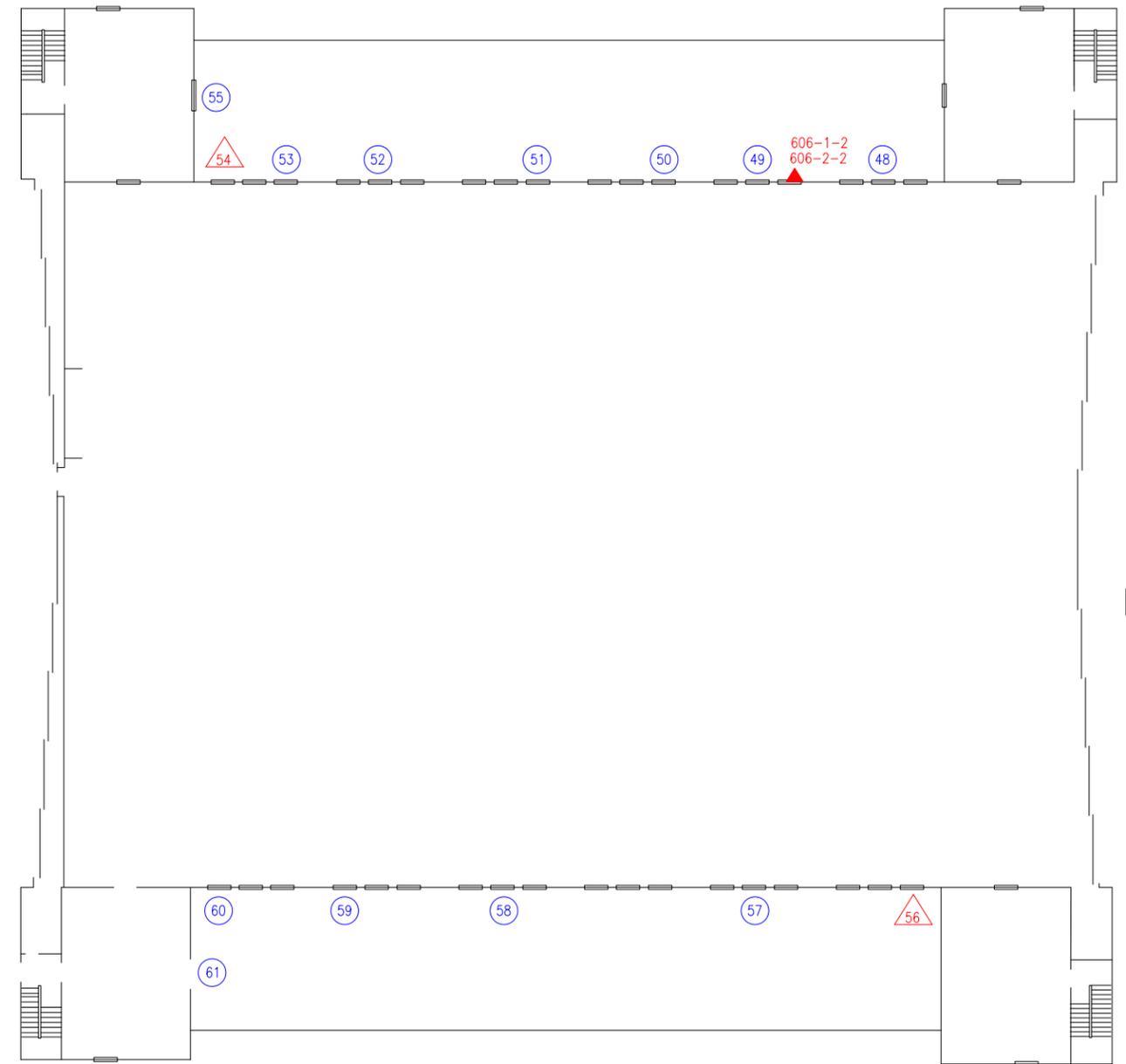


LEGEND

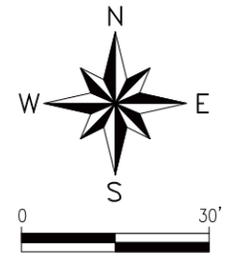
- A ARBITRARY SIDE DESIGNATION
- # NEGATIVE XRF SAMPLE LOCATION
- △ POSITIVE XRF SAMPLE LOCATION
- # NULL XRF SAMPLE LOCATION
- NEGATIVE ASBESTOS SAMPLE LOCATION
- ▲ POSITIVE ASBESTOS SAMPLE LOCATION

A

BUILDING 606 - SECOND FLOOR



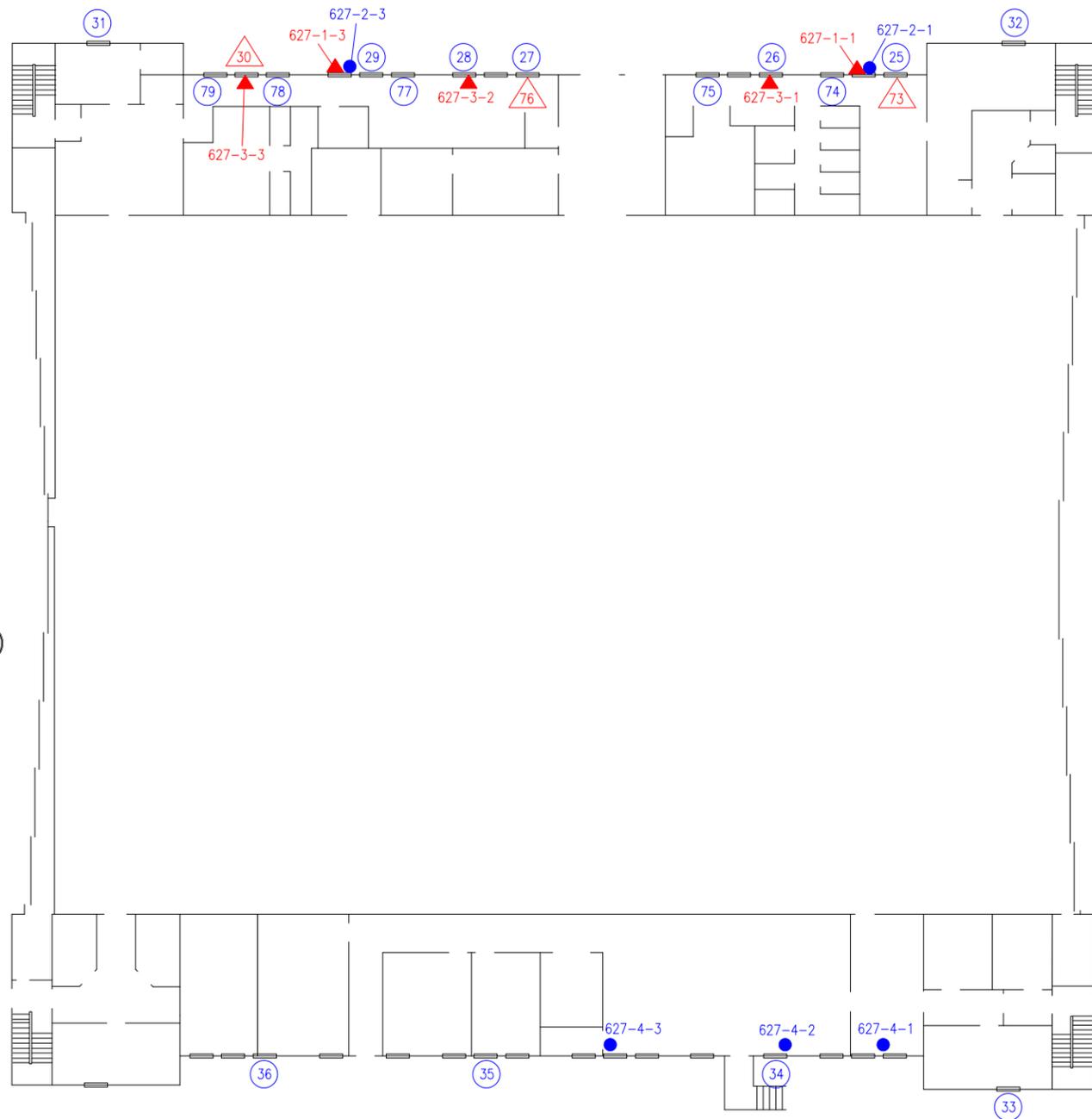
C



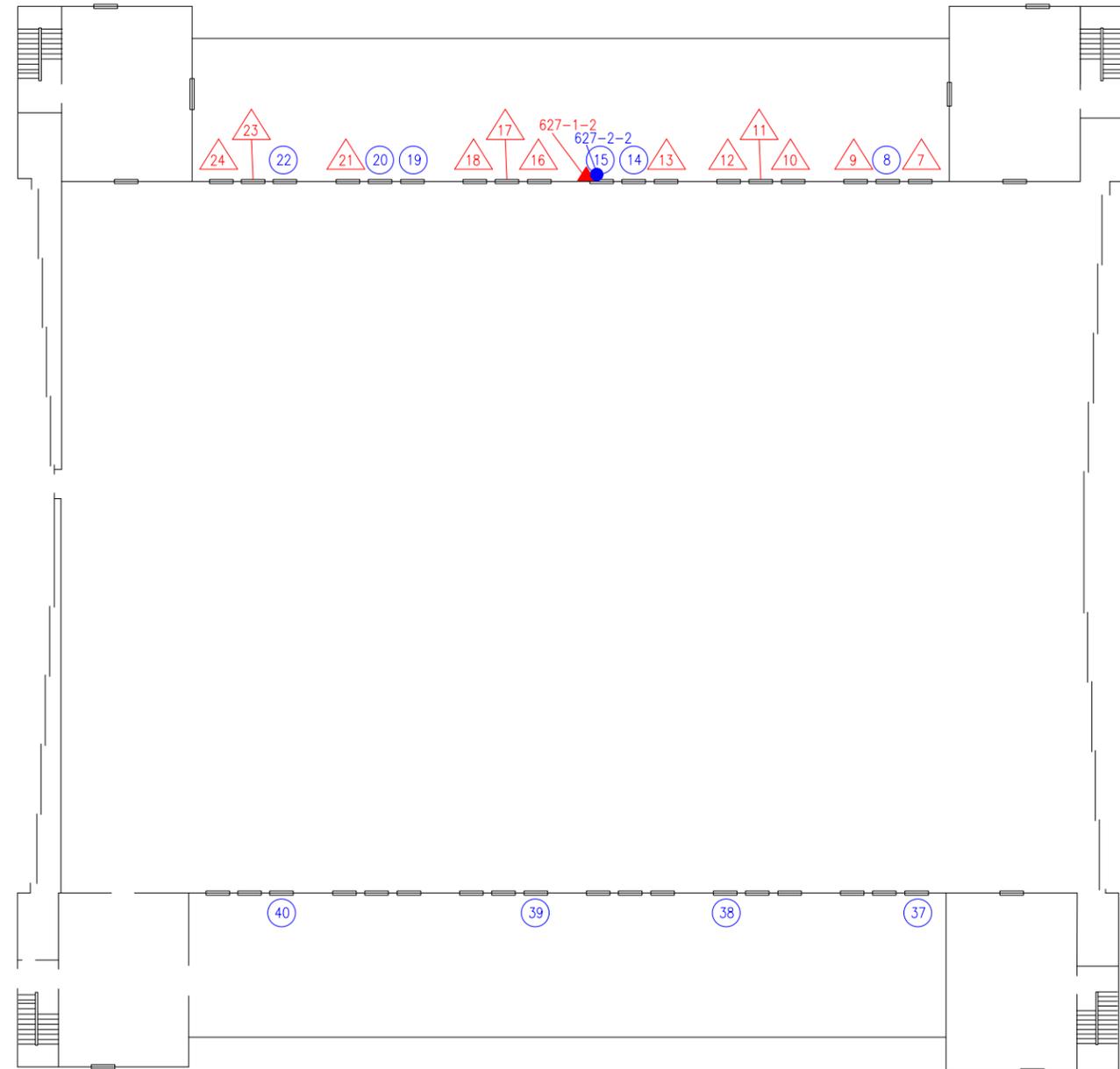
XRF AND HOMOGENEOUS AREA SAMPLE LOCATIONS		PROJECT NO.: 0411-525-17	
BUILDING 606 NAS PENSACOLA		CHECKED BY: T. RATANNAXAY	
PENSACOLA, ESCAMBIA COUNTY, FLORIDA		DATE: NOVEMBER 2011	
AEROSTAR ENVIRONMENTAL SERVICES, INC.		PROJECT MANAGER: T. RATANNAXAY	
DRAWN BY: S. STUART		SCALE: 1" = 30'-0"	
NO.		REVISION	
BY		DATE	

FIGURE 5

BUILDING 627 - FIRST FLOOR

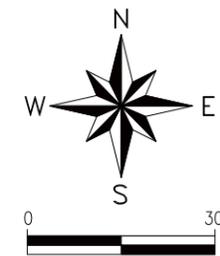


BUILDING 627 - SECOND FLOOR



LEGEND

- A ARBITRARY SIDE DESIGNATION
- # NEGATIVE XRF SAMPLE LOCATION
- # POSITIVE XRF SAMPLE LOCATION
- # NULL XRF SAMPLE LOCATION
- NEGATIVE ASBESTOS SAMPLE LOCATION
- ▲ POSITIVE ASBESTOS SAMPLE LOCATION



A

C

B

NO.	REVISION	BY	DATE

XRF AND HOMOGENEOUS AREA SAMPLE LOCATIONS

BUILDING 627
NAS PENSACOLA
PENSACOLA, ESCAMBIA COUNTY, FLORIDA

AEROSTAR
ENVIRONMENTAL SERVICES, INC.

DRAWN BY: S. STUART	CHECKED BY: T. RATANNAKAY	PROJECT NO.: 0411-525-17
PROJECT MANAGER: T. RATANNAKAY	DATE: NOVEMBER 2011	SCALE: 1" = 30'-0"

FIGURE 6

APPENDIX A
CERTIFICATIONS



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

OCT 05 2009

ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

AEROSTAR ENVIRONMENTAL SERVICES INC
PAUL FITCH
11181 ST JOHNS INDUSTRIAL PKWY N
JACKSONVILLE FL 32246

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers.

License card containing: STATE OF FLORIDA, DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION, AC# 4610943, ZA294, 09/23/09 096001427, ASBESTOS BUSINESS ORGANIZATION, AEROSTAR ENVIRONMENTAL SERVICES, PAUL FITCH, IS LICENSED under the provisions of Ch.469 FS., Expiration date: NOV 30, 2011 L09092303329

DETACH HERE

AC# 4610943

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

SEQ# L09092303329

Table with 3 columns: DATE, BATCH NUMBER, LICENSE NBR. Row 1: 09/23/2009, 096001427, ZA294

The ASBESTOS BUSINESS ORGANIZATION
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2011

AEROSTAR ENVIRONMENTAL SERVICES INC
PAUL FITCH
11200- ST JOHNS INDUSTRIAL PKWY NO
JACKSONVILLE FL 32246

CHARLIE CRIST
GOVERNOR

CHARLES W. DRAGO
SECRETARY

DISPLAY AS REQUIRED BY LAW

United States Environmental Protection Agency

This is to certify that

Aerostar Environmental Services, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

Florida

This certification is valid from the date of issuance and expires July 8, 2014

FL-1654-3

Certification # JUN 27 2011

Issued On



Jeanne M. Gettle, Chief

Pesticides and Toxic Substances Branch





STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

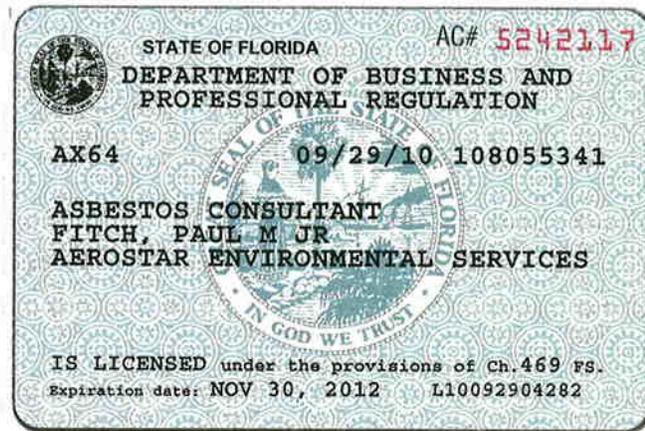
(850) 487-1395

FITCH, PAUL M JR
AEROSTAR ENVIRONMENTAL SERVICES INC
4985 AVENUE D
SAINT AUGUSTINE FL 32095

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers.



DETACH HERE

AC# 5242117

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

SEQ# L10092904282

Table with 3 columns: DATE, BATCH NUMBER, LICENSE NBR. Row 1: 09/29/2010, 108055341, AX64

The ASBESTOS CONSULTANT Named below IS LICENSED Under the provisions of Chapter 469 FS. Expiration date: NOV 30, 2012

FITCH, PAUL M JR
AEROSTAR ENVIRONMENTAL SERVICES INC
4985 AVENUE D
SAINT AUGUSTINE FL 32095

CHARLIE CRIST GOVERNOR

CHARLIE LIEM SECRETARY

DISPLAY AS REQUIRED BY LAW

United States Environmental Protection Agency

This is to certify that

Samuel Houston Stuart

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as a:

Risk Assessor

In the Jurisdiction of:

Florida

This certification is valid from the date of issuance and expires May 12, 2014

FL-R-108987-1

Certification #

MAY - 5 2011

Issued On



Jeanneanne M. Gettle, Chief

Pesticides and Toxic Substances Branch



Asbestos Consulting & Training Systems

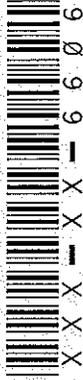
39095.3782CERT/BIR

900 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311

(954) 524-7208

This is to Certify that

Thalass Rattanaxay



X X X - X X - 6 6 0 6

803 Government St., Suite A, Mobile, AL

***has successfully completed an English
Asbestos Building Inspection Refresher***

13-Jan-11

TO

13-Jan-11

Individual above has completed the requisite training for accreditation under TSCA Title II

Meets state requirements of 326 IAC (IDEM) and FL49-0001020/CN-0006273.

NDAAC Provider #451

Trainer(s): A. Lynn Melton

Training Address: 10945 Hwy. 43, Axis, AL, 36505

Successful course completion based on exam score on: 01/13/11

This Certificate Expires:



13-Jan-12

0 1 / 1 3 / 1 2



To Authenticate Certificate
www.seagulltraining.com
1-800-966-9933

Processed By:

[Signature]

James F. Stump, Course Sponsor

Certificate Number..... 1 4 6 6 6 0

Course Number AL1102

UNDER FEDERAL AND CRIMINAL PENALTIES OF LAW FOR MAKING OR
SUBMISSION OF FALSE OR FRAUDULENT STATEMENT OR
REPRESENTATIONS (18 U.S.C. 1001 AND 18 U.S.C. 1014), I
CERTIFY THAT THIS TRAINING PROVIDER'S VERIFICATION IS APPLICABLE
REGARDLESS OF THE TYPE OF TRAINING COURSE. THE COURSE STANDARDS
CONTAINED IN THIS CERTIFICATE ARE SUBJECT TO THE FEDERAL REGISTER
APPROVAL PROCESS FOR LOCAL RECORDS MAINTENANCE.



Protecting Worker Health

The American Industrial Hygiene Association

EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Laboratory ID: 163563

has fulfilled the requirements of the AIHA Laboratory Quality Assurance Programs (LQAP), thereby, conforming to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories*. The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA in the following:

ACCREDITATION PROGRAMS

- INDUSTRIAL HYGIENE Accreditation Expires:
- ENVIRONMENTAL LEAD Accreditation Expires: 09/01/2011
- ENVIRONMENTAL MICROBIOLOGY Accreditation Expires: 09/01/2011
- FOOD Accreditation Expires:

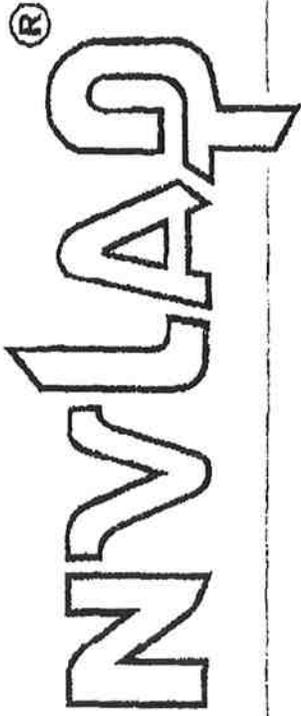
Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with LQAP requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA website for the most current status of the scope of accreditation.

Pamela A. Kostle
Pamela A. Kostle, CIH
Chairperson, Analytical Accreditation Board

Lindsay E. Booher
Lindsay E. Booher, CIH, CSP
President, AIHA

Date Issued: 02/01/2009

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101151-0

EMSL Analytical, Inc.
Orlando, FL

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 Communiqué dated January 2009).



2011-07-01 through 2012-06-30

Effective dates

Jolly A. Bruce
For the National Institute of Standards and Technology

APPENDIX B

LABORATORY ANALYTICAL RESULTS

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION



1. View of exterior window caulk (38-1) and exterior window glazing (38-2) at Building 38.



2. View of ceiling tile (40-1), drywall (40-2), and joint compound (40-3) in the female head at Building 40.



3. View of exterior window caulk (40-4) at Building 40.



4. View of exterior window glaze (40-5) at Building 40.



5. View of the interior of the window at Building 40. No homogeneous areas identified.



6. View of the exterior window caulk (73-1) at Building 73.



7. View of the exterior window caulk (73-2) on the attached office at Building 73.



8. View of the exterior window caulk (223-1) and glaze (223-2) at Building 223.



9. View of the exterior window caulk (606-1) and glaze (606-2) at Building 606.



10. View of the interior window glaze (606-3) at Building 606.



11. View of the exterior window caulk (627-1) and glaze (627-2) at Building 627.



12. View of the interior window caulk (627-4) at Building 627.



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:52 AM
EMSL Order: 341108988

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 606**

EMSL Proj:
Analysis Date: 11/15/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
606-1-1 341108988-0001	- exterior window caulk	White Non-Fibrous Heterogeneous		88% Non-fibrous (other) 10% Ca Carbonate	2% Chrysotile
606-1-2 341108988-0002	- exterior window caulk				Stop Positive (Not Analyzed)
606-1-3 341108988-0003	- exterior window caulk				Stop Positive (Not Analyzed)
606-2-1 341108988-0004	- exterior window glaze	White Non-Fibrous Heterogeneous		88% Non-fibrous (other) 10% Ca Carbonate	2% Chrysotile
606-2-2 341108988-0005	- exterior window glaze				Stop Positive (Not Analyzed)
606-2-3 341108988-0006	- exterior window glaze				Stop Positive (Not Analyzed)
606-3-1 341108988-0007	- interior window glaze	White Non-Fibrous Heterogeneous		78% Non-fibrous (other) 20% Ca Carbonate	2% Chrysotile

Initial report from 11/16/2011 11:59:40

Analyst(s)

Adelmarie Bones (3)



Jonathan Teda, Asbestos Lab 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.
Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxy**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:52 AM
EMSL Order: 341108988

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 606**

EMSL Proj:
Analysis Date: 11/15/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
606-3-2 341108988-0008	- interior window glaze				Stop Positive (Not Analyzed)
606-3-3 341108988-0009	- interior window glaze				Stop Positive (Not Analyzed)

Initial report from 11/16/2011 11:59:40

Analyst(s)

Adelmarie Bones (3)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

341108988

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thalass Rattanaray</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-4662</u>		Email Address: <u>Trattanaray@Aerostar.net</u>	
Project Name/Number: <u>Building 606 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)			
Asbestos			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers \geq 10 μ m <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	
		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:	
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> Non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B		ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9		Other: <input type="checkbox"/>	
Microbiology			
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>		Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	
**Comments/Special Instructions: <u>Stop on First Positive; 606-TOP by FAA only</u>			
Client Sample #'s: <u>606-1-1 - 606-3-3, TCLP</u>		Total # of Samples: <u>10</u>	
Relinquished (Client): <u>Paul Roberts</u>		Date: <u>10-11</u>	
Received (Lab): <u>B. Disabafino</u>		Date: <u>11-11-11</u>	
		Time: <u>1700</u>	
		Time: <u>10:30am</u>	

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
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Chain of Custody
EMSL Order Number (Lab Use Only):

341108988

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
606-1-1	Exterior Window Caulk	1	11/7/11
606-1-2	Exterior Window Caulk	1	11/7/11
606-1-3	Exterior Window Caulk	1	11/7/11
606-2-1	Exterior Window Glaze	2	11/7/11
606-2-2	Exterior Window Glaze	2	11/7/11
606-2-3	Exterior Window Glaze	2	11/7/11
606-3-1	Interior Window Glaze	3	11/7/11
606-3-2	Interior Window Glaze	3	11/7/11
606-3-3	Interior Window Glaze	3	11/7/11
606-TCLP	Various building material		11/7/11
*Comments/Special Instructions:			
606-TCLP by FAA only			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:46 AM
EMSL Order: 341108987

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 73**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
73-1-1 341108987-0001	- exterior window caulk 1	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
73-1-2 341108987-0002	- exterior window caulk 1	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
73-1-3 341108987-0003	- exterior window caulk 1	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
73-2-1 341108987-0004	- exterior window caulk 2	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
73-2-2 341108987-0005	- exterior window caulk 2	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
73-2-3 341108987-0006	- exterior window caulk 2	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 11/16/2011 12:01:13

Analyst(s)

Adelmarie Bones (6)
Jerry Cherian (3)


Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:46 AM
EMSL Order: 341108987

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 73**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
73-3-1 341108987-0007	- interior window glaze	White Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected
73-3-2 341108987-0008	- interior window glaze	White Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected
73-3-3 341108987-0009	- interior window glaze	White Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected

Initial report from 11/16/2011 12:01:13

Analyst(s)

Adelmarie Bones (6)
Jerry Cherian (3)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL ANALYTICAL, INC.
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Chain of Custody

EMSL Order Number (Lab Use Only):

341108987

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thalas Rattanexay</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>Tattanexay@erostar.net</u>	
Project Name/Number: <u>Building 73 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)			
Asbestos			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu\text{m}$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	
		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:	
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B		ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9			
Microbiology			
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>		Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code:	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	
IAQ Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>			
**Comments/Special Instructions: <u>Stop on First Positive: only 73-TCLP by FAA</u>			
Client Sample #'s		Total # of Samples:	
<u>73-1-1 - 73-3-3 13-TCLP</u>		<u>10</u>	
Relinquished (Client): <u>Thalas Rattanexay</u>		Date: <u>11-10-11 1700</u>	Time: <u>1700</u>
Received (Lab): <u>B. DiSabatino</u>		Date: <u>11-11-11</u>	Time: <u>10:30 am</u>



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Chain of Custody
EMSL Order Number (Lab Use Only):

341108987

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
73-1-1	Exterior Window Caulk 1	1	11/9/11
73-1-2	Exterior Window Caulk 1	1	11/9/11
73-1-3	Exterior Window Caulk 1	1	11/9/11
73-2-1	Exterior Window Caulk 2	2	11/9/11
73-2-2	Exterior Window Caulk 2	2	11/9/11
73-2-3	Exterior Window Caulk 2	2	11/9/11
73-3-1	Interior Window Glaze	3	11/9/11
73-3-2	Interior Window Glaze	3	11/9/11
73-3-3	Interior Window Glaze	3	11/9/11
73-TCLP	Various building materials		11/9/11
*Comments/Special Instructions:			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxy**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:41 AM
EMSL Order: 341108986

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 38**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
38-1-1 341108986-0001	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
38-1-2 341108986-0002	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
38-1-3 341108986-0003	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
38-2-1 341108986-0004	- exterior window glaze	White Non-Fibrous Heterogeneous		80% Non-fibrous (other) 20% Ca Carbonate	None Detected
38-2-2 341108986-0005	- exterior window glaze	White Non-Fibrous Heterogeneous		80% Non-fibrous (other) 20% Ca Carbonate	None Detected
38-2-3 341108986-0006	- exterior window glaze	White Non-Fibrous Heterogeneous		80% Non-fibrous (other) 20% Ca Carbonate	None Detected

Initial report from 11/16/2011 12:01:56

Analyst(s) _____

Adelmarie Bones (6)
Jerry Cherian (3)


Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:41 AM
EMSL Order: 341108986

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 38**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
38-3-1 341108986-0007	- interior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
38-3-2 341108986-0008	- interior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
38-3-3 341108986-0009	- interior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 11/16/2011 12:01:56

Analyst(s)

Adelmarie Bones (6)
Jerry Cherian (3)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thalas Trattanexay</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>Trattanexay@aerostar.net</u>	
Project Name/Number: <u>Buildings 38 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>

Turnaround Time (TAT) Options* - Please Check

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

**For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)*

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers \geq 10 μ m <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)
TEM - Dust		Other:
<input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480		

<p align="center">Lead (Pb)</p> <p>Flame Atomic Absorption</p> <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B <p>Graphite Furnace Atomic Absorption</p> <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	<p align="center">ICP</p> <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C <p>Other: <input type="checkbox"/></p>	<p align="center">Materials Science</p> <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination <p>Other: <input type="checkbox"/></p>
---	--	--

Microbiology

<p>Wipe and Bulk Samples</p> <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i> <p>Water Samples</p> <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	<p>Air Samples</p> <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing <p>Real Time Q-PCR (See Analytical Guide for Code) Code:</p> <p>Legionella</p> <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <p>Other: <input type="checkbox"/></p>	<p align="center">IAQ</p> Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC <p>Other: <input type="checkbox"/></p>
---	---	--

****Comments/Special Instructions:** Stop on First Positive; only 38-TCLP by FAA only

Client Sample #'s: <u>38-1-1 - 38-3-3, TCLP</u>	Total # of Samples: <u>18</u>
Relinquished (Client): <u>Shelby Pottah</u> Date: <u>11-10-11</u>	Time: <u>1700</u>
Received (Lab): <u>B. Disabatino</u> Date: <u>11-11-11</u>	Time: <u>10:30am</u>



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

341108986

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
38-1-1	Exterior Window Caulk	1	11/9/11
38-1-2	Exterior Window Caulk	1	11/9/11
38-1-3	Exterior Window Caulk	1	11/9/11
38-2-1	Exterior Window Glaze	2	11/9/11
38-2-2	Exterior Window Glaze	2	11/9/11
38-2-3	Exterior Window Glaze	2	11/9/11
38-3-1	Interior Window Caulk	3	11/9/11
38-3-2	Interior Window Caulk	3	11/9/11
38-3-3	Interior Window Caulk	3	11/9/11
38-TCLP	Various building materials		11/9/11
*Comments/Special Instructions: <i>only</i> 1 38-TCLP by FAA only			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:31 AM
EMSL Order: 341108985

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 40**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
40-1-1 341108985-0001	- 2'x2' white ACT	Tan Fibrous Heterogeneous	60% Cellulose 10% Glass	15% Non-fibrous (other) 15% Perlite	None Detected
40-1-2 341108985-0002	- 2'x2' white ACT	Tan Fibrous Heterogeneous	60% Cellulose 10% Glass	15% Non-fibrous (other) 15% Perlite	None Detected
40-1-3 341108985-0003	- 2'x2' white ACT	Tan Fibrous Heterogeneous	50% Cellulose 10% Glass	20% Non-fibrous (other) 20% Perlite	None Detected
40-2-1 341108985-0004	- gypsum drywall	White Fibrous Heterogeneous	20% Cellulose	40% Non-fibrous (other) 40% Gypsum	None Detected
40-2-2 341108985-0005	- gypsum drywall	White Fibrous Heterogeneous	20% Cellulose	40% Non-fibrous (other) 40% Gypsum	None Detected
40-2-3 341108985-0006	- gypsum drywall	White Fibrous Heterogeneous	20% Cellulose	40% Non-fibrous (other) 40% Gypsum	None Detected

Initial report from 11/16/2011 13:03:57

Analyst(s)

Adelmarie Bones (10)
Jerry Cherian (5)



Jonathan Teda, Asbestos Lab 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.
Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxy**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:31 AM
EMSL Order: 341108985

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 40**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
40-3-1 <i>341108985-0007</i>	- joint compound	White Non-Fibrous Heterogeneous		80% Non-fibrous (other) 20% Ca Carbonate	None Detected
40-3-2 <i>341108985-0008</i>	- joint compound	White Non-Fibrous Heterogeneous		80% Non-fibrous (other) 20% Ca Carbonate	None Detected
40-3-3 <i>341108985-0009</i>	- joint compound	White Non-Fibrous Heterogeneous		80% Non-fibrous (other) 20% Ca Carbonate	None Detected
40-4-1 <i>341108985-0010</i>	- exterior window caulk	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
40-4-2 <i>341108985-0011</i>	- exterior window caulk	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
40-4-3 <i>341108985-0012</i>	- exterior window caulk	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile

Initial report from 11/16/2011 13:03:57

Analyst(s)

Adelmarie Bones (10)
Jerry Cherian (5)



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or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:31 AM
EMSL Order: 341108985

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 40**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
40-5-1 341108985-0013	- exterior window glaze	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
40-5-2 341108985-0014	- exterior window glaze	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
40-5-3 341108985-0015	- exterior window glaze	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 11/16/2011 13:03:57

Analyst(s)

Adelmarie Bones (10)
Jerry Cherian (5)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL ANALYTICAL, INC.
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Chain of Custody
EMSL Order Number (Lab Use Only):

341108985

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thelma Rattenaxay</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>T.rattenaxay@aerostar.net</u>	
Project Name/Number: <u>Building 40 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>

Turnaround Time (TAT) Options* - Please Check

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

**For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)*

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
--	---	--

Lead (Pb)	Materials Science
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>

Microbiology	IAQ
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i> Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>

****Comments/Special Instructions:** 72 hr TAT Stop on first positive only 40-TCLP by FAA

Client Sample #'s	<u>40-1-1 - 40-5-3, TCLP</u>	Total # of Samples:	<u>16</u>
Relinquished (Client):	<u>Thelma Rattenaxay</u>	Date:	<u>11-10-11</u>
Received (Lab):	<u>B. Disabatino</u>	Date:	<u>11-11-11</u>
		Time:	<u>10:30am</u>



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

341108985

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
40-1-1	2'x2' ACT, White	1	11/7/11
40-1-2	2'x2' ACT, White	1	11/7/11
40-1-3	2'x2' ACT, White	1	11/7/11
40-2-1	Gypsum Drywall	2	11/7/11
40-2-2	Gypsum Drywall	2	11/7/11
40-2-3	Gypsum Drywall	2	11/7/11
40-3-1	Joint Compound	3	11/7/11
40-3-2	Joint Compound	3	11/7/11
40-3-3	Joint Compound	3	11/7/11
40-4-1	Exterior Window Caulk	4	11/7/11
40-4-2	Exterior Window Caulk	4	11/7/11
40-4-3	Exterior Window Caulk	4	11/7/11
40-5-1	Exterior Window Glaze	5	11/7/11
40-5-2	Exterior Window Glaze	5	11/7/11
40-5-3	Exterior Window Glaze	5	11/7/11
40-TCLP	Various building materials		11/7/11
*Comments/Special Instructions: 72-hr TAT ; Stop on 1st positive ; ^{only} 140-TCLP only by FAA			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxy**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:25 AM
EMSL Order: 341108984

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 223**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
223-1-1 341108984-0001	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-1-2 341108984-0002	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-1-3 341108984-0003	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-2-1 341108984-0004	- exterior window glaze	Tan Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected
223-2-2 341108984-0005	- exterior window glaze	Tan Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected
223-2-3 341108984-0006	- exterior window glaze	Tan Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected

Initial report from 11/16/2011 12:03:11

Analyst(s)

Adelmarie Bones (6)
Jerry Cherian (3)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxy**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:25 AM
EMSL Order: 341108984

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 223**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
223-3-1 341108984-0007	- interior window caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-3-2 341108984-0008	- interior window caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-3-3 341108984-0009	- interior window caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 11/16/2011 12:03:11

Analyst(s)

Adelmarie Bones (6)
Jerry Cherian (3)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

341108984

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thalas Rattanaray</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>Trattanaray@erostar.net</u>	
Project Name/Number: <u>Building 223 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)			
Asbestos			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers \geq 10 μ m <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	
		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:	
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B		ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9		Other: <input type="checkbox"/>	
Microbiology			
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>		Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Real Time Q-PCR (See Analytical Guide for Code) Code: _____ Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	
**Comments/Special Instructions: <u>Stop on first positive.</u>			
Client Sample #'s: <u>223-1-223-3-3, ICP</u>		Total # of Samples: <u>10</u>	
Relinquished (Client): <u>Thalas Rattanaray</u> Date: <u>11-10-11</u>		Time: <u>1700</u>	
Received (Lab): <u>B. Disabo</u> Date: <u>11-11-11</u>		Time: <u>10:30am</u>	



EMSL ANALYTICAL, INC.
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Chain of Custody
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EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
223-1-1	Exterior Window Caulk	1	11/9/11
223-1-2	Exterior Window Caulk	1	11/9/11
223-1-3	Exterior Window Caulk	1	11/9/11
223-2-1	Exterior Window Glaze	2	11/9/11
223-2-2	Exterior Window Glaze	2	11/9/11
223-2-3	Exterior Window Glaze	2	11/9/11
223-3-1	Interior Window Caulk	3	11/9/11
223-3-2	Interior Window Caulk	3	11/9/11
223-3-3	Interior Window Caulk	3	11/9/11
223-TCLP	Various building material		11/9/11
*Comments/Special Instructions: 223-TCLP by # FAA only			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxy**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:25 AM
EMSL Order: 341108984

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 223**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
223-1-1 341108984-0001	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-1-2 341108984-0002	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-1-3 341108984-0003	- exterior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-2-1 341108984-0004	- exterior window glaze	Tan Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected
223-2-2 341108984-0005	- exterior window glaze	Tan Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected
223-2-3 341108984-0006	- exterior window glaze	Tan Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Ca Carbonate	None Detected

Initial report from 11/16/2011 12:03:11

Analyst(s)

Adelmarie Bones (6)
Jerry Cherian (3)

Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:25 AM
EMSL Order: 341108984

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 223**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
223-3-1 341108984-0007	- interior window caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-3-2 341108984-0008	- interior window caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
223-3-3 341108984-0009	- interior window caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 11/16/2011 12:03:11

Analyst(s)

Adelmarie Bones (6)
Jerry Cherian (3)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



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Chain of Custody

EMSL Order Number (Lab Use Only):

341108984

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thalas Rattanaray</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>T.Rattanaray@aerostar.net</u>	
Project Name/Number: <u>Building 223 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)			
Asbestos			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers \geq 10 μ m <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	
		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:	
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B		ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9			
Microbiology			
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>		Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	
IAQ Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>			
**Comments/Special Instructions: <u>Stop on first positive.</u>			
Client Sample #'s <u>223-1-223-3-3, ICP</u>		Total # of Samples: <u>10</u>	
Relinquished (Client): <u>Thalas Rattanaray</u> Date: <u>11-10-11</u>		Time: <u>1700</u>	
Received (Lab): <u>B. Disabo</u> Date: <u>11-11-11</u>		Time: <u>10:30am</u>	



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200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
223-1-1	Exterior Window Caulk	1	11/9/11
223-1-2	Exterior Window Caulk	1	11/9/11
223-1-3	Exterior Window Caulk	1	11/9/11
223-2-1	Exterior Window Glaze	2	11/9/11
223-2-2	Exterior Window Glaze	2	11/9/11
223-2-3	Exterior Window Glaze	2	11/9/11
223-3-1	Interior Window Caulk	3	11/9/11
223-3-2	Interior Window Caulk	3	11/9/11
223-3-3	Interior Window Caulk	3	11/9/11
223-TCLP	Various building material		11/9/11

*Comments/Special Instructions:

223-TCLP by # FAA only

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxy**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:19 AM
EMSL Order: 341108983

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 627**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
627-1-1 341108983-0001	- exterior window caulk	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
627-1-2 341108983-0002	- exterior window caulk	Gray Non-Fibrous Heterogeneous		78% Non-fibrous (other) 20% Ca Carbonate	2% Chrysotile
627-1-3 341108983-0003	- exterior window caulk				Stop Positive (Not Analyzed)
627-2-1 341108983-0004	- exterior window glaze	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
627-2-2 341108983-0005	- exterior window glaze	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
627-2-3 341108983-0006	- exterior window glaze	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 11/16/2011 12:08:08

Analyst(s)

Adelmarie Bones (7)
Jerry Cherian (2)



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0



EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO: 0411-525-17
Received: 11/11/11 11:19 AM
EMSL Order: 341108983

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **bldg 627**

EMSL Proj:
Analysis Date: 11/16/2011

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
627-3-1 341108983-0007	- interior window glaze	Gray Non-Fibrous Heterogeneous		78% Non-fibrous (other) 20% Ca Carbonate	2% Chrysotile
627-3-2 341108983-0008	- interior window glaze				Stop Positive (Not Analyzed)
627-3-3 341108983-0009	- interior window glaze				Stop Positive (Not Analyzed)
627-4-1 341108983-0010	- interior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
627-4-2 341108983-0011	- interior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
627-4-3 341108983-0012	- interior window caulk	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 11/16/2011 12:08:08

Analyst(s)

Adelmarie Bones (7)
Jerry Cherian (2)


Jonathan Teda, Asbestos Lab Manager
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LABORATORY PRODUCTS TRAINING

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Report To (Name): <u>Thalas Rattanaray</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>T.Rattanaray@aerostar.net</u>	
Project Name/Number: <u>Building 627 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input checked="" type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week
*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)			
Asbestos			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	
		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)	
		Other:	
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B		<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9		ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>	
Microbiology			
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>		Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	
**Comments/Special Instructions: <u>Stop on First Positive; only 627-TCLP by FAA</u>			
Client Sample #'s: <u>627-1-1 - 627-4-3, TCLP</u>		Total # of Samples: <u>13</u>	
Relinquished (Client): <u>Shelley R. Taylor</u>		Date: <u>4/10/11</u>	
Received (Lab): <u>B. Disabatin</u>		Date: <u>11/11/11</u>	
		Time: <u>1700</u>	
		Time: <u>10:30 am</u>	

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide
Controlled Document-OneChain-R2-1/12/2010



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

341108983

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
627-1-1	Exterior Window Caulk	1	11/7/11
627-1-2	Exterior Window Caulk	1	11/7/11
627-1-3	Exterior Window Caulk	1	11/7/11
627-2-1	Interior ^(C1) Exterior Window Glaze	2	11/7/11
627-2-2	Exterior Window Glaze	2	11/7/11
627-2-3	Exterior Window Glaze	2	11/7/11
627-3-1	Interior Window Glaze	3	11/7/11
627-3-2	Interior Window Glaze	3	11/7/11
627-3-3	Interior Window Glaze	3	11/7/11
627-4-1	Interior Window Caulk	4	11/7/11
627-4-2	Interior Window Caulk	4	11/7/11
627-4-3	Interior Window Caulk	4	11/7/11
627-TCLP	Various building materials		11/7/11
*Comments/Special Instructions:			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO:
Received: 11/14/11 8:59 AM
EMSL Order: 201113666

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **Building 627 / 0411-525-17**

EMSL Proj:

Test Report: Toxicity Characteristic Leaching Procedure (SW846, 1311/7420)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
627-TCLP	0001	11/7/2011	11/16/2011	<0.40 mg/L
Site: Various Bldg materials				

Initial report from 11/17/2011 11:32:55

Julie Smith - Laboratory Director
NJ-NELAP Accredited:04653
or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
Samples analyzed by EMSL Analytical, Inc. Westmont, NJ NELAP Certifications: NJ 04653, NY 10896, PA 68-00367



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

20113666

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different	
Street: <u>803 Government Street, Suite A</u>		If Bill to is Different note instructions in Comments**	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thalas Rattanaray</u>		Third Party Billing requires written authorization from third party	
Telephone #: <u>251-432-2664</u>		Fax #: <u>251-432-2685</u>	
Project Name/Number: <u>Building 627 / 041-525-17</u>		Email Address: <u>T.Rattanaray@aerostar.net</u>	
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input checked="" type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
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Lead (Pb) Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM8111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>	Materials Science <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
--	--	--

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	IAQ Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input checked="" type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>
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****Comments/Special Instructions:** 72hr TAT Stop on First Positive; only 627-TCLP by FAA

Client Sample #'s: <u>627-1-1-1-627-4-3</u>	TCLP	Total # of Samples: <u>13</u>
Relinquished (Client): <u>Thalas Rattanaray</u>	Date: <u>11/10/11</u>	Time: <u>1700</u>
Received (Lab): <u>only</u>	Date: <u>11/24/11</u>	Time: <u>5:25 PM</u>



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

20113666

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
627-1-1	Exterior Window Caulk	1	11/7/11
627-1-2	Exterior Window Caulk	1	11/7/11
627-1-3	Exterior Window Caulk	1	11/7/11
627-2-1	Interior ⁽ⁱⁿ⁾ Exterior Window Glaze	2	11/7/11
627-2-2	Exterior Window Glaze	2	11/7/11
627-2-3	Exterior Window Glaze	2	11/7/11
627-3-1	Interior Window Glaze	3	11/7/11
627-3-2	Interior Window Glaze	3	11/7/11
627-3-3	Interior Window Glaze	3	11/7/11
627-4-1	Interior Window Caulk	4	11/7/11
627-4-2	Interior Window Caulk	4	11/7/11
627-4-3	Interior Window Caulk	4	11/7/11
1366-627-TCLP	Various building materials		11/7/11
			11 NOV 14 AM 8:59
*Comments/Special Instructions:			RECEIVED EMSL WESTMONT, N.J.

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO:
Received: 11/14/11 9:01 AM
EMSL Order: 201113665

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **Building 38 / 0411-525-17**

EMSL Proj:

Test Report: Toxicity Characteristic Leaching Procedure (SW846, 1311/7420)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
38-TCLP	0001	1/9/2011	11/16/2011	<0.40 mg/L
Site: Various Bldg materilas				

Initial report from 11/17/2011 11:32:26

Julie Smith - Laboratory Director
NJ-NELAP Accredited:04653
or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
Samples analyzed by EMSL Analytical, Inc. Westmont, NJ NELAP Certifications: NJ 04653, NY 10896, PA 68-00367



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

20113665

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note Instructions in Comments**</small>	
Street: <u>903 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thalys Pottanexay</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>T.pottanexay@arostar.net</u>	
Project Name/Number: <u>@ Building 38 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAC TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 188.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP
TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)
	TEM - Dust <input type="checkbox"/> Microvac -- ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	Other:

Lead (Pb)		Materials Science
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>	Other: <input type="checkbox"/>

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungl - Direct Examination <input type="checkbox"/> Mold & Fungl Culture (Genus Only) <input type="checkbox"/> Mold & Fungl Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungl (Spore Trap) <input type="checkbox"/> Mold & Fungl Culture (Genus Only) <input type="checkbox"/> Mold & Fungl (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: _____ Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	IAC
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>

****Comments/Special Instructions:** Stop on First Positive; only 38-TCLP by FAA only

Client Sample #'s: <u>38-11-38-3-3, TCLP</u>	Total # of Samples: <u>10</u>
Relinquished (Client): <u>Thalys Pottanexay</u>	Date: <u>11-10-11</u>
Received (Lab): <u>Indya</u>	Date: <u>11-14-11</u>
	Time: <u>1700</u>
	Time: <u>9:01 AM</u>



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

20113665

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) MA # (Bulk)	Date/Time Sampled
38-1-1	Exterior Window Caulk	1	11/9/11
38-1-2	Exterior Window Caulk	1	11/9/11
38-1-3	Exterior Window Caulk	1	11/9/11
38-2-1	Exterior Window Glaze	2	11/9/11
38-2-2	Exterior Window Glaze	2	11/9/11
38-2-3	Exterior Window Glaze	2	11/9/11
38-3-1	Interior Window Caulk	3	11/9/11
38-3-2	Interior Window Caulk	3	11/9/11
38-3-3	Interior Window Caulk	3	11/9/11
38-TCLP	Various building materials		11/9/11

Block 38

*Comments/Special Instructions:
only
1 38-TCLP by FAA only

RECEIVED
EMSL ANALYTICAL, INC.
CINNAMINSON, NJ
11 NOV 14 AM 9:01

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
Customer PO:
Received: 11/14/11 9:00 AM
EMSL Order: 201113664

Fax: (251) 432-2685 Phone: (251) 432-2664
Project: **Building 606 / 0411-525-17**

EMSL Proj:

Test Report: Toxicity Characteristic Leaching Procedure (SW846, 1311/7420)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
606-TCLP	0001	11/7/2011	11/16/2011	<0.40 mg/L
Site: Various Bldg materials				

Initial report from 11/17/2011 11:32:06

Julie Smith - Laboratory Director
NJ-NELAP Accredited:04653
or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
Samples analyzed by EMSL Analytical, Inc. Westmont, NJ NELAP Certifications: NJ 04653, NY 10896, PA 68-00367



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

2113664

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note Instructions in Comments**</small>	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thomas Rattanaray</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-4662</u>		Email Address: <u>T.Rattanaray@Aerostar.net</u>	
Project Name/Number: <u>Building 606 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TAT's are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input checked="" type="checkbox"/> 2-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
--	---	--

Lead (Pb) Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> Non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> Non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>	Materials Science <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
--	--	--

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i> Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Air Samples <input checked="" type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	IAQ Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>
---	--	--

****Comments/Special Instructions:** Stop on First Positive; 606-TCLP by FAA only

Client Sample #'s: <u>606-1-1 - 606-3-3, TCLP</u>	Total # of Samples: <u>10</u>
Relinquished (Client): <u>Paul Rattanaray</u>	Date: <u>10-11</u> Time: <u>1760</u>
Received (Lab): <u>[Signature]</u>	Date: <u>11/14/11</u> Time: <u>901N</u>



EMSL Analytical, Inc.
 3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
 Customer PO:
 Received: 11/14/11 9:00 AM
 EMSL Order: 201113663

Fax: (251) 432-2685 Phone: (251) 432-2664
 Project: **Building 73 / 0411-525-17**

EMSL Proj:

Test Report: Toxicity Characteristic Leaching Procedure (SW846, 1311/7420)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
73-TCLP	0001	11/9/2011	11/16/2011	<0.40 mg/L
Site: Various Bldg materials				

Initial report from 11/17/2011 11:31:39

Julie Smith - Laboratory Director
 NJ-NELAP Accredited:04653
 or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
 Samples analyzed by EMSL Analytical, Inc. Westmont, NJ NELAP Certifications: NJ 04653, NY 10896, PA 68-00367



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

20113663

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-5675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Theodor Trattanexoy</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>Trattanexoy@erostar.net</u>	
Project Name/Number: <u>Building 73 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Purchase Order: <input type="checkbox"/> U.S. State Samples Taken: <u>FL</u>			

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAC TATs are in Business Days rather than Hours (i.e. 24 Hour - End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP
TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)
TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		Other:

Lead (Pb)		Materials Science
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM8111R or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> Non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> Non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>	<input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing	IAC
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>

****Comments/Special Instructions:** 72 hr TAT Stop on First Positive: only 73-TCLP by FAA

Client Sample #'s: <u>73-1-1 - 73-2-3</u>	TCLP	Total # of Samples: <u>10</u>
Relinquished (Client): <u>Theodor Trattanexoy</u>	Date: <u>11-10-11 1700</u>	Time: <u>1700</u>
Received (Lab): <u>[Signature]</u>	Date: <u>11/14/11</u>	Time: <u>9:45</u>

RECEIVED
EMSL
MONT, NJ
NOV 16 2011 9:00 AM



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

70113663

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
73-1-1	Exterior Window Caulk 1	1	11/9/11
73-1-2	Exterior Window Caulk 1	1	11/9/11
73-1-3	Exterior Window Caulk 1	1	11/9/11
73-2-1	Exterior Window Caulk 2	2	11/9/11
73-2-2	Exterior Window Caulk 2	2	11/9/11
73-2-3	Exterior Window Caulk 2	2	11/9/11
73-3-1	Interior Window Glaze	3	11/9/11
73-3-2	Interior Window Glaze	3	11/9/11
73-3-3	Interior Window Glaze	3	11/9/11
136631 73-TCLP	Various building materials		11/9/11
*Comments/Special Instructions:			

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

RECEIVED
EMSL
WESTMONT, N.J.
NOV 10 2011



EMSL Analytical, Inc.
 3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
 Customer PO:
 Received: 11/14/11 9:00 AM
 EMSL Order: 201113662

Fax: (251) 432-2685 Phone: (251) 432-2664
 Project: **Building 40 / 0411-525-17**

EMSL Proj:

Test Report: Toxicity Characteristic Leaching Procedure (SW846, 1311/7420)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
40-TCLP	0001	11/7/2011	11/16/2011	9.3 mg/L
Site: Various Bldg materials				

Initial report from 11/17/2011 12:22:35

Julie Smith - Laboratory Director
 NJ-NELAP Accredited:04653
 or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
 Samples analyzed by EMSL Analytical, Inc. Westmont, NJ NELAP Certifications: NJ 04653, NY 10896, PA 68-00367



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

20113662

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thomas Ratteraxay</u>		Fax #: <u>251-432-2685</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>T.ratteraxay@aerostarnet</u>	
Project Name/Number: <u>Building 40 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>FL</u>

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAC TAT's are in Business Days rather than hours (i.e. 24 Hour - End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)
TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	Other:
TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		

Lead (Pb)		Materials Science
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>	

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time q-PCR (See Analytical Guide for Code) Code:	IAQ
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	Nuisance Dust NIOSH <input type="checkbox"/> 10500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristoballite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>

****Comments/Special Instructions:**
72 hr TAT Stop on first Positive, only 40-TCLP by FAA

Client Sample #'s: <u>40-1-1 - 40-5-3, TCLP</u>	Total # of Samples: <u>16</u>
Relinquished (Client): <u>[Signature]</u> Date: <u>11-10-11</u>	Time: <u>1700</u>
Received (Lab): <u>[Signature]</u> Date: <u>11-14-11</u>	Time: <u>942</u>



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS ANALYSIS

Chain of Custody
EMSL Order Number (Lab Use Only):

20113662

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Sample #	Sample Description	Volume/Area (Air) HA # (Builc)	Date/Time Sampled
40-1-1	2'x2' ACT, White	1	11/7/11
40-1-2	2'x2' ACT, White	1	11/7/11
40-1-3	2'x2' ACT, White	1	11/7/11
40-2-1	Gypsum Drywall	2	11/7/11
40-2-2	Gypsum Drywall	2	11/7/11
40-2-3	Gypsum Drywall	2	11/7/11
40-3-1	Joint Compound	3	11/7/11
40-3-2	Joint Compound	3	11/7/11
40-3-3	Joint Compound	3	11/7/11
40-4-1	Exterior Window Caulk	4	11/7/11
40-4-2	Exterior Window Caulk	4	11/7/11
40-4-3	Exterior Window Caulk	4	11/7/11
40-5-1	Exterior Window Glaze	5	11/7/11
40-5-2	Exterior Window Glaze	5	11/7/11
40-5-3	Exterior Window Glaze	5	11/7/11
40-TCLP	Various building materials		11/7/11

13662-1

*Comments/Special Instructions:

72-hr TAT ; Stop on 1st positive ; ^{only} 40-TCLP only by EAA

11/10/2011 10:01 AM
11/10/2011 10:01 AM

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.
 3 Cooper St., Westmont, NJ 08108

Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontleadlab@emsl.com

Attn: **Thalas Rattanaxay**
Aerostar Environmental Services, Inc.
803 Government Street
Suite A
Mobile, AL 36602

Customer ID: AERO72
 Customer PO:
 Received: 11/14/11 9:00 AM
 EMSL Order: 201113661

Fax: (251) 432-2685 Phone: (251) 432-2664
 Project: **Building 223 / 0411-525-17**

EMSL Proj:

Test Report: Toxicity Characteristic Leaching Procedure (SW846, 1311/7420)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
223-TCLP Site: Various Bldg materials	0001	11/9/2011	11/16/2011	<0.40 mg/L

Initial report from 11/17/2011 11:29:00

Julie Smith - Laboratory Director
 NJ-NELAP Accredited:04653
 or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
 Samples analyzed by EMSL Analytical, Inc. Westmont, NJ NELAP Certifications: NJ 04653, NY 10896, PA 68-00367



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody EMSL Order Number (Lab Use Only):

20113661

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3676
FAX: (856) 786-5974

Company: <u>Aerostar Environmental Services</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>803 Government Street, Suite A</u>		Third Party Billing requires written authorization from third party	
City: <u>Mobile</u>	State/Province: <u>AL</u>	Zip/Postal Code: <u>36602</u>	Country: <u>US</u>
Report To (Name): <u>Thales Rattanaxay</u>		Fax #: <u>251-432-2085</u>	
Telephone #: <u>251-432-2664</u>		Email Address: <u>T.rattanaxay@aerostar.net</u>	
Project Name/Number: <u>Building 223 / 0411-525-17</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken: <u>AL</u>

Turnaround Time (TAT) Options* - Please Check

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

*For HUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test.
Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour - End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air 4-4.5hr TAT (AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chaffield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)
TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D8480	Other:

Lead (Pb)		Materials Science
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input checked="" type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>	

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time q-PCR (See Analytical Guide for Code) Code: _____ Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	IAQ Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>
---	---	--

****Comments/Special Instructions:** Stop on First Positive

Client Sample #'s: <u>223-1-1, 223-3-3, TCLP</u>	Total # of Samples: <u>10</u>
Relinquished (Client): <u>[Signature]</u>	Date: <u>11-10-11</u> Time: <u>1702</u>
Received (Lab): <u>[Signature]</u>	Date: <u>11-14-11</u> Time: <u>22 49</u>



December 7, 2012

(via email: Jeremy.puzycki@hdrinc.com)

Mr. Jeremy Puzycki, CSI, CCCA, GGP
Architectural Coordinator
HDR Engineering, Inc.
440 South Church Street, Suite 1000
Charlotte, North Carolina 28202

**RE: Limited Asbestos Containing Material Survey Letter of Findings
Building 223
NAS Pensacola
Pensacola, Escambia County, Florida**

Dear Mr. Puzycki:

Aerostar SES LLC (Aerostar) is pleased to present the letter of findings for the limited asbestos survey conducted at the referenced site. On November 7 through 9, 2011, limited sampling was conducted of material which was to be disturbed during renovation activities scheduled for the building. Proposed renovation activities include window glazing repair of approximately 45 linear feet (LF) throughout the building, window framing repair of approximately 65 LF (rails/stiles), and securing of 17 large and 5 small aluminum framed storm windows. Aerostar's findings were reported in the Limited Asbestos Containing Materials (ACM) Survey, Lead-Based Paint (LBP) Survey, and Waste Characterization for Lead of Buildings 38, 40, 73, 223, 606, and 627 report, dated November 30, 2011. Additional sampling of exterior stucco material was requested by HDR Engineering, Inc. to supplement the original report. Aerostar is licensed by the Florida Department of Business and Professional Regulation (DBPR) as an Asbestos Business Organization. A copy of our license is included in Appendix A.

METHODOLOGY

The limited additional asbestos sampling activities at the referenced site were conducted on November 30, 2012, by Mr. Curtis Mills, an Asbestos Hazard Emergency Response Act (AHERA)-certified Asbestos Building Inspector, under the direction of a DBPR-Licensed Asbestos Consultant (LAC). As requested, only exterior stucco finish samples were collected from surfaces which will be disturbed during scheduled renovation activities. The survey resulted in the collection of a total of nine bulk samples of suspect Asbestos Containing Materials (ACM). Samples were submitted to EMSL Laboratories, Inc. (EMSL) located in Orlando, Florida for analysis using the EPA recommended method of Polarized Light Microscopy (PLM) coupled with dispersion staining (Method No. EPA 600/R-93/116, 1993). EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST). A copy of inspector, LAC, and laboratory accreditations are included in Appendix A. Sample locations are shown on Figure 1 – Sample Locations. A photograph of the material is included in Appendix B.

Mr. Jeremy Puzycki
December 7, 2012
Page 2

ANALYTICAL RESULTS

A total of nine samples were collected from the exterior stucco finish. None of the nine samples were found to contain asbestos concentrations greater than 1% by EPA Method 600/R-93/116. Laboratory results and chain-of-custody forms are included in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

Aerostar has completed a limited survey for asbestos in the exterior stucco finish of Building 223, located at located at NAS Pensacola, Pensacola, Escambia County, Florida. Analytical results of the samples revealed that none of the nine samples collected contained asbestos in concentrations >1% by PLM analysis.

Suspect ACMs encountered during renovation/demolition activities that are not identified in this survey and the initial report dated November 2011 should be assumed to contain asbestos or be sampled by an AHERA-certified inspector and analyzed by an accredited laboratory.

Aerostar appreciates the opportunity to provide our asbestos services for this project. If you have any questions or need additional information, please contact us at (904) 565-2820.

Sincerely,

Aerostar SES LLC

Asbestos Consulting License #ZA455

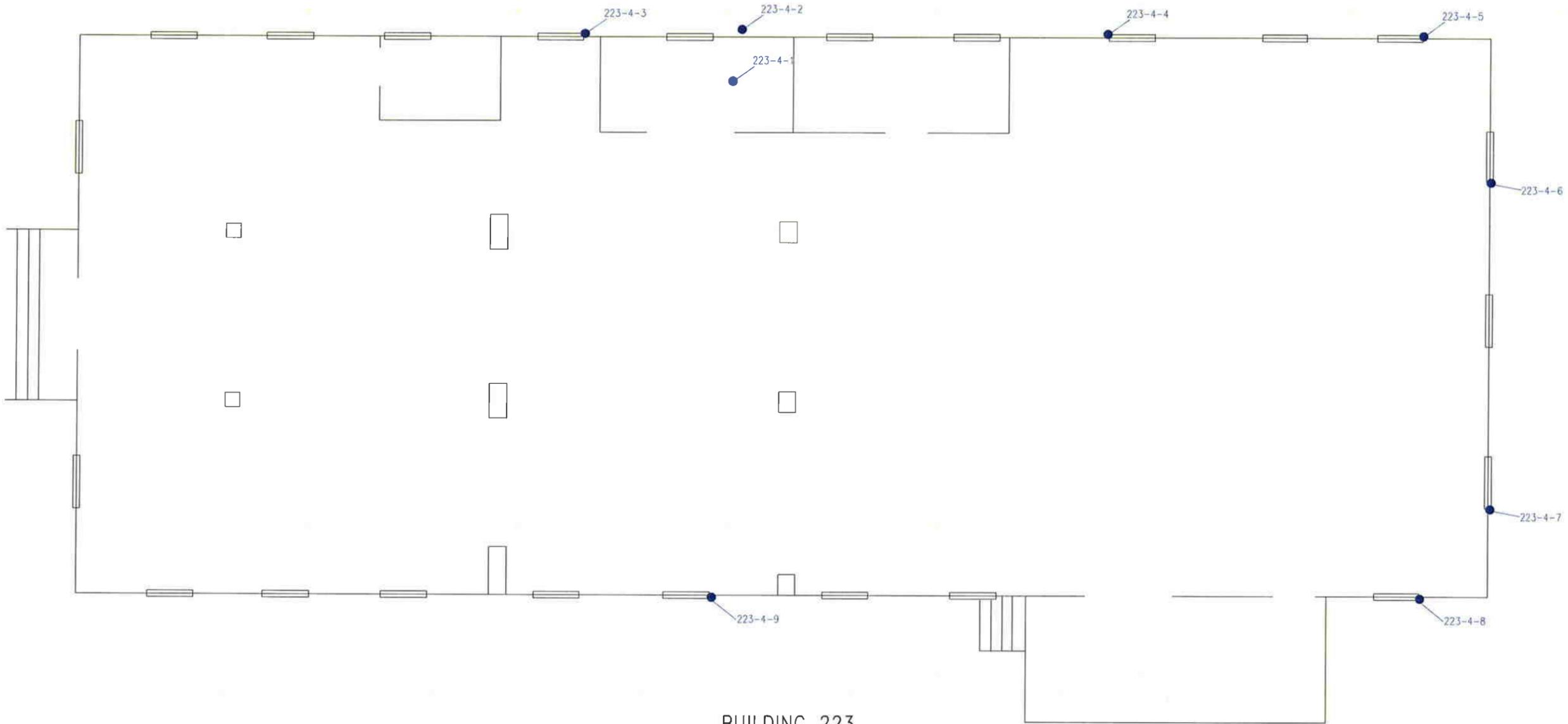


Curtis Mills
AHERA-Certified Asbestos Inspector
No. AIN0312524453



Paul Fitch, P.E., LAC
LAC Florida No. AX64

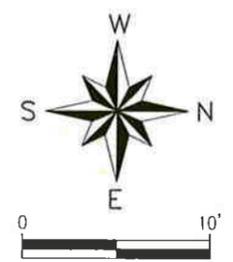
FIGURE



BUILDING 223

LEGEND

- NEGATIVE ASBESTOS SAMPLE LOCATION
- ▲ POSITIVE ASBESTOS SAMPLE LOCATION



		DRAWN BY:	CHECKED BY:	PROJECT NO.:	
		PROJECT MANAGER:	DATE:	0411-525-17	
<p style="text-align: center;">SAMPLE LOCATIONS</p> <p style="text-align: center;">BUILDING 223 NAS PENSACOLA PENSACOLA, ESCAMBIA COUNTY, FLORIDA</p>		NO.		REVISION	BY
		NO.		REVISION	BY
<p style="text-align: center;">FIGURE 1</p>		NO.		REVISION	BY
		NO.		REVISION	BY

**APPENDIX A
CERTIFICATIONS**

safe  state

THE UNIVERSITY OF ALABAMA

has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

For the Asbestos Contractor Discipline

INSPECTOR
Curtis R Mills

Alabama Accreditation Number

AIN0312524453

Certificate Expiration Date

March 22, 2013

This certificate has been issued pursuant to the authority granted to the University of Alabama Safe-State Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.



Executive Director, Division of
Environmental and Industrial Programs



Assistant Director
for Environmental Programs



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

**ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

(850) 487-1395

**FITCH, PAUL M JR
AEROSTAR SES LLC
4985 AVENUE D
SAINT AUGUSTINE FL 32095**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA **AC# 6386765**
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

AX64 09/20/12 128088397

**ASBESTOS CONSULTANT
FITCH, PAUL M JR
AEROSTAR SES LLC**

IS LICENSED under the provisions of Ch.469 FS.
 Expiration date: NOV 30, 2014 L12092004104

DETACH HERE

THIS DOCUMENT HAS A COLORED BACKGROUND • MICROPRINTING • LINEMARK™ PATENTED PAPER

AC#6386765

STATE OF FLORIDA

**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT**

SEQ# L12092004104

DATE	BATCH NUMBER	LICENSE NBR
09/20/2012	128088397	AX64

The ASBESTOS CONSULTANT
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2014.

**FITCH, PAUL M JR
AEROSTAR SES LLC
4985 AVENUE D
SAINT AUGUSTINE FL 32095**

**RICK SCOTT
GOVERNOR**

**KEN LAWSON
SECRETARY**

DISPLAY AS REQUIRED BY LAW



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

AEROSTAR SES LLC
PAUL M FITCH
11181 ST JOHNS INDUSTRIAL PKWY NORTH
JACKSONVILLE FL 32246-7643

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers.



STATE OF FLORIDA AC# 6152249
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ZA455 06/05/12 110386899

ASBESTOS BUSINESS ORGANIZATION
AEROSTAR SES LLC
PAUL M FITCH

IS LICENSED under the provisions of Ch.469 FS.
Expiration date: NOV 30, 2013 L12060500667

DETACH HERE

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AC# 6152249

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

SEQ# L12060500667

Table with 3 columns: DATE, BATCH NUMBER, LICENSE NBR. Row 1: 06/05/2012, 110386899, ZA455

The ASBESTOS BUSINESS ORGANIZATION
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2013

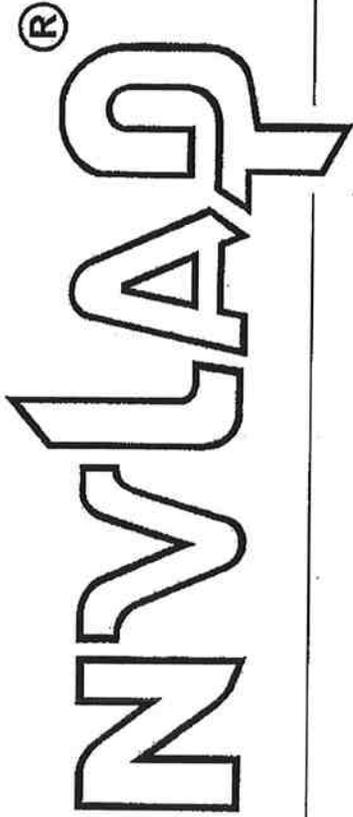
AEROSTAR SES LLC
PAUL M FITCH
11181 ST JOHNS INDUSTRIAL PKWY NORTH
JACKSONVILLE FL 32246-7643

RICK SCOTT
GOVERNOR

KEN LAWSON
SECRETARY

DISPLAY AS REQUIRED BY LAW

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101151-0

EMSL Analytical, Inc.
Orlando, FL

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 Communiqué dated January 2009).*

2012-07-01 through 2013-06-30

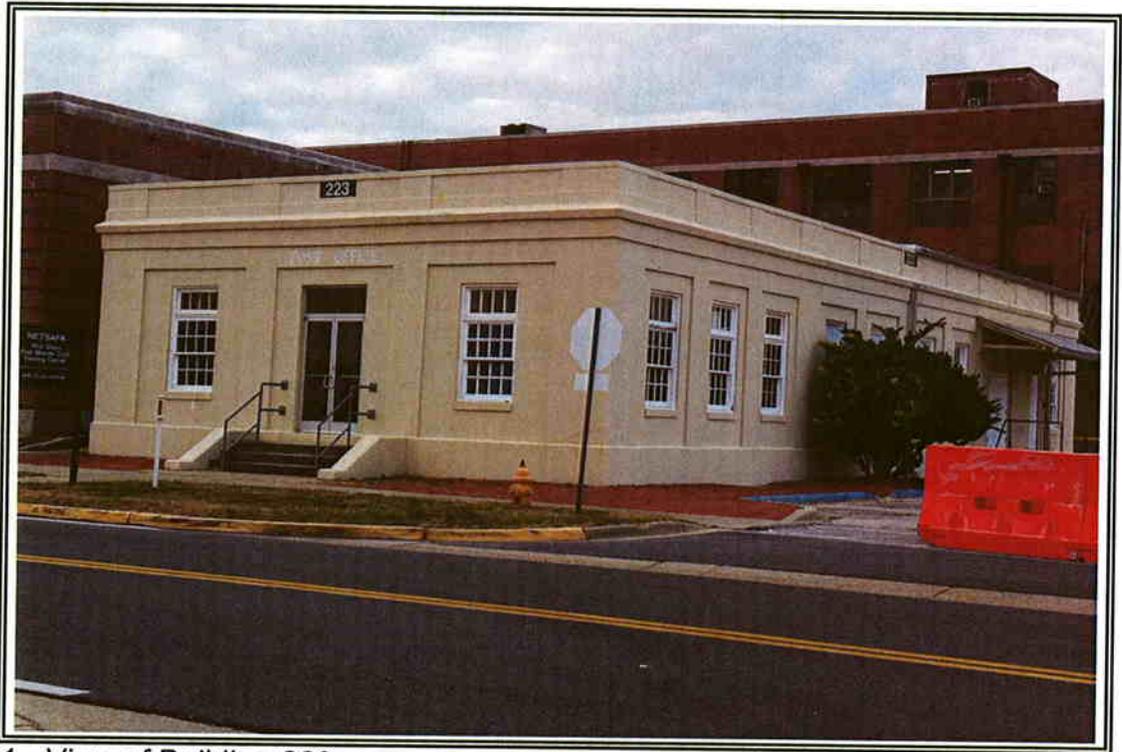
Effective dates



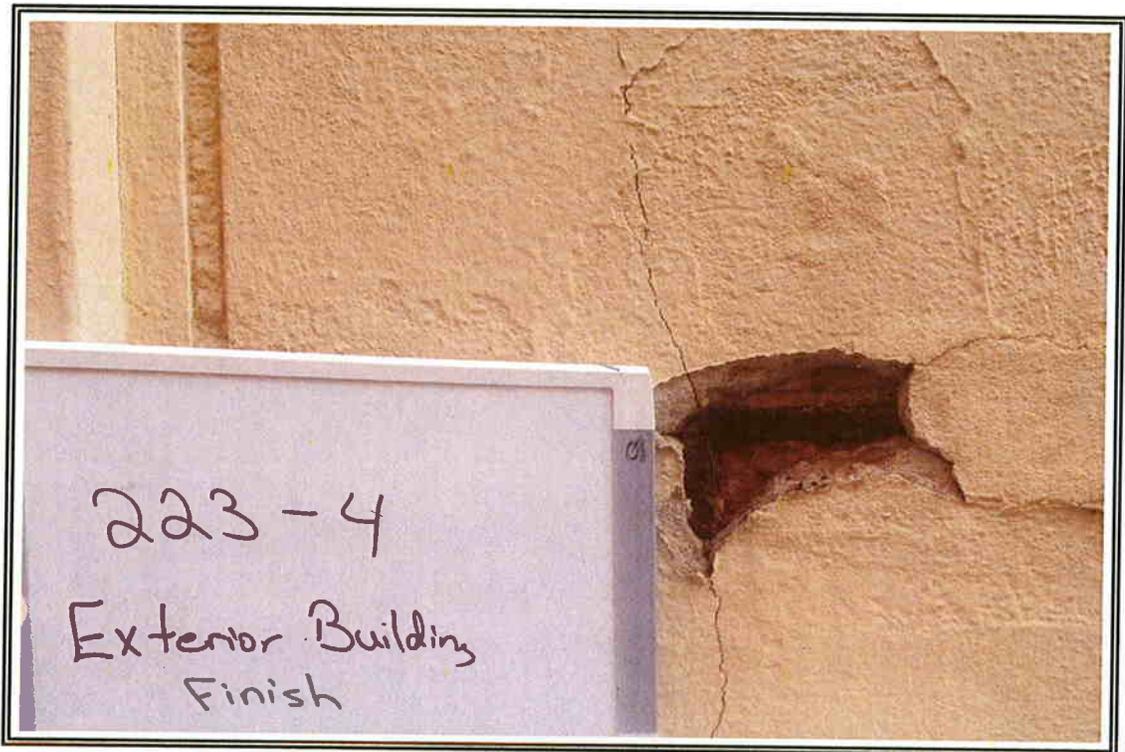
A handwritten signature in black ink, appearing to read "William R. Mudd".

For the National Institute of Standards and Technology

**APPENDIX B
PHOTOGRAPH**



1. View of Building 223.



2. Close-up view of the exterior stucco finish.

APPENDIX C
LABORATORY RESULTS
CHAIN-OF-CUSTODY

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone/Fax: (407) 599-5887 / (407) 599-9063

<http://www.emsl.com>orlandolab@emsl.com

EMSL Order:	341209589
CustomerID:	AERO72
CustomerPO:	M3004.0525.17
ProjectID:	

Attn: **Curtis Mills**
Aerostar Environmental Services, Inc.
820 S. University Blvd
Suite 3H
Mobile, AL 36609

Phone: (251) 432-2664
 Fax: (251) 432-2685
 Received: 12/03/12 10:30 AM
 Analysis Date: 12/4/2012
 Collected: 11/30/2012

Project: M3004.0525.17

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
223-4-1 341209589-0001	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
223-4-2 341209589-0002	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
223-4-3 341209589-0003	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
223-4-4 341209589-0004	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
223-4-5 341209589-0005	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
223-4-6 341209589-0006	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected

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. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 12/06/2012 09:51:25

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804
 Phone/Fax: (407) 599-5887 / (407) 599-9063
<http://www.emsl.com> orlandolab@emsl.com

EMSL Order: 341209589
 CustomerID: AERO72
 CustomerPO: M3004.0525.17
 ProjectID:

Attn: **Curtis Mills**
Aerostar Environmental Services, Inc.
820 S. University Blvd
Suite 3H
Mobile, AL 36609

Phone: (251) 432-2664
 Fax: (251) 432-2685
 Received: 12/03/12 10:30 AM
 Analysis Date: 12/4/2012
 Collected: 11/30/2012

Project: M3004.0525.17

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
223-4-7 341209589-0007	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
223-4-8 341209589-0008	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
223-4-9 341209589-0009	Exterior Building Finish	Gray Non-Fibrous Heterogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 12/06/2012 09:51:25

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804
 Phone/Fax: (407) 599-5887 / (407) 599-9063
<http://www.emsl.com> orlandolab@emsl.com

EMSL Order: 341209589
 CustomerID: AERO72
 CustomerPO: M3004.0525.17
 ProjectID:

Attn: **Curtis Mills**
Aerostar Environmental Services, Inc.
820 S. University Blvd
Suite 3H
Mobile, AL 36609

Phone: (251) 432-2664
 Fax: (251) 432-2685
 Received: 12/03/12 10:30 AM
 Analysis Date: 12/4/2012
 Collected: 11/30/2012

Project: M3004.0525.17

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 12/3/2012 Sample Receipt Time: 10:30 AM
 Analysis Completed Date: 12/4/2012 Analysis Completed Time: 11:40 AM

Analyst(s):

Adelmarié Bones PLM (6)

Jerry Cherian PLM (3)

Samples reviewed and approved by:

Jonathan Teda, Asbestos Lab 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. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 12/06/2012 09:51:25



Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

341209589

Orlando, FL
Suite 900
5125 Adanson St
Orlando, FL 32804
PHONE: (407) 599-5887
FAX: (407) 599-9063

Company: Aerostar SES LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments** Third Party Billing requires written authorization from third party</small>	
Street: 820 S. University Boulevard, Suite 3H			
City/State/Zip: Mobile, AL 36609			
Report To (Name): Curtis Mills	Fax: 251-432-2685		
Telephone: 251-432-2664	Email Address: cmills@aerostar.net		
Project Name/Number: M3004.0525.17			
Please Provide Results: Email		Purchase Order: M3004.0525.17	State Samples Taken: FL

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.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/118 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM-Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D8480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/187) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
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Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Curtis R. Mills Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
223-4-1	Exterior Building Finish	4	11/30/12
223-4-2	Exterior Building Finish	4	11/30/12
223-4-3	Exterior Building Finish	4	11/30/12
223-4-4	Exterior Building Finish	4	11/30/12
223-4-5	Exterior Building Finish	4	11/30/12
223-4-6	Exterior Building Finish	4	11/30/12
223-4-7	Exterior Building Finish	4	11/30/12
223-4-8	Exterior Building Finish	4	11/30/12

Client Sample # (s): 223-4-1 - 223-4-9 Total # of Samples: 9

Relinquished (Client): [Signature] Date: 11/30/12 Time: 1700

Received (Lab): [Signature] Date: 12/1/12 Time: 1030

Comments/Special Instructions: Stop at first positive

