Naval Facilities Engineering Command
NAVFAC WASHINGTON

eProjects #1323946

HANGAR 111 LIFE EXTENSION

Hangar Doors Replacement

At

Patuxent River Naval Air Station
Patuxent River, Maryland

SPECIFICATION
(Final Submission)

PREPARED BY:

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(A/E Contract N40085-12-D-1703)

24 August 2016

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PART 1 SUMMARY

1.1 SEALS AND SIGNATURES

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed Professional Architect.

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-- End of Section --

SECTION 00 31 26

EXISTING HAZARDOUS MATERIAL INFORMATION
08/16

PART 1 GENERAL

1.1 HAZARDOUS MATERIAL REPORTS

The following reports are provided for information only.

a. Revised Hazardous Material Inspection Report and Abatement Specification (April 26, 2016) - Life Extension Study - Hangar 111, Patuxent River Navy Air Station, prepared by Global Consulting Inc.

Refer to Division 02 for requirements for hazardous material removal.

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WORK ORDER NO.
N40080-11-D-0491
FDWD9402-D11-0003
PWB # 2005228

REVISED HAZARDOUS MATERIAL INSPECTION REPORT AND ABATEMENT SPECIFICATION (APRIL 26, 2016)

LIFE EXTENSION STUDY - HANGAR 111
PATUXENT RIVER NAVAL AIR STATION

REPORT PREPARED BY:

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WASHINGTON, DC 20002

Submitted By: Judi Todd Darnell	Signature	Date:
Approved By CI Team Lead/PMEB	Signature	Date:
Design Manager:	Signature	Date:

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1.0 EXECUTIVE SUMMARY

The Naval Facilities Engineering Command (NAVFAC) retained Jacobs Engineering Group, Inc. (Jacobs) to provide Architect-Engineering Services for the Naval Air Station Patuxent River Hangar 111 (Facility) Life Extension. Jacobs retained Global Consulting, Inc. (GLOBAL) to perform the environmental services associated with the project. This report documents the inspection of the facility by several specialized inspectors for Lead-Based Paint (LBP), Asbestos-Containing Material (ACM), Oil Water Separators (OWS), and other potentially hazardous materials. The report includes abatement specifications.

Asbestos:

GLOBAL's Maryland-licensed, EPA-accredited Asbestos Inspectors assessed the Facility for the presence of asbestos-containing materials (ACM) in January and February 2012. GLOBAL performed a subsequent visual inspection in March and April 2016. All inspections were limited to accessible spaces.

Polarized Light Microscopy (PLM) identified the following three building materials as ACM:

1. Transite Wall Panel in Boiler House
2. Pipe insulation and fittings throughout the building, including, but not limited to, those located in machine rooms, above suspended ceilings, and in pipe chases and other concealed spaces
3. Floor Tiles and Mastic

Lead-Based Paint:

GLOBAL's Industrial Hygienists (IHs) assessed the Facility for the presence of Lead-Based Paint (LBP) materials in February 2012 and again in April 2016, using a NITON XLp XRF-type Analyzer (serial number 18595). All areas of the facility were made accessible for inspection. The majority of tested components were found to be below the standard that indicates a material as LBP.

The following components were determined to contain LBP:

1. Doors and Jambs
2. Window Casings, Sash, Sills
3. Window Wells
4. Radiators
5. Certain Types of Pipes (i.e. red standpipes)
6. Certain Sections of Wall in Stairwells
7. Hanger Doors and Frames
8. Fixed Ladders
9. Structural I-Beam

When these ACM or LBP materials are disturbed during renovation/demolition, they are to be managed in accordance with Federal, state, and local regulations. Abatement

specifications have been developed, and are presented in this report to comply with Federal, state, and local regulations.

Universal Wastes and Ozone-Depleting Substances:

Global identified a large quantity of potentially mercury-containing light bulbs during the survey. The observed bulbs were in use and not in storage. Disposal and management of such bulbs is regulated by the Recreation Conservation and Recovery Act (RCRA) Universal Waste Rule (UWR), and should be handled in accordance with this rule.

Other Hazards:

The facility is equipped with Oil Water Separators (OWS) that appear to be American Petroleum Institute (API) type separators. This type of separator does not provide adequate protection against the potential that oily materials washed off the hangar decks will impact stormwater and local bodies of water. It is recommended that the floor drains for Hangar 111 be equipped with modern coalescing plate OWS.

2.0 ACRONYMS

ACM	Asbestos-Containing Material
AHERA	Asbestos Hazard Emergency Response Act
EPA	Environmental Protection Agency
f/cc	Fibers per cubic centimeters of air
FT	Floor Tile
HEPA	High Efficiency Particulate Air
IH	Industrial Hygienist
LBP	Lead-Based Paint
M	Mastic (flooring)
MDE	Maryland Department of the Environment
NIOSH	National Institute of Occupational Safety and Health
NESHAP	National Emission Standards for Hazardous Air Pollution
OSHA	Occupational Safety & Health Administration
PCM	Phase Contrast Microscopy
PI	Pipe Insulation
PLM	Polarized Light Microscopy
RACM	Regulated Asbestos Containing Material
RCRA	Recreation Conservation and Recovery Act (RCRA)
SDS	Safety Data Sheet
TEM	Transmission Electron Microscopy
TSI	Thermal System Insulation
UW	Universal Waste

3.0 INTRODUCTION

The Naval Facilities Engineering Command (NAVFAC) retained Jacobs Engineering Group. Inc. (Jacobs) to provide Architect-Engineering Services for the Patuxent River Hanger 111 life extension. Jacobs retained GLOBAL Consulting, Inc. (GLOBAL) to perform the environmental services associated with this project. This Report documents the inspection of the facility for Lead-Based Paint (LBP), Asbestos-Containing Material (ACM), oil water separators (OWS), as well as potential Universal Waste (UW). The report includes abatement specifications. The mutual goal of the contractor and the government is to achieve a quality product, safely, on time and within budget.

4.0 ASBESTOS INSPECTION REPORT

GLOBAL inspected Hangar 111 for the presence of potential ACBM in January and February 2012. The locations of floor tiles, both exposed and underneath carpeting, were determined on March 14, 2016. Subsequent identification of pipe insulation and mudded pipe fittings was made on April 26, 2016. The results of this inspection are presented in Table 2 and have been updated on the drawings at end of report. The State of Maryland regulates how persons work with asbestos and regulates those who train persons to work with asbestos. The Environmental Protection Agency (EPA) regulations cover four asbestos activities; (1) removal, repair, or encapsulation of asbestos-containing materials (ACM), (2) approval of asbestos training providers, (3) regulation of persons accredited to perform asbestos-related activities, and (4) asbestos in schools. The MDE regulates the enforcement of the EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP), and enforcement of the asbestos notification regulations.

4.1 SURVEY METHODOLOGY

GLOBAL divided the asbestos survey into three distinct phases: pre-inspection planning, inspection for ACM, and development of recommendations for ACM response actions. The pre-inspection planning phase includes reviewing previous inspection reports, management plans, and abatement reports, if available. Jacobs provided GLOBAL with information regarding the history and planned use of the property. Based upon the review, GLOBAL planned an inspection strategy, and scheduled the inspection work. It was determined that this survey should include all portions of the building to ensure that intended renovation, and/or related demolition, can be conducted in an efficient and safe manner compliant with applicable Federal, state, and local regulations.

The reinspection was conducted on an area-by-area basis as determined in the planning phase. GLOBAL'S Maryland-licensed, EPA-accredited Asbestos Hazard Emergency Response Act (AHERA) Inspectors identified materials considered to be suspect ACM according to AHERA protocols, unless otherwise specified. While AHERA is not required for this facility, it is considered the most stringent standard.

As defined by AHERA, suspect materials include the following building material types:

- Surfacing materials - including spray-applied or troweled-on wall/ceiling coatings
- Thermal System Insulation (TSI) - including pipe insulation, boiler lagging, tank insulation, and duct insulation
- Miscellaneous materials - including ceiling tiles, floor tiles/mastic, gaskets (if accessible), fire doors, wallboard/spackle, roofing systems, etc.

Suspect materials that were homogeneous in nature (i.e., uniform in color and texture, installation date) were identified, touched to determine friability, and sampled by removing a small piece. Each small sample was placed into a labeled container. The sample location was promptly patched and repaired. One or more samples were collected from each homogeneous material if it was deemed safe to do so by the inspector. Samples were collected in a randomly-distributed manner in accordance with AHERA provisions (40 CFR 763.86). The location, condition, and quantity of each homogeneous material were recorded in the inspector's log.

Extreme care was taken to avoid potential fiber release during the inspection/sampling process. Before sample collection, a fine mist of water was typically applied to the sample site. Samples were collected using sharpened core samplers and/or razor knives, where necessary, and immediately placed in labeled containers and sealed. Any dust generated was wet-wiped and/or dust suppressant applied to minimize the potential for fiber release.

4.1.1 LABORATORY ANALYSES

The samples of suspect ACMs were packaged and delivered under strict chain of custody procedures. The samples were analyzed by EMSL Analytical, Inc. of Beltsville, MD or AMA Analytical Services, of Lanham, MD, both National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratories.

Quantification of asbestos content in bulk samples was performed via EPA 600/R-93/116 Method using Polarized Light Microscopy (PLM). A material containing greater than 1% asbestos is considered an asbestos-containing material (ACM). Personnel performing analyses have been trained in identifying asbestos by the McCrone Research Institute and participate in national accreditation programs. Laboratory data sheets indicating the sample designations, gross descriptions, and analytical results are provided at the end of this section.

4.1.2 INACCESSIBLE AND LIMITED-ACCESS SPACES

Every reasonable attempt was made to locate ACM present, and identify ACM as TSI, surfacing material, or other miscellaneous materials in the areas surveyed. Inaccessible areas could be addressed only through extrapolation of conditions in accessible building

spaces and review of building plans, specifications, or other building documents provided to GLOBAL. Areas that were inaccessible, or where the survey was limited to visual observation only, are identified on building drawings and/or in report narrative. Such inaccessible areas might include, but are not limited to those listed in Table 1: Description of Inaccessible Locations.

Table 1: Description of Inaccessible Locations

Within walls	Within fire doors
Enclosed pipe/duct chases	Inside mechanical equipment/ductwork
Above solid ceilings	Beneath materials stored in the building
In Aircraft Scale Vault	

Limited access areas (i.e. beneath fixed walls, under wall-to-wall carpeting, or above fixed ceilings with small access hatches) were investigated as feasible, and, as a result, conclusions regarding the presence or absence of asbestos might be of limited accuracy.

4.1.3 SURVEY LIMITATIONS

All other suspect materials uncovered during renovation/demolition activities not identified within this report should be assumed asbestos-containing, until future bulk sampling confirms otherwise.

GLOBAL does not take responsibility for any missing and/or incomplete data, and/or reports that were not provided prior to and/or during this survey.

4.2 ASBESTOS INSPECTION RESULTS

Asbestos sampling was performed on January 19, 2012, January 26, 2012, and February 3, 2012 by GLOBAL's Industrial Hygienists (IHs). The interior and exterior of Hangar 111, as well as the Boiler Building, were inspected for the presence of ACM. All occupied areas of the facility were accessible.

A total of 93 asbestos samples were collected from 97 homogeneous materials. Samples were sent to EMSL Analytical, Inc. of Beltsville, Maryland for Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy (PLM).The Occupational Health and Safety Administration defines an ACM as any material containing greater than 1% asbestos. Results of analysis are noted in Table 2: Description of Homogeneous Areas and Sampling Results.

Table 2: Description of Homogeneous Areas and Sampling Results

Sample		Description	Location	ACM Content
PAX 111	1, 4, 7	Roof Membrane top layer	Roof Test Cut 1, 2, and 3	NAD
PAX 111	2, 8	Roof insulated core layer	Roof Test Cut 1 and 3	NAD
PAX 111	3, 5, 9	Roof Membrane bottom layer	Roof Test Cut 1, 2, and 3	NAD
PAX 111	6	Roof Hatch Insulation	Roof Test Cut 2	NAD
PAX 111	10	White 2x2 ceiling tile	Room 94 (Men's lav)	NAD
PAX 111	11	White caulking along windows/ac unit	Room 94 (Men's lav)	NAD
PAX 111	12	White wall board and plaster	Room 94 (Men's lav)	NAD
PAX 111	13	Black expansion sealant along edge of flooring	Hangar Bay	NAD
PAX 111	14	Cementitious material on floor	Hangar Bay	NAD
PAX 111	15	Yellow pipe insulation from pipe end	Room 100	NAD
PAX 111	16	Residual pipe insulation around metal pipe	Room 100	NAD
PAX 111	17	Glue/mastic behind cove	Stairwell	NAD
PAX 111	18	Floor Tile-light gray w/ black flecks & yellow mastic	Stairwell	NAD
PAX 111	19	Blue cove and yellow mastic	Stairwell	NAD
PAX 111	20 PI	Pipe insulation	Electrical room	40 % - INS
PAX 111	20 Wrap	Canvas pipe wrap	Electrical room	NAD – Wrap

Sample		Description	Location	ACM Content
PAX 111	21 PI	Pipe insulation from elbow	Electrical room	60 % - INS
PAX 111	21 Wrap	Canvas wrap on PI	Electrical room	NAD-wrap
PAX 111	22	Green expansion sealant around water fountain pipe	near Room 114	NAD
PAX 111	23	Blue cove, and mastic	2nd Stairwell	NAD
PAX 111	24 FT	Floor tile multicolored	2nd Stairwell	NAD-FT
PAX 111	24 M	Black mastic under floor tile multicolored	2nd Stairwell	2 % - Mastic
PAX 111	25	Ceiling tile	2nd Stairwell	NAD
PAX 111	26	Caulk along floor at bottom of back doors	2nd Stairwell	NAD
PAX 111	27 FT; 28 FT	Floor tile brown, and black mastic (bottom layer of mastic)	Room 118	NAD
PAX 111	27 M	Black mastic (bottom layer of mastic) beneath brown floor tile	Room 118	NAD
PAX 111	28 M	Yellow mastic (top layer of mastic) beneath brown floor tile	Room 118	NAD
PAX 111	29	Off white wall plaster and brown paper layer	Room 118	NAD
PAX 111	30	Yellow pipe insulation	Hangar Bay	NAD
PAX 111	31	Black expansion sealant along edge of flooring	Hangar Bay	NAD
PAX 111	32	Beige floor tile w/ black dots and black mastic	Room 135 (Tool Room)	NAD
PAX 111	33	Leveling compound and black mastic	Room 135 (Tool Room)	NAD

Sample		Description	Location	ACM Content
PAX 111	34	Beige floor tile w/ black dots and black mastic	Room 135 (Tool Room)	NAD
PAX 111	35, 36	Dark gray carpet & yellow mastic	Room 135 (Tool Room)	NAD
PAX 111	37, 38	Ceiling tile (large and small dot)	Room 135 (Tool Room)	NAD
PAX 111	39, 40	Dark gray cove, and brown/tan mastic	Room 135A (Tool Room)	NAD
PAX 111	41	Pipe insulation	Room 133	30 % - INS
PAX 111	42	Mudded joint	Room 133	60 % - INS
PAX 111	43	Expansion material in wall	Hangar Bay	NAD
PAX 111	44	Black foam from compressed air dryer	Hangar Bay	NAD
PAX 111	45	Red cove, and black mastic	Stairwell	NAD
PAX 111	46, 78	Red firestop material	Stairwell; above ceiling by Room 222	NAD
PAX 111	47	Multi-colored floor tile, and black mastic	Stairwell	NAD
PAX 111	48	White caulk at rain leader	Exterior corner	NAD
PAX 111	49	Gray expansion material on wall	Exterior	NAD
PAX 111	50	Black expansion material	Exterior	NAD
PAX 111	51, 52	White window caulk	Exterior	NAD
PAX 111	53	Black expansion foam along bay seam	Exterior	NAD
PAX 111	54	Black w/ gray flecks expansion foam along bay seam	Exterior	NAD

Sample		Description	Location	ACM Content
PAX 111	55, 56, 57	Wall board throughout office	Gov't Inspection Office	NAD
PAX 111	58	Residual pipe insulation around metal pipe	Boiler house	NAD
PAX 111	59	White sealant used on fibrous insulation	Boiler house	NAD
PAX 111	60	White pipe insulation on large elbow	Loft above machine shop	NAD
PAX 111	61, 62	White pipe insulation	Loft above machine shop	40 % - INS
PAX 111	63	Cementitious material in wall near pipe as leaves loft	Loft above machine shop	35 % - INS
PAX 111	64	Pipe insulation first (bottom layer) of pipe leaving bldg	Loft above machine shop	NAD
PAX 111	65	Middle fibrous layer of pipe leaving bldg	Loft above machine shop	NAD
PAX 111	66	Cloth layer atop pipe leaving bldg	Loft above machine shop	NAD
PAX 111	67, 68, 69	Brown fibrous boards at edge of boiler house	Exterior boiler house	NAD
PAX 111	70	White sealant along pipe outside of bldg	Exterior hangar	NAD
PAX 111	71	White 2-4 ceiling tile (worm and pinholes)	West end of hallway (roadside lean-to)	NAD
PAX 111	72 FT	Tan tile under carpeting near room 204	Near Room 204	2 % - INS
PAX 111	72 M	Black mastic under tan tile	Near Room 204	5 % - Mastic
PAX 111	73	Dark gray cove and mastic	2nd Floor	NAD

Sample		Description	Location	ACM Content
PAX 111	74	Red tile under green carpet	Room 214	NAD
PAX 111	75	Beige linoleum	2nd Floor	NAD
PAX 111	76 FT; 80 FT	Brownish red floor tile	Hallway; hallway corner by Stairwell	2 % - Tile
PAX 111	76 M, 80 M	Black mastic	Hallway; hallway corner by Stairwell	7 % - Mastic
PAX 111	77 FT	Tan floor tile	Hallway	2 % - Tile
PAX 111	77 M	Black mastic under tan tile	Hallway	7 % - Mastic
PAX 111	79	Wall material	Above ceiling by Room 222	NAD
PAX 111	81	Light green/gray tile	Hallway near room 252	NAD
PAX 111	82	White flooring material	Room 252 under carpet	NAD
PAX 111	83	White pipe insulation on 12" pipe in ceiling	Near coffee mess	15 % - INS
PAX 111	84	Red tile w/ brown canvas	Middle of center lean-to	NAD
PAX 111	85 FT	Light blue w/ dark blue flecks floor tile	Men's Room	NAD
PAX 111	85 M	Gray/black mastic under light blue FT with dark blue flecks	Men's Room	NAD
PAX 111	86	2x2 white fibrous ceiling tile	End of hallway	NAD
PAX 111	87 FT	Dark red and tan floor tile	Under carpet of Room next to Rm 242	8 % - Tile
PAX 111	87 M	Black mastic under dark red and tan floor tile	Under carpet of Room next to Rm 242	<1 % - Mastic

Sample		Description	Location	ACM Content
PAX 111	88 FT, 93 FT	Brown floor tile w/ orange/white flecks	Room 227 and various	2 % - Tile
PAX 111	88 M	Yellow mastic under brown FT w/ orange & white flecks	2nd Floor	ND - Mastic
PAX 111	89	2x2 white fibrous ceiling tile	2nd Floor	NAD
PAX 111	90 FT	Green floor tile and yellow mastic	2nd Floor	13 % - Tile
PAX 111	90 M	Yellow mastic under green floor tile	2nd Floor	3 % - Mastic
PAX 111	91	Beige cove and yellow mastic	center office space of 3rd lean-to	NAD
PAX 111	92 FT	Light blue w/ dark blue flecks floor tile/ black mastic	Room 211 by secured door under carpet	5 % - Tile
PAX 111	92 M	Black mastic under light blue with dark blue flecks FT	Room 211 by secured door under carpet	8 % - Mastic
PAX 111	93 M	Black mastic under brown FT with orange/white flecks	Room 227	NAD - Mastic
NAD – No Asbestos Detected, FT – Floor Tile, INS – Insulation,				

4.3 ASBESTOS CONCLUSIONS

Materials considered to be potential ACM were sampled, and were found to contain asbestos concentrations of less than 1% regulated asbestos fibers; therefore, those materials are not considered ACM. Safety and health procedures normally employed during construction activity may be used for the removal, demolition, and disposal of these materials.

Three materials were found to have greater than 1% asbestos content, and are therefore considered to be regulated asbestos-containing materials (RACM). RACM is defined as friable asbestos material or non-friable asbestos-containing material (ACM) that will be, or has been, subjected to sanding, grinding, cutting, or abrading or has crumbled, pulverized, or reduced to powder in the course of demolition or renovation operations.

The following materials are considered to be RACM:

Asbestos-Containing Material	Location and Extent
Original Pipe Insulation	Throughout building, above suspended ceilings, and in machine rooms.
Original Elbow Insulation	Throughout building, above suspended ceilings, and in machine rooms.
Transite Panel	Boiler Room-Steam Line Penetration
Floor Tile and Mastic	Multiple Locations throughout building

These materials have been identified as asbestos-containing materials, and wherever these materials are found, they shall be removed in accordance with the specification provided in Section 5.0 Asbestos Abatement Specification. All quantities must be field-verified by a licensed asbestos abatement contractor(s) prior to demolition or renovation. Drawings of the extent and specific locations of the asbestos materials are presented in Appendix A.

5.0 ASBESTOS ABATEMENT SPECIFICATION

The following section presents the asbestos abatement specifications to remove and dispose of asbestos materials. As previously indicated, all quantities must be field verified by a licensed asbestos abatement contractor(s) (Contractor) prior to demolition or renovation.

5.1 REMOVAL SPECIFICATION

Scope: Removal and disposal of the following material prior to demolition:

Original Pipe Insulation
Original Elbow Insulation
Transite Panel
Floor Tile and Mastic

5.1.1 PRE-ABATEMENT SUBMITTALS

The abatement contractor (Contractor) shall prepare the following documents and shall submit to GLOBAL, or their representative, in a bound notebook at the mandatory pre-construction conference before beginning any asbestos abatement work:

1. A detailed plan describing the procedures proposed for use in complying with the requirements of the project specifications. The plan shall include the location and layout of decontamination areas, the sequencing of asbestos work and methods to be used to assure the safety of building occupants, workers, and visitors to the site. The plan shall also include methods for controlling visible emissions in the work area and the containerization of asbestos debris.
2. Medical examination reports for each Contractor employee who will be on site (standard form from examining physician). These reports shall be less than or equal to 12 months old at the end of the project.
3. Documentation that the Contractor is currently licensed by MDE for asbestos abatement. ***Note: License documentation is mandatory prior to beginning any work.***
4. Documentation of timely NESHAP notification to MDE and documentation of paid project fees.
5. Current certificates of accreditation (training) for each Contractor employee who will be on site.
6. Current documentation of respirator training and fit testing for each Contractor employee who will be on the site.
7. Letter from a U.S. EPA and MDE-approved disposal site to be used indicating that the ACM removed from the site will be accepted for disposal.
8. A listing of authorized personnel to be granted access to work area.
9. Copies of all required permits, licenses, and insurance.
10. Documentation of Contractor's notifications to appropriate base departments (Physical Plant, Environmental Safety, Facilities Planning, etc.) regarding the abatement project schedule.
11. A brief written description of any legal proceedings, lawsuits or claims which have been filed or levied against the Contractor, or any of their present or past employees for asbestos related activities.
12. A brief written description of any U.S. EPA, MDE, OSHA or other regulatory agency citations.
13. At least ten (10) different references (with names and phone numbers) of other asbestos abatement projects the Contractor has performed.
14. The names and numbers of person(s) to be contacted on behalf of the Contractor in cases of emergency.
15. Safety Data Sheets (SDSs) for all chemicals that will be used, or will be present, at the job site.

5.1.2 AREA PREPARATION

1. Base-specific asbestos abatement and NESHAP notifications shall be made in a timely manner; any required permits will be posted at the control building site.
2. All moveable items will be wet wiped and removed from the work area prior to creating a regulated area.
3. All power and potential energized circuits/other utilities will be locked and tagged out of service; alternate power panels shall be provided by the Contractor.
4. Critical barriers will be installed as a primary isolation of the containment work area.
5. Double layers of 6-mil polyethylene sheeting will be placed on the ground.
6. Double layers of 6-mil polyethylene sheeting will be installed on the floor and walls

within the building when removing the pipe insulation above the drop ceilings.

7. Negative air units will be placed throughout the building and exhausted to the outside through the existing building penetrations. The Contractor shall supply sufficient negative air machines to ensure a minimum of four (4) air exchanges per hour with one (1) additional unit will be provided as a backup in case of a unit failure.
8. Continuous monitoring of the pressure differential between the containment and Exterior of the building will be performed using a manometer with data logging or strip chart capabilities. Record of differential pressure shall be maintained and a minimum of -0.2-inch pressure differential with four (4) air changes per hour shall be maintained.

5.1.3 DECONTAMINATION CHAMBER

1. The entrance to the work area will be equipped with a three-stage decontamination chamber.
2. The decontamination chamber shall be equipped with a shower providing hot and cold water from the portable hot water heater. The stages of the chamber shall be identified as a clean room, decontamination shower, and dirty room
3. Sign in/out sheets will be posted at the entrance to the clean room. All personnel shall be required to sign in and out.
4. Disposable 6-mil poly bags will be placed in the dirty stage of the three-stage decontamination chamber. These bags will be utilized for the disposal of protective suits as crew exit the contained area.
5. Soap/shampoo will be provided and placed in the shower stage.
6. Disposable shower towels will be provided and placed in the clean room at shower exit.
7. Hooks will be provided for street clothing.
8. Sealable plastic bags will be used to ensure respirators are properly stored and for individual use only.
9. Signs indicating the asbestos decontamination hazard area will be posted on the flap of the clean stage of the decontamination chamber before the start of the work.
10. Maryland-licensed Supervisor and worker certifications will be posted with the sign in/out sheet, and a minimum of one Supervisor shall be present whenever work is being performed.
11. All asbestos-trained personnel entering the work area will remove street clothes, don disposable suiting, safety glasses, leather gloves, and wear a minimum of a half-face respirator for personal protection. Hard hats, steel toed boots, and eye protection shall be worn at all times during abatement.
12. Men and women will not be allowed to change clothes or shower together; these steps will be performed in shifts to provide privacy.
13. Asbestos personnel will remove their disposable asbestos suit in the third-stage decon, proceed to the second stage to shower, and proceed to the first stage to exit the area.
14. The waste generated from the decontamination process shall be packaged, shall be manifested, and shall be disposed of as asbestos waste.
15. No food or liquids will be allowed in the regulated area, with the exception of potable water with disposable cups located in the clean room.

16. Cold water and disposable cups shall be made available adjacent to the clean room entrance.

Note: Generators will be utilized for power where facility power is not available.

5.1.4 PRE-ABATEMENT INSPECTION

Following completion of preparation activities, the Contractor's Supervisor shall perform a pre-abatement visual inspection with the onsite IH before any work may begin.

1. Contractor will contact GLOBAL to schedule, conduct, and document the pre-abatement visual inspection.
2. GLOBAL shall contact the Patuxent NAS Environmental Division and inform them of the date and time the inspection will take place.
3. GLOBAL's IH and Contractor's Supervisor will conduct a visual inspection of the regulated area and the decontamination chamber.

5.1.5 WORKER PERSONAL PROTECTIVE EQUIPMENT

All asbestos-trained personnel entering the work area will be required to don the following:

1. Disposable suits, which will include hood and booties.
2. A minimum of a half-face respirator with P-100 HEPA filters suitable for asbestos abatement work.
3. Safety harness and lanyards, if required.
4. Safety glasses.
5. Hearing Protection, if required.
6. Protective work gloves.
7. Hard hats.

   Note: PPE that cannot be appropriately decontaminated will be disposed of as ACM waste.

5.1.6 ABATEMENT PROCEDURES

All abatement work to be performed according with OSHA, EPA and MDE regulations and NAVFAC requirements.

All abatement work to be performed by workers properly trained and certified by an EPA approved training provider. All abatement workers will have current state certifications and licensures posted in the decontamination trailer.

All asbestos material will be removed from the building, and will be conducted utilizing appropriate containments and negative pressure ventilation. Ventilation shall be to the Exterior of the building.

The Contractor shall conduct daily personal air sampling on abatement workers according to

the procedures outlined in OSHA 29 CFR 1926.1101. The results shall be posted and made available to the employees and copies shall be submitted to GLOBAL.

Asbestos-Containing Material Abatement:

1. Containments shall be constructed and approved by the GLOBAL IH; all required notifications shall be made prior to starting abatement.
2. All ACM will be removed using wet methods with amended water.
3. Airless sprayers will be utilized to wet the material prior to removal.
4. The Contractor shall conduct daily personal air sampling on abatement workers according to the procedures outlined in OSHA 29 CFR 1926.1101 and the results submitted to GLOBAL and posted at the containment.
5. GLOBAL, or their representative, may also conduct daily area air sampling in or around the work area to gauge the effectiveness of the abatement work methods.
6. ACM pipe insulation shall be removed from the pipe and immediately placed in labeled ACM bags.
7. Floor tiles shall be removed and an appropriate solvent used to remove ACM Mastic.
8. If the transite is adhered with nails, crowbars and hammers will be utilized to remove the nails. Breakage will be minimized to the greatest extent possible.
9. If the transite is adhered with screws, power drills with a Phillips or straight head bits will be utilized to back out the screws.
10. The transite panels will be removed completely, if possible, and placed on pallets. The pallets will be lined with two layers of 6-mil polyethylene sheeting and will be sealed to form a bag. The panels will be thoroughly wetted prior to sealing the pallet bags.
11. Man-lifts, scissor-lifts, or other type of scaffolding system, will be utilized to access ACM that is above shoulder-height.
12. All workers will use safety harnesses and retractable lanyards, and other appropriate fall protection, as required.
13. All personnel will be properly trained on lifts, and possess a training card for such lift prior to use.

5.1.7 FINAL CLEANING

After removal of the ACM packaged waste, equipment (except negative air machines) and tools, all remaining building components will be wet wiped and/or HEPA vacuumed and removed from the control area. The primary layer of polyethylene sheeting will be wetted with amended water and rolled up slowly as to not disturb any of the small pieces of ACM that may be present. All waste generated during final cleaning will be packaged and disposed of as ACM waste. The cleaning will continue until it is visually free of debris and dust and ready for post-abatement inspection by the onsite IH.

5.1.8 POST-ABATEMENT INSPECTION, FINAL AIR SAMPLING, AND CLEARANCE

Following completion of the final cleaning activities, Contractor's Supervisor will require a final visual inspection from the onsite IH before releasing the regulated area for final clearance.

1. Contractor will contact GLOBAL to conduct and document the post-abatement visual inspections and final clearances.
2. GLOBAL shall contact Jacobs and the Patuxent NAS Environmental Division to inform them of the date and time of final inspection..
3. Following a stringent visual inspection, and confirmation that all visible evidence of ACM has been removed, GLOBAL will then conduct final clearance air sampling using PCM analysis, NIOSH Method 7400. The Maryland final clearance occupancy criteria is <0.01 fibers/cc.
4. Any laboratory, or personnel selected for analyzing air samples, shall possess current certification verifying their participation in the National Institute of Standards and Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association (AIHA) Proficiency Analytical Testing (PAT) program. The laboratory shall also have demonstrated ability in analyzing clearance air samples using Phase Contract Microscopy (PCM) and transmission electron microscopy (TEM). All analysts for the laboratory shall have successfully completed the National Institute for Occupational Safety and Health (NIOSH) 582 course (or equivalent) and show proficiency in the NIOSH 7400 analytical method for fiber counting as published in the NIOSH Manual of Analytical Methods.
5. Upon receipt of acceptable final clearance results, the containment will be released for demolition by GLOBAL. All equipment, remaining critical barriers, and sheeting shall be removed and disposed of as contaminated waste. Signage shall be removed.

5.1.9 DISPOSAL

Each waste trailer, or waste transportation container, will be inspected by the GLOBAL IH to ensure that it is empty, clean, and properly lined prior to being staged on-site for loading. GLOBAL's IH will maintain a record of all waste material including ACM waste and construction debris removed from the site during abatement. All regulated waste will be manifested and transported to the designated disposal site in accordance with all applicable Federal, state, and local regulations.

Asbestos Material:
All asbestos material will be directly placed into poly-lined trailers suitable for asbestos waste transport.

All waste transport vehicles will have a fully executed waste manifest. Once the manifests have been fully executed and received by Contractor, they will be provided to GLOBAL, the NAVY, MDE, and the EPA.

(Waste Transporter will be)	(Disposal site will be)
Dumpsters LLC	Days Cove Landfill
3320 Weedon Street	6425 Days Cove Road
Baltimore, MD 21226	White Marsh, MD 21162
Phone # 410-609-2352	Phone # 410-335-3778

Note: Or other approved locations and transporters

5.1.10 SAFETY

The Contractor's Environmental Supervisor will ensure that all work is conducted in accordance with the Approved Safety and Accident Prevention Plan and the Contractor Quality Control Plan. Work will proceed only when a designated Site Safety and Health Officer or alternate is present on site.

Safety Harness
Safety harnesses will be utilized for all work above four (4) feet. Retractable lanyards will be utilized and tied off to a building component, or fall protection system, that can support a worker.

Heat Stress:

Take frequent breaks in cool areas, take longer breaks, and alternate workers more often. Drink water and other fluids to replace water loss from sweating. Avoid salt tablets while working on the jobsite.

Lift Operators:

All lift operators will be trained by the lift provider on its complete operation. Training includes hands-on training on the proper function of the controls and pre-trip inspections prior to operations. Personnel will not be allowed to operate equipment if they have not received proper training**.**

5.1.11 PROJECT CLOSEOUT SUBMITTALS

The abatement Contractor shall submit the following project closeout report upon completion of the ACM abatement project.

The following documents shall be submitted at the conclusion of the project in a bound notebook to GLOBAL, or their representative:

1. Brief narratives documenting the abatement including dates and quantities that materials were removed, volumes, air monitoring results, worker records, and pressure differential monitoring documentation.
2. Copies of daily project sign-in/sign-out logs and daily project log forms (including descriptions of unique or unusual events during the project).
3. A copy of final clearance certification.
4. Copies of waste manifests, disposal documents, and any other relevant records.

6.0 LEAD-BASED PAINT INSPECTION REPORT

The Facility was assessed for the presence of Lead-based Paint (LBP) materials in February 2012 and April 2016. All occupied areas of the facility were made accessible for inspection. This inspection was conducted by GLOBAL IH personnel, and the results are presented in Section 6.1 LBP Inspection Report.

6.1 LBP INSPECTION REPORT

Testing for LBP was conducted using a NITON XLp XRF-type analyzer (serial number 18595). Prior to XRF analysis, the instrument was calibrated against reference standards of known lead concentrations. Doors, door frames, windows, window frames, window sills, walls, ceilings, stairs, pipes, and other miscellaneous painted surfaces and building materials were screened for LBP.

The XRF detects lead in the field by reading fluorescence emanating from a painted surface when exposed to small amounts of radiation. XRF readings are in milligrams per square centimeter (mg/cm^2), a mass per area unit. LBP is defined as a point containing greater than 0.7 mg/cm^2 lead according to the Maryland Department of the Environment. Prior to testing, the composition of the test building substrate (e.g., wood, metal, etc.) was determined by the lead inspector, and subsequently logged into the XRF analyzer. The NITON XLp automatically performs a substrate correction to ensure that this factor does not result in false negative readings.

At the end of each sampling session, a calibration re-check is performed to ensure that the instrument has maintained accuracy and precision during the measurement period. The instrument is also calibrated each time it is turned off, or on, and typically at four (4) hour intervals during the workday for the same reasons. The use of the XRF was in general accordance with the Performance Characteristic Sheet (PCS) methodology for the specific instrument. XRF instrument calibration checks were performed according to the PCS.

6.2 LBP INSPECTION DATA

The NITON XLp XRF data was downloaded directly to a computer to generate a report detailing the date/time, materials sampled, location, substrate and lead content. This inspection included only painted surfaces.

February 22, 2012;

During the XRF survey, the four sides of each structure were designated as A, B, C or D.

Side A = South-south-west or parallel to the sit access road or the wall at the office entrance to Building
Side B = North-north-west or walls located to the left (clockwise) of side A.
Side C = North-north-east or the side opposite side A.
Side D = South-south-west or the side located to the right of Side A

All shots not marked as (interior) in the "Structure" column of the following results table were made on the outside of the listed structure or equipment. LBP testing was conducted throughout the interior and Exterior of the structure. The annotated and raw data is presented in Attachment 2.

6.3 LBP INSPECTION RESULTS

The majority of the structures tested were found to be below the standard that indicates they are LBP according to the Maryland Department of the Environment.

Lead-based paint is defined as any paint, varnish, shellac, or other coating that contains lead greater than 0.7 mg/cm^2 as measured by XRF analysis.

The following materials were found to be coated in LBP:

Door and Jambs
Window Casings, Sash, Sills
Window Wells
Radiators
Certain Types of Pipes
Certain Sections of Wall in Stairwells
Hanger Doors and Frames
Fixed Ladders
I-Beam

6.4 LBP ABATEMENT REQUIREMENTS

The contractor performing demolition shall characterize the LBP materials to be demolished using ASTM E-1908 and if the material passes the EPA Landfill criteria as determined by a Toxic Chemical Leaching Procedure (TCLP) it may be disposed of as normal construction waste in a facility licensed to accept the materials. The contractor shall remove the materials as a whole component to the greatest extent possible and shall properly characterize each waste stream for disposal. Under an agreement with the Federal Occupational Safety and Health Administration (OSHA), MOSH promotes occupational safety and health in workplaces across Maryland. In addition to adopting many of the federal standards for **General Industry (29 CFR 1910)**, **Construction (29 CFR 1926)**, and

Agriculture (29 CFR 1928), MOSH has supplemented the OSHA standards with several requirements unique to Maryland.

Contractors must be trained and accredited through the Maryland Department of the Environment (MDE). Lead paint contractors include those who work on residential, public, and commercial buildings as well as the maintenance work required in rental housing; structural steel projects, such as bridges, water tanks, and industrial structures; and conduct lead paint inspections.

Supervisors must be trained and accredited through MDE. Lead paint supervisors include maintenance and repainting supervisors, lead paint removal and demolition supervisors, and structural steel supervisors who oversee lead paint activities on steel bridges, water tanks, and industrial structures.

Lead paint inspectors must be trained and accredited.

Abatement workers must be trained in accordance with Maryland state laws.

7.0 UNIVERSAL WASTES AND OZONE-DEPLETING SUBSTANCES

EPA's Universal Waste (UW) regulations are promulgated in 40 CFR 273. This regulation sets hazardous waste management standards for federally designated "universal wastes," which include:

- Batteries
- Pesticides
- Mercury-containing equipment and
- Bulbs (lamps)

The regulations are alternate standards for the handling of UW. In contrast to the requirements found in 40 CFR 260 through 272, UW should be segregated and disposed of every 90 days, and in accordance with Federal, state, and local regulations. Disposal and management of such bulbs is regulated by the Recreation Conservation and Recovery Act (RCRA) Universal Waste Rule (UWR) and should be handed in accordance with this rule. All future identified UW should be properly packaged and disposed of in accordance with Universal Waste rules.

The lighting system within Hangar 111 utilizes potentially-mercury containing fluorescent light bulbs. The observed bulbs were in use, and not in storage. As these bulbs are replaced, we recommend they be disposed of as Universal Waste.

8.0 OTHER HAZARDS

The facility is equipped with Oil Water Separators (OWS) that appear to be American Petroleum Institute (API) type separators. This type of separator does not provide adequate protection against the potential that oily materials washed off the hangar decks will impact stormwater and local bodies of water. It is recommended that the floor drains for Hangar 111 be equipped with modern coalescing plate OWS.

ATTACHMENT 1 – ASBESTOS RESULTS

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Carl Kohlmeyer**
Global Consulting, Inc.
1818 New York Avenue N.E.
Suite 111
Washington, DC 20002

Fax: (202) 832-1434 Phone: (202) 832-1433
Project: **PR NAS HANGER 1**

Customer ID: GLOC62
Customer PO:
Received: 02/03/12 3:00 PM
EMSL Order: 191201066

EMSL Proj:
Analysis Date: 2/5/2012

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX 111 1 *191201066-0001*	ROOF MEMBRANE TOP LYR-ROOF TEST CUT 1	Black Fibrous Heterogeneous	15%	Glass	85%	Non-fibrous (other)	**None Detected**
PAX 111 2 *191201066-0002*	ROOF INSULATED CORE LYR-ROOF TEST CUT 1	Gray/Tan Fibrous Heterogeneous	40% 40%	Cellulose Glass	20%	Non-fibrous (other)	**None Detected**
PAX 111 3 *191201066-0003*	ROOF MEMBRANE BOTTOM LYR-ROOF TEST CUT 1	Black Fibrous Heterogeneous	25% 10%	Cellulose Glass	65%	Non-fibrous (other)	**None Detected**
PAX 111 4 *191201066-0004*	ROOF MEMBRANE TOP LYR-ROOF TEST CUT 2	Black Fibrous Heterogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**
PAX 111 5 *191201066-0005*	ROOF MEMBRANE BOTTOM LYR-ROOF TEST CUT 2	Black Fibrous Heterogeneous	18% 10%	Cellulose Glass	72%	Non-fibrous (other)	**None Detected**

Initial report from 02/06/2012 09:13:14

Analyst(s)
Emily Baker (9)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Carl Kohlmeyer**
Global Consulting, Inc.
1818 New York Avenue N.E.
Suite 111
Washington, DC 20002

Fax: (202) 832-1434 Phone: (202) 832-1433
Project: **PR NAS HANGER 1**

Customer ID: GLOC62
Customer PO:
Received: 02/03/12 3:00 PM
EMSL Order: 191201066

EMSL Proj:
Analysis Date: 2/5/2012

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX 111 6 *191201066-0006*	ROOF HATCH INS-ROOF TEST CUT 2	Brown/Gray Fibrous Heterogeneous	40%	Cellulose	40% 20%	Non-fibrous (other) Perlite	**None Detected**
PAX 111 7 *191201066-0007*	ROOF MEMBRANE TOP LYR-ROOF TEST CUT 3	Black Fibrous Heterogeneous	50% 25%	Cellulose Glass	25%	Non-fibrous (other)	**None Detected**
PAX 111 8 *191201066-0008*	ROOF INSULATED CORE LYR-ROOF TEST CUT 3	Gray/Black/Yellow Fibrous Heterogeneous	50%	Cellulose	50%	Non-fibrous (other)	**None Detected**
PAX 111 9 *191201066-0009*	ROOF MEMBRANE BOTTOM LYR-ROOF TEST CUT 3	Black Fibrous Heterogeneous	20% 30%	Glass Cellulose	50%	Non-fibrous (other)	**None Detected**

Initial report from 02/06/2012 09:13:14

Analyst(s)

Emily Baker (9)

Joe Centifonti, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.
Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

THIS IS THE LAST PAGE OF THE REPORT.

Asbestos Lab Services Chain of Custody

EMSL Order Number(Lab Use Only): 191201066

EMSL ANALYTICAL, INC.
Beltsville, MD
10768 Baltimore Avenue
Beltsville, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: Global Consulting, Inc.
Street: 1818 New York Avenue, NE Suite 111
City/State/Zip: Washington, DC 20002
Report To (Name): Carl Kohlmeyer
Telephone: 2028321433
Fax: 2028321434
Email Address: carl.kohlmeyer@verizon.net
Project Name/Number: PR NAS Hanger 1
Please Provide Results: Email
Purchase Order: R0499-002
State Samples Taken: MD

EMSL-Bill to: ☑ Same ☐ Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party

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 ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☒ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ EPA Protocol (Semi-Quantitative)
☐ EPA Protocol (Quantitative)

Other:
☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Filter Pore Size (Air Samples): ☐ 0.8µm ☐ 0.45µm

Samplers Name:

Samplers Signature:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
PAX111-01 Through PAX111-009	Roofing Materials See Attached List.		

Client Sample # (s): PAX111-001 - PAX111-009
Total # of Samples: 9
Relinquished (Client): [signature] **Date:** 2-3-12 **Time:** 3 pm
Received (Lab): A. Bosworth Walk In **Date:** 2/3/12 **Time:** 3 pm
Comments/Special Instructions:

Controlled Document – Asbestos Lab Services COC – A1.0 – 11/23/2009

191201066

1912010666

Pax River 111 01-19-12

Sample #		Description	Location
PAX 111	1	Roof Membrane top layer	Roof Test Cut 1
PAX 111	2	Roof insulated core layer	Roof Test Cut 1
PAX 111	3	Roof Membrane bottom layer	Roof Test Cut 1
PAX 111	4	Roof Membrane top layer	Roof Test Cut 2
PAX 111	5	Roof Membrane bottom layer	Roof Test Cut 2
PAX 111	6	Roof Hatch Insulation	Roof Test Cut 2
PAX 111	7	Roof Membrane top layer	Roof Test Cut 3
PAX 111	8	Roof insulated core layer	Roof Test Cut 3
PAX 111	9	Roof Membrane bottom layer	Roof Test Cut 3

AMA Analytical Services, Inc.

A Specialized Environmental Laboratory

CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	Global Consulting, Inc.	**Job Name:**	Jacobs Pax River 111 Hanger	**Chain Of Custody:**	220968
Address:	1818 New York Avenue, NE, Suite 111	**Job Location:**	Pax River	**Date Analyzed:**	2/3/2012
	Washington, DC 20002	**Job Number:**	R0499	**Person Submitting:**	Judi Darnell
		P.O. Number:	Not Provided		

Attention: Judi Darnell

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
12031878	PAX 111 B/10	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Layered	PCSW	
12031879	PAX 111 B/11	NAD	--	--	--	--	--	--	--	--	6	94	CK	White	Homogeneous	PC	
12031880	PAX 111 B/12 Wall Board	NAD	--	--	--	--	--	--	10	--	--	90	WB	Multi	Layered	PC	
12031881	PAX 111 B/12 Plaster	NAD	--	--	--	--	--	--	--	--	--	100	PL	White	Homogeneous	PC	
12031882	PAX 111 B/13	NAD	--	--	--	--	--	--	3	--	--	97	SSL	Black	Homogeneous	PC	
12031883	PAX 111 B/14	NAD	--	--	--	--	--	--	--	--	--	100	Cement	Gray	Homogeneous	PC	
12031884	PAX 111 B/15	NAD	--	--	--	--	20	--	--	--	10	70	PI	Yellow	Homogeneous	PC	
12031885	PAX 111 B/16	NAD	--	--	--	--	--	--	TR	--	--	100	PI	Beige	Homogeneous	PC	
12031886	PAX 111 B/17	NAD	--	--	--	--	--	--	--	--	--	100	Glue	Beige	Homogeneous	PC	
12031887	PAX 111 B/18 FT	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
12031888	PAX 111 B/18 M	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Yellow	Homogeneous	PC	
12031889	PAX 111 B/19 CB	NAD	--	--	--	--	--	--	--	--	--	100	CB	Blue	Homogeneous	PC	

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CERTIFICATE OF ANALYSIS

NVLAP 101143-0

Client:	Global Consulting, Inc.	**Job Name:**	Jacobs Pax River 111 Hanger	**Chain Of Custody:**	220968
Address:	1818 New York Avenue, NE, Suite 111	**Job Location:**	Pax River	**Date Analyzed:**	2/3/2012
	Washington, DC 20002	**Job Number:**	R0499	**Person Submitting:**	Judi Darnell
		P.O. Number:	Not Provided		

Attention: Judi Darnell

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
12031890	PAX 111 B/19 M	NAD	--	--	--	--	--	--	--	--	--	100	MS	Beige	Homogeneous	PC	
12031891	PAX 111 B/20 PI	40	40	--	--	--	--	--	20	--	--	40	PI	Off-White	Homogeneous	PC	
12031892	PAX 111 B/20 Wrap	NAD	--	--	--	--	--	--	80	--	--	20	Wrap	Gray	Homogeneous	PC	
12031893	PAX 111 B/21 PI	60	60	--	--	--	--	--	--	--	--	40	PI	Gray	Homogeneous	PC	
12031894	PAX 111 B/21 Wrap	NAD	--	--	--	--	--	--	60	--	--	40	Canvas	Off-White	Homogeneous	PC	
12031895	PAX 111 B/22	NAD	--	--	--	--	--	--	--	--	10	90	SSL	gren	Homogeneous	PC	
12031896	PAX 111 B/23 CB	NAD	--	--	--	--	--	--	--	--	--	100	CB	Blue	Homogeneous	PC	
12031897	PAX 111 B/23 M	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Multi	Homogeneous	PC	
12031898	PAX 111 B/24 FT	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	PC	
12031899	PAX 111 B/24 M	2	2	--	--	--	--	--	2	--	--	96	MS	Black	Homogeneous	PC	
12031900	PAX 111 B/25	NAD	--	--	--	--	20	--	40	--	--	40	CT	Multi	Layered	PC	

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NVLAP 101143-0

Client:	Global Consulting, Inc.	**Job Name:**	Jacobs Pax River 111 Hanger	**Chain Of Custody:**	220968
Address:	1818 New York Avenue, NE, Suite 111	**Job Location:**	Pax River	**Date Analyzed:**	2/3/2012
	Washington, DC 20002	**Job Number:**	R0499	**Person Submitting:**	Judi Darnell
		P.O. Number:	Not Provided		

Attention: Judi Darnell

Summary of Polarized Light Microscopy

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12031901	PAX 111 B/26	NAD	--	--	--	--	--	--	--	--	--	100	CK	White	Homogeneous	PC	
12031902	PAX 111 B/27 FT	TR [1]	TR	--	--	--	--	--	--	--	--	100	FT	Brown	Homogeneous	PC	
12031903	PAX 111 B/27 M	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Black	Homogeneous	PC	
12031904	PAX 111 B/28 FT	TR [1]	TR	--	--	--	--	--	--	--	--	100	FT	Brown	Homogeneous	PC	
12031905	PAX 111 B/28 M	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Tan	Homogeneous	PC	
12031906	PAX 111 B/29 Wall Plaster	NAD	--	--	--	--	--	--	TR	--	--	100	Wall PL	Off-White	Homogeneous	PC	
12031907	PAX 111 B/29 Paper Layer	NAD	--	--	--	--	--	--	60	--	--	40	Paper	Brown	Homogeneous	PC	
12031908	PAX 111 B/30	NAD	--	--	--	--	10	--	--	--	3	87	PI	Multi	Homogeneous	PC	
12031909	PAX 111 B/31	NAD	--	--	--	--	--	--	2	--	--	98	SSL	Black	Homogeneous	PC	
12031910	PAX 111 B/32 FT	NAD	--	--	--	--	--	--	--	--	--	100	FT	Beige	Homogeneous	PC	
12031911	PAX 111 B/32 M	NAD	--	--	--	--	--	--	2	--	--	98	MS	Black	Homogeneous	PC	

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NVLAP 101143-0

Client:	Global Consulting, Inc.	**Job Name:**	Jacobs Pax River 111 Hanger	**Chain Of Custody:**	220968
Address:	1818 New York Avenue, NE, Suite 111	**Job Location:**	Pax River	**Date Analyzed:**	2/3/2012
	Washington, DC 20002	**Job Number:**	R0499	**Person Submitting:**	Judi Darnell
		P.O. Number:	Not Provided		

Attention: Judi Darnell

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
12031912	PAX 111 B/33 Lvl Cmpd	NAD	--	--	--	--	--	--	--	--	--	100	LC	Gray	Homogeneous	PC	
12031913	PAX 111 B/33 M	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Black	Homogeneous	PC	
12031914	PAX 111 B/34 FT	NAD	--	--	--	--	--	--	--	--	--	100	FT	Black	Homogeneous	PC	
12031915	PAX 111 B/34 M	NAD	--	--	--	--	--	--	2	--	--	98	MS	Black	Homogeneous	PC	
12031916	PAX 111 B/35 M Only	NAD	--	--	--	--	--	--	--	40	--	60	CM	Gray	Homogeneous	PC	
12031917	PAX 111 B/36 M Only	NAD	--	--	--	--	--	--	60	--	--	40	CM	Yellow	Homogeneous	PC	
12031918	PAX 111 B/37	NAD	--	--	--	--	25	--	30	--	--	45	CT	Multi	Layered	PC	
12031919	PAX 111 B/38	NAD	--	--	--	--	30	--	30	--	--	40	CT	Multi	Homogeneous	PC	
12031920	PAX 111 B/39 CB	NAD	--	--	--	--	--	--	--	--	--	100	CB	Gray	Homogeneous	PC	
12031921	PAX 111 B/39 M	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Brown	Homogeneous	PC	
12031922	PAX 111 B/40 CB	NAD	--	--	--	--	--	--	--	--	--	100	CB	Gray	Homogeneous	SW	

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	Washington, DC 20002	**Job Number:**	R0499	**Person Submitting:**	Judi Darnell
		P.O. Number:	Not Provided		

Attention: Judi Darnell

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Sample Type	Sample Color	Homogeneity	Analyst ID	Comments
12031923	PAX 111 B/40 M	NAD	--	--	--	--	--	--	--	--	--	100	MS	Tan	Homogeneous	SW	
12031924	PAX 111 B/41	30	30	--	--	--	--	--	40	--	--	30	PI	Multi	Layered	SW	
12031925	PAX 111 B/42	60	60	--	--	--	--	--	--	--	--	40	MUD	Gray	Homogeneous	SW	
12031926	PAX 111 B/43	NAD	--	--	--	--	--	--	TR	--	--	100	EJ	Multi	Layered	SW	
12031927	PAX 111 B/44	NAD	--	--	--	--	--	--	TR	--	--	100	Foam	Black	Homogeneous	SW	
12031928	PAX 111 B/45 CB	NAD	--	--	--	--	--	--	--	--	--	100	CB	Red	Homogeneous	SW	
12031929	PAX 111 B/45 M	NAD	--	--	--	--	--	--	TR	--	--	100	MS	Black	Homogeneous	SW	
12031930	PAX 111 B/46	NAD	--	--	--	--	--	10	TR	--	--	90	FS	Red	Homogeneous	SW	
12031931	PAX 111 B/47 FT	NAD	--	--	--	--	--	--	--	--	--	100	FT	Multi	Homogeneous	SW	
12031932	PAX 111 B/47 M	NAD	--	--	--	--	--	--	TR	TR	--	100	MS	Clear	Homogeneous	SW	
12031933	PAX 111 B/48	NAD	--	--	--	--	--	--	--	--	--	100	CK	White	Homogeneous	SW	
12031934	PAX 111 B/49	NAD	--	--	--	--	--	--	--	--	--	100	EJ	Gray	Homogeneous	SW	
12031935	PAX 111 B/50	NAD	--	--	--	--	--	--	--	--	--	100	EJ	Black	Homogeneous	SW	

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12031936	PAX 111 B/51	NAD	--	--	--	--	--	--	TR	--	--	100	CK	White	Homogeneous	SW	
12031937	PAX 111 B/52	NAD	--	--	--	--	--	--	--	--	--	100	CK	White	Homogeneous	SW	
12031938	PAX 111 B/53	NAD	--	--	--	--	--	--	--	--	--	100	EJ	Black	Homogeneous	SW	
12031939	PAX 111 B/54	NAD	--	--	--	--	--	--	TR	--	--	100	EJ	Black	Homogeneous	SW	

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The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

1 TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.

2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

Uncertainty: For samples containing asbestos in range of 1-10% the CV is 0.43, 11-35% CV=0.55, >35 CV=0.23

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Technical Director Peerawut Chaikeenee **Analyst(s)** P. Chaikeenee / S. Watson

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COC 220968

		Pax River 111 01-26-12		
sample #		description	location	photos
PAX 111 B/	10	white 2x2 ceiling tile	Room 94 (men's lav)	
PAX 111 B/	11	white caulking along windows/ac unit	Room 94 (men's lav)	
PAX 111 B/	12	white wall board and plaster	Room 94 (men's lav)	
PAX 111 B/	13	black expansion sealant along edge of flooring	hangar	46
PAX 111 B/	14	cementitious material on floor	hangar	47
PAX 111 B/	15	yellow PI from pipe end	Room 100	51
PAX 111 B/	16	residual PI around metal pipe	Room 100	49-50
PAX 111 B/	17	glue/mastic behind cove	stairwell	54
PAX 111 B/	18	light gray w/ black flecks floor tile & yellow mastic	stairwell	54
PAX 111 B/	19	blue cove and yellow mastic	stairwell	54
PAX 111 B/	20	PI and wrap	electrical room	55-66
PAX 111 B/	21	PI and wrap from mudded elbow	electrical room	55-66
PAX 111 B/	22	green expansion sealant around water fountain pipe	near Room 114	70
PAX 111 B/	23	cove and mastic	2nd stairwell	73-74
PAX 111 B/	24	floor tile and mastic	2nd stairwell	73-74
PAX 111 B/	25	ceiling tile	2nd stairwell	74
PAX 111 B/	26	caulk along floor at bottom of back doors	2nd stairwell	74
PAX 111 B/	27	floor tile and mastic (bottom layer)	Room 118	75
PAX 111 B/	28	dark brown floor tile and mastic (top layer)	Room 118	75
PAX 111 B/	29	wall plaster and paper layer	Room 118	79
PAX 111 B/	30	yellow PI along pipe	hangar	89
PAX 111 B/	31	black expansion sealant along edge of flooring	hangar	87
PAX 111 B/	32	beige floor tile w/ black dots and black mastic	Room 135 (Tool Room)	91-94
PAX 111 B/	33	leveling compound and black mastic	Room 135 (Tool Room)	91-94
PAX 111 B/	34	beige floor tile w/ black dots and black mastic	Room 135 (Tool Room)	91-94
PAX 111 B/	35	dark gray carpet & yellow mastic	Room 135 (Tool Room)	91-94
PAX 111 B/	36	dark gray carpet & yellow mastic	Room 135 (Tool Room)	91-94
PAX 111 B/	37	ceiling tile (large and small dot)	Room 135 (Tool Room)	91-94
PAX 111 B/	38	ceiling tile (large and small dot)	Room 135 (Tool Room)	91-94
PAX 111 B/	39	dark gray cove and mastic	Room 135A (Tool Room)	
PAX 111 B/	40	dark gray cove and mastic	Room 135A (Tool Room)	
PAX 111 B/	41	PI	Room 133	96-103
PAX 111 B/	42	mudded joint	Room 133	96-103
PAX 111 B/	43	expansion material in wall	hangar	107
PAX 111 B/	44	black foam from compressed air dryer	hangar	108
PAX 111 B/	45	red cove and mastic	stairwell	110
PAX 111 B/	46	red firestop material	stairwell	112
PAX 111 B/	47	Floor tile and mastic	stairwell	
PAX 111 B/	48	white caulk at rain leader	exterior corner	122
PAX 111 B/	49	gray expansion material on wall	exterior	127
PAX 111 B/	50	black expansion material	exterior	129
PAX 111 B/	51	white window caulk	exterior	131
PAX 111 B/	52	white window caulk	exterior	131
PAX 111 B/	53	black expansion foam along bay seam	exterior	132
PAX 111 B/	54	black w/ gray flecks expansion foam along bay seam	exterior	132-133

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CHAIN OF CUSTODY

(Please Refer To This Number For Inquires) 220968

Mailing/Billing Information:
1. Client Name: Global Consulting Inc
2. Address 1: 1818 NY Ave NE 111
3. Address 2:
4. Address 3: DC 20002
5. Phone #: 804 3073752 Fax #:

Submittal Information:
1. Job Name: Jacobs Pax River 111 Hangar
2. Job Location: Pax River
3. Job #: R0499 P.O. #:
4. Contact Person: Judi Darnell @ phone # 804 3073752
5. Submitted by: Signature:

Reporting Info (Results provided as soon as technically feasible). If no TAT/Reporting Info is provided, AMA will assign defaults of 5-Day and email/fax to contacts on file.

AFTER HOURS (must be pre-scheduled)	NORMAL BUSINESS HOURS	REPORT TO:
❑ Immediate Date Due:	❑ Immediate ❑ 3 Day	☒ Include COC/Field Data Sheets with Report
❑ 24 Hours Time Due:	❑ Next Day ☒ 5 Day +	❑ Email: judi.darnell@yahoo.com
Comments:	❑ 2 Day Date Due: 2/3/12	❑ Fax:
	❑ Results Required By Noon	❑ Verbals:

Asbestos Analysis
*PCM Air – Please Indicate Filter Type:
- ❑ NIOSH 7400 (QTY)
- ❑ Fiberglass (QTY)

TEM Air* – Please Indicate Filter Type:
- ❑ AHERA (QTY)
- ❑ NIOSH 7402 (QTY) NEM
- ❑ Other (specify) (QTY)

PLM Bulk
- ☒ EPA 600 – Visual Estimate 15 (62) (QTY)
- ❑ EPA Point Count (QTY)
- ❑ NY State Friable 198.1 (QTY)
- ❑ Grav. Reduction ELAP 198.6 (QTY)
- ❑ Other (specify) (QTY)

MISC
- ❑ Vermiculite
- ❑ Asbestos Soil PLM (Qual) PLM (Quan) PLM/TEM (Qual) PLM/TEM (Quan)

*It is recommended that blank samples be submitted with all air and surface samples

TEM Bulk
- ❑ ELAP 198.4/Chatfield (QTY)
- ❑ NY State PLM/TEM (QTY)
- ❑ Residual Ash (QTY)

TEM Dust*
- ❑ Qual. (pres/abs) Vacuum/Dust (QTY)
- ❑ Quan. (s/area) Vacuum D5755-95 (QTY)
- ❑ Quan. (s/area)Dust D6480-99 (QTY)

TEM Water
- ❑ Qual. (pres/abs) (QTY)
- ❑ ELAP 198.2/EPA 100.2 (QTY)
- ❑ EPA 100.1 (QTY)

☒ All samples received in good condition unless otherwise noted.
(TEM Water samples °C)

If field data sheets are submitted, there is no need to complete bottom section.

Metals Analysis
- ❑ Pb Paint Chip (QTY)
- ❑ *Pb Dust Wipe (wipe type) (QTY)
- ❑ *Pb Air (QTY)
- ❑ Pb Soil/Solid (QTY)
- ❑ Pb TCLP (QTY)
- ❑ Drinking Water ❑ Pb (QTY) ❑ Cu (QTY) ❑ As (QTY)
- ❑ Waste Water ❑ Pb (QTY) ❑ Cu (QTY) ❑ As (QTY)
- ❑ Pb Furnace (Media) (QTY)

Fungal Analysis
Collection Apparatus for Spore Traps/Air Samples:
Collection Media
- ❑ *Spore-Trap (QTY)
- ❑ *Surface Swab (QTY)
- ❑ *Surface Tape (QTY)
- ❑ Other (Specify) (QTY)
- ❑ Surface Vacuum Dust (QTY)
- ❑ Culturable ID Genus (Media) (QTY)
- ❑ Culturable ID Species (Media) (QTY)

CLIENT ID #	SAMPLE INFORMATION SAMPLE LOCATION/ ID	DATE/ TIME	VOL (L)/ Wipe Area	ANALYSIS TEM	PCM	PLM	LEAD	MOLD	MATRIX AIR	BULK	DUST	WATER AND OTHER	SPORE TRAP	TAPE	SWAB	CLIENT CONTACT (LABORATORY STAFF ONLY)
see attached	1-26-12					X				X						Date/Time: Contact: By:
																Date/Time: Contact: By:
																Date/Time: Contact: By:

LABORATORY STAFF ONLY: (CUSTODY)
1. Date/Time RCVD: 1/27/12 @ 1210 Via: DIR By (Print): NRM Sign:
2. Date/Time Analyzed: 2/3/12 @ By (Print): Peerawut Chaikeeree / S. Watson Sign: P. Chai
3. Results Reported To: Via: E-mail Date: 2/3/12 Time: Initials: PESW
4. Comments:

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Fax: (202) 832-1434 Phone: (202) 832-1433
Project: **PR NAS HANGER 1**

Customer ID: GLOC62
Customer PO: R0499-002
Received: 02/03/12 3:00 PM
EMSL Order: 191201067

EMSL Proj:
Analysis Date: 2/5/2012

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/55-wallboard *191201067-0001*	WALL BOARD BY BACK DOOR GREEN PAINT	Brown/Green/Beige Fibrous Heterogeneous	30%	Cellulose	20%	Non-fibrous (other)	**None Detected**
					50%	Gypsum	
PAX111-B/55-Joint Compound *191201067-0001A*	WALL BOARD BY BACK DOOR GREEN PAINT	White/Green Non-Fibrous Heterogeneous			80%	Non-fibrous (other)	**None Detected**
					20%	Mica	
PAX111-B/56-wallboard *191201067-0002*	WALL BOARD IN RIGHT CORNER GREEN PAINT	Brown/Gray Fibrous Heterogeneous	40%	Cellulose	20%	Non-fibrous (other)	**None Detected**
					40%	Gypsum	
PAX111-B/56-Joint Compound *191201067-0002A*	WALL BOARD IN RIGHT CORNER GREEN PAINT	White/Green Non-Fibrous Heterogeneous			82%	Non-fibrous (other)	**None Detected**
					18%	Mica	
PAX111-B/57 *191201067-0003*	WALL BOARD IN CHANGING ROOM BLUE PAINT	Brown/Gray/Blue Fibrous Heterogeneous	35%	Cellulose	15%	Non-fibrous (other)	**None Detected**
					50%	Gypsum	
			wallboard only				

Initial report from 02/06/2012 11:07:46

Analyst(s)

Emily Baker (58)

Joe Centifonti, Laboratory Manager
or other approved signatory

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/58 *191201067-0004*	RESIDUAL PI AROUND METAL PIPE	Brown/Tan/White Fibrous Heterogeneous	20%	Synthetic	75%	Non-fibrous (other)	**None Detected**
			5%	Cellulose			
PAX111-B/59 *191201067-0005*	WHITE SEALANT USED ON FIBROUS INSULATION	Yellow Fibrous Heterogeneous	20%	Cellulose	45%	Non-fibrous (other)	**None Detected**
			15%	Synthetic			
			5%	Fibrous (other)			
			15%	Glass			
PAX111-B/60 *191201067-0006*	WHITE PI ON LARGE ELBOW	Brown/Tan Fibrous Heterogeneous	25%	Cellulose	75%	Non-fibrous (other)	**None Detected**
PAX111-B/61 *191201067-0007*	WHITE PI	Tan/White Fibrous Heterogeneous	40%	Cellulose	30%	Non-fibrous (other)	**30% Chrysotile**
PAX111-B/62 *191201067-0008*	WHITE PI	White Fibrous Heterogeneous	50%	Cellulose	10%	Non-fibrous (other)	**40% Chrysotile**
PAX111-B/63 *191201067-0009*	GRAY CEMENT. MAT. IN WALL NEAR PIPE AS LEAVES LOFT	Brown/Gray Fibrous Heterogeneous			65%	Non-fibrous (other)	**35% Chrysotile**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/64 *191201067-0010*	PI 1ST BOTTOM LAYER OF PIPE LEAVING BLDG	Brown/Gray Fibrous Heterogeneous			70%	Non-fibrous (other)	**30% Chrysotile**
PAX111-B/65 *191201067-0011*	MIDDLE WOOLY LAYER OF PIPE LEAVING BLDG	Brown/Gray/White Fibrous Heterogeneous	35% 55%	Synthetic Cellulose	10%	Non-fibrous (other)	**None Detected**
PAX111-B/66 *191201067-0012*	CLOTH LAYER ATOP PIPE LEAVING BLDG	Brown/Black Fibrous Heterogeneous	60% 15%	Cellulose Synthetic	25%	Non-fibrous (other)	**None Detected**
PAX111-B/67 *191201067-0013*	BROWN FIBROUS BOARDS AT EDGE OF BOILER HOUSE	Tan/White Fibrous Heterogeneous	90%	Cellulose	10%	Non-fibrous (other)	**None Detected**
PAX111-B/68 *191201067-0014*	BROWN FIBROUS BOARDS AT EDGE OF BOILER HOUSE	Brown Fibrous Heterogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/69 *191201067-0015*	BROWN FIBROUS BOARDS AT EDGE OF BOILER HOUSE	Brown/Cream Fibrous Heterogeneous	85%	Cellulose	15%	Non-fibrous (other)	**None Detected**
PAX111-B/70 *191201067-0016*	WHITE SEALANT ALONG PIPE OUTSIDE OF BLDG	Gray/White Non-Fibrous Heterogeneous	6%	Glass	94%	Non-fibrous (other)	**None Detected**
PAX111-B/71 *191201067-0017*	WHITE 204 CEILING TILE WORM & PIN	Brown/White Fibrous Heterogeneous	70% 15%	Cellulose Glass	5% 10%	Non-fibrous (other) Perlite	**None Detected**
PAX111-B/72-Floor Tile *191201067-0018*	TAN TILE UNDER CARPET NEAR ROOM 204	Brown Non-Fibrous Heterogeneous			98%	Non-fibrous (other)	**2% Chrysotile**
PAX111-B/72-Mastic *191201067-0018A*	TAN TILE UNDER CARPET NEAR ROOM 204	Black Non-Fibrous Heterogeneous	2% 2%	Glass Synthetic	91%	Non-fibrous (other)	**5% Chrysotile**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/73-Cove Base *191201067-0019*	DARK GRAY COVE & MASTIC	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
PAX111-B/73-Mastic *191201067-0019A*	DARK GRAY COVE & MASTIC	Brown/White/Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
PAX111-B/74-Tile *191201067-0020*	RED TILE UNDER GREEN CARPET	Red Fibrous Heterogeneous	8%	Cellulose	92%	Non-fibrous (other)	**None Detected**
PAX111-B/74-Mastic *191201067-0020A*	RED TILE UNDER GREEN CARPET	Gray/Yellow Non-Fibrous Heterogeneous			85% 15%	Non-fibrous (other) Quartz	**None Detected**
PAX111-B/75-Linoleum *191201067-0021*	BEIGE LINOLEUM	White Fibrous Heterogeneous	15% 25%	Glass Cellulose	60%	Non-fibrous (other)	**None Detected**
PAX111-B/75-Mastic *191201067-0021A*	BEIGE LINOLEUM	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/76-Floor Tile *191201067-0022*	BROWNISH RED TILE BLACK MASTIC	Brown Non-Fibrous Heterogeneous			98%	Non-fibrous (other)	**2% Chrysotile**
PAX111-B/76-Mastic *191201067-0022A*	BROWNISH RED TILE BLACK MASTIC	Black Non-Fibrous Heterogeneous	2%	Synthetic	95%	Non-fibrous (other)	**3% Chrysotile**
PAX111-B/77-Floor Tile *191201067-0023*	TAN TILE BLACK MASTIC	Brown Non-Fibrous Heterogeneous			98%	Non-fibrous (other)	**2% Chrysotile**
PAX111-B/77-Mastic *191201067-0023A*	TAN TILE BLACK MASTIC	Black Non-Fibrous Heterogeneous	3%	Synthetic	90%	Non-fibrous (other)	**7% Chrysotile**
PAX111-B/78 *191201067-0024*	RED FIRESTOP MATERIAL	White/Red Fibrous Heterogeneous	10%	Synthetic	90%	Non-fibrous (other)	**None Detected**
PAX111-B/79 *191201067-0025*	WALL MATERIAL	Gray/Tan Fibrous Heterogeneous	20%	Cellulose	10% 70%	Non-fibrous (other) Gypsum	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/80-Floor Tile *191201067-0026*	BROWNISH RED TILE	Brown Non-Fibrous Heterogeneous			98%	Non-fibrous (other)	**2% Chrysotile**
PAX111-B/80-Mastic *191201067-0026A*	BROWNISH RED TILE	Black Fibrous Heterogeneous	2%	Synthetic	92%	Non-fibrous (other)	**6% Chrysotile**
PAX111-B/81-Floor Tile *191201067-0027*	LIGHT GREEN/GRAY TILE	Gray/White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
PAX111-B/81-Mastic *191201067-0027A*	LIGHT GREEN/GRAY TILE	Brown/Tan/Yellow Fibrous Heterogeneous	12% 7%	Synthetic Cellulose	81%	Non-fibrous (other)	**None Detected**
PAX111-B/82-Flooring *191201067-0028*	WHITE FLOORING MATERIAL	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/82-Mastic *191201067-0028A*	WHITE FLOORING MATERIAL	Yellow Fibrous Heterogeneous	10% 5%	Cellulose Synthetic	85%	Non-fibrous (other)	**None Detected**
PAX111-B/83 *191201067-0029*	WHITE PI ON 12" PIPE IN CEILING	White Fibrous Heterogeneous			85%	Non-fibrous (other)	**15% Chrysotile**
PAX111-B/84-Floor Tile *191201067-0030*	RED T ILE W/BROWN CANVAS	Red Fibrous Heterogeneous	18%	Cellulose	82%	Non-fibrous (other)	**None Detected**
PAX111-B/84-Canvas *191201067-0030A*	RED T ILE W/BROWN CANVAS	Brown Fibrous Heterogeneous	100%	Cellulose	0%	Non-fibrous (other)	**None Detected**
PAX111-B/85-Floor Tile *191201067-0031*	LIGHT BLUE W/DARK BLUE FLECKS FT/BLACK MASTIC	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/85-Mastic *191201067-0031A*	LIGHT BLUE W/DARK BLUE FLECKS FT/BLACK MASTIC	Gray/Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
PAX111-B/86 *191201067-0032*	2X2 WHITE FIBROUS CEILING TILE	Brown/White Fibrous Heterogeneous	60% 15%	Cellulose Glass	10% 15%	Non-fibrous (other) Perlite	**None Detected**
PAX111-B/87-Floor Tile *191201067-0033*	DARK RED & TAN FLOOR TILE	Red Non-Fibrous Heterogeneous			92%	Non-fibrous (other)	**8% Chrysotile**
PAX111-B/87-Mastic *191201067-0033A*	DARK RED & TAN FLOOR TILE	Black Non-Fibrous Heterogeneous	4%	Cellulose	96%	Non-fibrous (other)	**<1% Chrysotile**
PAX111-B/88-Floor Tile *191201067-0034*	BROWN FT W/ORANGE/WHITE FLECKS & MASTIC	Brown Non-Fibrous Heterogeneous			98%	Non-fibrous (other)	**2% Chrysotile**

Initial report from 02/06/2012 11:07:46

Analyst(s)

Emily Baker (58)

Joe Centifonti, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Carl Kohlmeyer**
Global Consulting, Inc.
1818 New York Avenue N.E.
Suite 111
Washington, DC 20002

Fax: (202) 832-1434 Phone: (202) 832-1433
Project: **PR NAS HANGER 1**

Customer ID: GLOC62
Customer PO: R0499-002
Received: 02/03/12 3:00 PM
EMSL Order: 191201067

EMSL Proj:
Analysis Date: 2/5/2012

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
PAX111-B/88-Mastic *191201067-0034A*	BROWN FT W/ORANGE/WHITE FLECKS & MASTIC	Yellow Non-Fibrous Heterogeneous	2%	Synthetic	98%	Non-fibrous (other)	**None Detected**
PAX111-B/89 *191201067-0035*	2X2 WHITE FIBROUS CEILING TILE	Gray/White Fibrous Heterogeneous	75% 10%	Cellulose Glass	0% 15%	Non-fibrous (other) Perlite	**None Detected**
PAX111-B/90-Floor Tile *191201067-0036*	GREEN FT & YELLOW MASTIC	Green Non-Fibrous Heterogeneous			87%	Non-fibrous (other)	**13% Chrysotile**
PAX111-B/90-Mastic *191201067-0036A*	GREEN FT & YELLOW MASTIC	Black Non-Fibrous Heterogeneous			97%	Non-fibrous (other)	**3% Chrysotile**
PAX111-B/91-Cove Base *191201067-0037*	BEIGE COVE & YELLOW MASTIC	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
PAX111-B/91-Mastic *191201067-0037A*	BEIGE COVE & YELLOW MASTIC	Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

Initial report from 02/06/2012 11:07:46

Analyst(s)

Emily Baker (58)

Joe Centifonti, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

EMSL Analytical, Inc.
10768 Baltimore Avenue, Beltsville, MD 20705
Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Carl Kohlmeyer**
Global Consulting, Inc.
1818 New York Avenue N.E.
Suite 111
Washington, DC 20002

Fax: (202) 832-1434 Phone: (202) 832-1433
Project: **PR NAS HANGER 1**

Customer ID: GLOC62
Customer PO: R0499-002
Received: 02/03/12 3:00 PM
EMSL Order: 191201067

EMSL Proj:
Analysis Date: 2/5/2012

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

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**% Type**
PAX111-B/92-Floor Tile *191201067-0038*	LIGHT BLUE W/DK.BLUE FLECKS FT/BLACK MASTIC	White Non-Fibrous Heterogeneous			95% Non-fibrous (other)	**5% Chrysotile**
PAX111-B/92-Mastic *191201067-0038A*	LIGHT BLUE W/DK.BLUE FLECKS FT/BLACK MASTIC	Black Fibrous Heterogeneous	10% 5%	Cellulose Synthetic	77% Non-fibrous (other)	**8% Chrysotile**
PAX111-B/93-Floor Tile *191201067-0039*	BROWN FT W/ORANGE/WHITE FLECKS & MASTIC	Brown Non-Fibrous Heterogeneous			98% Non-fibrous (other)	**2% Chrysotile**
PAX111-B/93-Mastic *191201067-0039A*	BROWN FT W/ORANGE/WHITE FLECKS & MASTIC	Black Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**

Initial report from 02/06/2012 11:07:46

Analyst(s)
Emily Baker (58)

Joe Centifonti, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0

THIS IS THE LAST PAGE OF THE REPORT.

EMSL ANALYTICAL, INC.

Asbestos Lab Services Chain of Custody

EMSL Order Number*(Lab Use Only):*

Beltsville, MD
10768 Baltimore Avenue
Beltsville, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: Global Consulting, Inc.	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 1818 New York Avenue, NE Suite 111	
City/State/Zip: Washington, DC 20002	
Report To (Name): Carl Kohlmeyer	**Fax:** 2028321434
Telephone: 2028321433	**Email Address:** carl.kohlmeyer@verizon.net
Project Name/Number: PR NAS Hanger 1	
Please Provide Results: Email **Purchase Order:** R0499-002	**State Samples Taken:** MD

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 ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT (AHERA only)**
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Filter Pore Size (Air Samples):** ☐ **0.8µm** ☐ **0.45µm**

Samplers Name: **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
PAX111-55	See Attached List		
Through			
PAX111-93			

Client Sample # (s): PAX111-055 - PAX111-093 **Total # of Samples:** 38

Relinquished (Client): **Date:** **Time:**

Received (Lab): **Date:** **Time:**

Comments/Special Instructions:

Controlled Document – Asbestos Lab Services COC – A1.0 – 11/23/2009

Asbestos Lab Services Chain of Custody

EMSL Order Number*(Lab Use Only):*

Beltsville, MD
10768 Baltimore Avenue
Beltsville, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled

Comments/Special Instructions:

Controlled Document – Asbestos Lab Services COC – A1.0 – 11/23/2009

Page ___ of ___ Pages

ATTACHMENT 2 – LBP RESULTS

Miscellaneous Architectural and Engineering Services Contract
Patuxent River Naval Air Station
Hazardous Materials Survey
Hanger 111 Life Extension
Job Order Number 195534502011/KH3P2

TABLE 3 – Lead Based Paint Results										
Reading No	Type	Units	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	FLOOR	ROOM	Results
525	SHUTTER	cps								
526	PAINT	mg / cm ^2			CALIBRATE					Positive
527	PAINT	mg / cm ^2			CALIBRATE					Negative
528	PAINT	mg / cm ^2			CALIBRATE					Negative
532	PAINT	mg / cm ^2	DOOR CASE	WOOD	D	DETERIORATED	BLUE	SECOND	203	Negative
533	PAINT	mg / cm ^2	DOOR JAMB	WOOD	D	DETERIORATED	BLUE	SECOND	203	Positive
534	PAINT	mg / cm ^2	DOOR	WOOD	D	INTACT	BLUE	SECOND	203	Negative
535	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	BLUE	SECOND	203	Positive
537	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	INTACT	BLUE	SECOND	203	Positive
538	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	BLUE	SECOND	203	Negative
539	PAINT	mg / cm ^2	WINDOW WELL	WOOD	A	DETERIORATED	WHITE	SECOND	203	Positive
540	PAINT	mg / cm ^2	WINDOW CASE	WOOD	C	INTACT	BLUE	SECOND	204	Positive
541	PAINT	mg / cm ^2	WINDOW SASH	WOOD	C	INTACT	BLUE	SECOND	204	Positive
542	PAINT	mg / cm ^2	WINDOW SILL	WOOD	C	INTACT	BLUE	SECOND	204	Positive
543	PAINT	mg / cm ^2	AC UNIT FRAME	WOOD	C	INTACT	BROWN	SECOND	204	Negative
547	PAINT	mg / cm ^2	PIPE	METAL	C	DETERIORATED	BROWN	SECOND	204	Positive
549	PAINT	mg / cm ^2	DOOR CASE	WOOD	D	INTACT	BLUE	SECOND	204	Negative
550	PAINT	mg / cm ^2	DOOR JAMB	WOOD	D	INTACT	BLUE	SECOND	204	Negative
551	PAINT	mg / cm ^2	DOOR	WOOD	D	INTACT	BLUE	SECOND	204	Negative
552	PAINT	mg / cm ^2	DOOR	WOOD	C	DETERIORATED	BLUE	SECOND	204 A	Positive
553	PAINT	mg / cm ^2	DOOR JAMB	WOOD	C	DETERIORATED	BLUE	SECOND	204 A	Positive
554	PAINT	mg / cm ^2	DOOR	WOOD	C	INTACT	BLUE	SECOND	204 A	Negative
555	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	BLUE	SECOND	204 A	Positive
556	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	INTACT	BLUE	SECOND	204 A	Positive

Miscellaneous Architectural and Engineering Services Contract
Patuxent River Naval Air Station
Hazardous Materials Survey
Hanger 111 Life Extension
Job Order Number 195534502011/KH3P2

557	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	BLUE	SECOND	204 A	Positive
558	PAINT	mg / cm ^2	WINDOW WELL	WOOD	A	DETERIORATED	WHITE	SECOND	204 A	Positive
559	PAINT	mg / cm ^2	WINDOW WELL	WOOD	A	DETERIORATED	WHITE	SECOND	204 A	Positive
560	PAINT	mg / cm ^2	DOOR	WOOD	C	INTACT	BLUE	SECOND	208	Negative
561	PAINT	mg / cm ^2	DOOR JAMB	WOOD	C	INTACT	BLUE	SECOND	208	Negative
562	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	BLUE	SECOND	208	Negative
563	PAINT	mg / cm ^2	STAIR TRED	WOOD	C	DETERIORATED	VARNISH	SECOND	208	Negative
564	PAINT	mg / cm ^2	STAIR RISER	WOOD	C	DETERIORATED	VARNISH	SECOND	208	Negative
565	PAINT	mg / cm ^2	HAND RAIL	WOOD	C	INTACT	VARNISH	SECOND	208	Negative
566	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	SECOND	BATHROOM 210	Negative
567	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	SECOND	BATHROOM 210	Negative
568	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	SECOND	BATHROOM 210	Negative
569	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	SECOND	BATHROOM 210	Negative
570	PAINT	mg / cm ^2	BASEBOARD	CONCRETE	A	DETERIORATED	BLUE	SECOND	BATHROOM 210	Negative
571	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	BLUE	SECOND	BATHROOM 210	Negative
572	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	BLUE	SECOND	BATHROOM 210	Positive
573	PAINT	mg / cm ^2	WINDOW APRON	WOOD	A	INTACT	BLUE	SECOND	BATHROOM 210	Positive
574	PAINT	mg / cm ^2	RADIATOR	METAL	A	DETERIORATED	WHITE	SECOND	BATHROOM 210	Positive
575	PAINT	mg / cm ^2	BASEBOARD	DRYWALL	C	INTACT	WHITE	SECOND	BATHROOM 210	Negative
576	PAINT	mg / cm ^2	PIPE	METAL	A	INTACT	WHITE	SECOND	BATHROOM 210	Positive
577	PAINT	mg / cm ^2	THRESHOLD	CONCRETE	CENTER	DETERIORATED	BLACK	SECOND	BATHROOM 210	Negative
578	PAINT	mg / cm ^2	DOOR	WOOD	CENTER	INTACT	BLUE	SECOND	BATHROOM	Positive

Miscellaneous Architectural and Engineering Services Contract
Patuxent River Naval Air Station
Hazardous Materials Survey
Hanger 111 Life Extension
Job Order Number 195534502011/KH3P2

									210	
579	PAINT	mg / cm ^2	DOOR JAMB	WOOD	CENTER	DETERIORATED	BLUE	SECOND	BATHROOM 210	Positive
580	PAINT	mg / cm ^2	DOOR CASE	WOOD	CENTER	INTACT	BLUE	SECOND	BATHROOM 210	Positive
581	PAINT	mg / cm ^2	DOOR	METAL	C	DETERIORATED	GREY	SECOND	BATHROOM 210	Negative
582	PAINT	mg / cm ^2	DOOR JAMB	METAL	C	INTACT	GREY	SECOND	BATHROOM 210	Negative
583	PAINT	mg / cm ^2	DOOR CASE	METAL	C	INTACT	GREY	SECOND	BATHROOM 210	Negative
584	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	WHITE	SECOND	214	Positive
585	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	INTACT	WHITE	SECOND	214	Positive
586	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	WHITE	SECOND	214	Negative
588	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	WHITE	SECOND	214	Positive
589	PAINT	mg / cm ^2	RADIATOR COVER	WOOD	A	DETERIORATED	WHITE	SECOND	214	Negative
590	PAINT	mg / cm ^2	BASEBOARD	WOOD	C	INTACT	WHITE	SECOND	214	Negative
592	PAINT	mg / cm ^2	WALL	WOOD PANEL	A	INTACT	WHITE	SECOND	214 A	Negative
593	PAINT	mg / cm ^2	WALL	WOOD PANEL	B	INTACT	WHITE	SECOND	214 A	Negative
594	PAINT	mg / cm ^2	WALL	WOOD PANEL	C	INTACT	WHITE	SECOND	214 A	Negative
595	PAINT	mg / cm ^2	WALL	WOOD PANEL	D	INTACT	WHITE	SECOND	214 A	Negative
596	PAINT	mg / cm ^2	WINDOW CASE	WOOD	C	INTACT	WHITE	SECOND	214 A	Negative
598	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	BLUE	SECOND	214 A	Negative
599	PAINT	mg / cm ^2	DOOR	WOOD	C	INTACT	BLUE	SECOND	214 A	Negative
600	PAINT	mg / cm ^2	DOOR JAMB	WOOD	C	INTACT	BLUE	SECOND	214 A	Negative
601	PAINT	mg / cm ^2	DOOR	WOOD	C	INTACT	BLUE	SECOND	216 A	Positive
602	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	BLUE	SECOND	216 A	Positive
603	PAINT	mg / cm ^2	DOOR JAMB	WOOD	C	INTACT	BLUE	SECOND	216 A	Positive

Miscellaneous Architectural and Engineering Services Contract
Patuxent River Naval Air Station
Hazardous Materials Survey
Hanger 111 Life Extension
Job Order Number 195534502011/KH3P2

604	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	BLUE	SECOND	216 A	Positive
605	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	BLUE	SECOND	216 A	Positive
607	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	BLUE	SECOND	216 A	Positive
608	PAINT	mg / cm ^2	RADIATOR	METAL	A	DETERIORATED	GREEN	SECOND	216 A	Positive
610	PAINT	mg / cm ^2	COLUMN	CONCRETE	A	INTACT	BROWN	SECOND	216 A	Negative
611	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	DETERIORATED	BLUE	SECOND	216	Positive
612	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	BLUE	SECOND	216	Positive
613	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	INTACT	BLUE	SECOND	216	Positive
614	PAINT	mg / cm ^2	DOOR CASE	WOOD	D	DETERIORATED	BROWN	SECOND	216	Positive
615	PAINT	mg / cm ^2	DOOR JAMB	WOOD	D	INTACT	BLUE	SECOND	216	Positive
617	PAINT	mg / cm ^2	DOOR	WOOD	D	INTACT	BLUE	SECOND	216	Negative
618	PAINT	mg / cm ^2	DOOR	WOOD	D	INTACT	BLUE	SECOND	218	Negative
619	PAINT	mg / cm ^2	DOOR JAMB	WOOD	D	INTACT	BLUE	SECOND	218	Negative
620	PAINT	mg / cm ^2	DOOR CASE	WOOD	D	INTACT	BLUE	SECOND	218	Negative
621	PAINT	mg / cm ^2	WINDOW CASE	WOOD	D	INTACT	BLUE	SECOND	218	Positive
622	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	WHITE	SECOND	218	Positive
623	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	WHITE	SECOND	218	Positive
624	PAINT	mg / cm ^2	RADIATOR	METAL	A	INTACT	WHITE	SECOND	218	Positive
626	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	SECOND	218	Negative
627	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	SECOND	218	Negative
630	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	SECOND	218	Negative
631	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	SECOND	218	Negative
632	PAINT	mg / cm ^2	WALL	DRYWALL	CENTER	INTACT	WHITE	SECOND	218	Negative
633	PAINT	mg / cm ^2	HAND RAIL	WOOD	B	INTACT	BROWN	SECOND	220	Negative
634	PAINT	mg / cm ^2	WINDOW CASE	WOOD	B	INTACT	BLUE	SECOND	222	Positive
635	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	INTACT	BLUE	SECOND	222	Positive
636	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	BLUE	SECOND	222	Positive

Miscellaneous Architectural and Engineering Services Contract
Patuxent River Naval Air Station
Hazardous Materials Survey
Hanger 111 Life Extension
Job Order Number 195534502011/KH3P2

637	PAINT	mg / cm ^2	RADIATOR	METAL	A	INTACT	WHITE	SECOND	222	Negative
638	PAINT	mg / cm ^2	RADIATOR	METAL	A	INTACT	WHITE	SECOND	222	Negative
639	PAINT	mg / cm ^2	WINDOW WELL	WOOD	A	DETERIORATED	WHITE	SECOND	222	Positive
640	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	DETERIORATED	BLUE	SECOND	222 B	Negative
641	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	BLUE	SECOND	222 B	Positive
642	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	BLUE	SECOND	222 B HD	Negative
643	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	BLUE	SECOND	222 B HD	Negative
645	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	BLUE	SECOND	222 B HD	Negative
646	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	BLUE	SECOND	222 B HD	Negative
647	PAINT	mg / cm ^2	RADIATOR	CONCRETE	C	INTACT	BLUE	SECOND	222 B HD	Positive
648	PAINT	mg / cm ^2	DOOR CASE	WOOD	A	INTACT	BLUE	SECOND	222 B HD	Positive
649	PAINT	mg / cm ^2	DOOR JAMB	WOOD	A	INTACT	BROWN	SECOND	222 B HD	Positive
650	PAINT	mg / cm ^2	DOOR	WOOD	A	INTACT	BROWN	SECOND	222 B HD	Positive
651	PAINT	mg / cm ^2	DOOR	WOOD	A	INTACT	BLUE	SECOND	222 B HD	Positive
653	PAINT	mg / cm ^2	DOOR	WOOD	A	DETERIORATED	BROWN	SECOND	222 B HD	Positive
654	PAINT	mg / cm ^2	CLOSET WALL	CONCRETE	C	INTACT	BEIGE	SECOND	222 B HD	Negative
655	PAINT	mg / cm ^2	CLOSET JAMB	WOOD	C	INTACT	BEIGE	SECOND	222 B HD	Positive
656	PAINT	mg / cm ^2	CLOSET DOOR	WOOD	C	INTACT	BEIGE	SECOND	222 B HD	Positive
657	PAINT	mg / cm ^2	CLOSET DOOR	WOOD	C	INTACT	BROWN	SECOND	222 B HD	Positive
658	PAINT	mg / cm ^2	WINDOW SILL	WOOD	CENTER	INTACT	BROWN	SECOND	222 B HD	Negative
659	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	SECOND	HALLWAY	Negative
660	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	SECOND	HALLWAY	Negative
662	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	SECOND	HALLWAY	Negative
667	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	SECOND	HALLWAY	Negative
669	PAINT	mg / cm ^2	BASEBOARD	VINYL	A	DETERIORATED	BLACK	SECOND	HALLWAY	Negative
671	PAINT	mg / cm ^2	WINDOW CASE	WOOD	C	INTACT	BLUE	SECOND	HALLWAY	Positive
672	PAINT	mg / cm ^2	WINDOW SASH	WOOD	C	INTACT	BLUE	SECOND	HALLWAY	Positive

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673	PAINT	mg / cm ^2	WINDOW SILL	WOOD	C	INTACT	BLUE	SECOND	HALLWAY	Positive
674	PAINT	mg / cm ^2	DOOR	METAL	A	INTACT	BLUE	SECOND	HALLWAY	Negative
675	PAINT	mg / cm ^2	DOOR CASE	METAL	A	INTACT	BLUE	SECOND	HALLWAY	Negative
678	PAINT	mg / cm ^2	DOOR JAMB	METAL	A	INTACT	BLUE	SECOND	HALLWAY	Negative
679	PAINT	mg / cm ^2	WALL	DRYWALL	A	INTACT	WHITE	SECOND	STAIR 1	Negative
682	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	SECOND	STAIR 1	Negative
683	PAINT	mg / cm ^2	WALL	DRYWALL	C	INTACT	WHITE	SECOND	STAIR 1	Negative
684	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	WHITE	SECOND	STAIR 1	Negative
685	PAINT	mg / cm ^2	HAND RAIL	WOOD	D	DETERIORATED	BLUE	SECOND	STAIR 1	Negative
686	PAINT	mg / cm ^2	NAVEL POST	WOOD	D	DETERIORATED	BLUE	SECOND	STAIR 1	Negative
687	PAINT	mg / cm ^2	HAND RAIL	METAL	B	INTACT	BLUE	SECOND	STAIR 1	Negative
690	PAINT	mg / cm ^2			CALIBRATE					Negative
691	PAINT	mg / cm ^2			CALIBRATE					Negative
693	PAINT	mg / cm ^2			CALIBRATE					Negative
698	SHUTTER_CAL	cps								
699	PAINT	mg / cm ^2			CALIBRATE					Negative
701	PAINT	mg / cm ^2			CALIBRATE					Positive
702	PAINT	mg / cm ^2			CALIBRATE					Negative
704	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	FIRST	120	Negative
707	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	FIRST	120	Negative
708	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	FIRST	120	Negative
709	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	FIRST	120	Negative
710	PAINT	mg / cm ^2	DOOR	METAL	C	DETERIORATED	WHITE	FIRST	120	Negative
711	PAINT	mg / cm ^2	DOOR CASE	METAL	C	DETERIORATED	WHITE	FIRST	120	Positive
712	PAINT	mg / cm ^2	DOOR JAMB	METAL	C	DETERIORATED	BLUE	FIRST	120	Positive
713	PAINT	mg / cm ^2	DOOR	METAL	C	DETERIORATED	BLUE	FIRST	120	Negative
714	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	WHITE	FIRST	120	Positive

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715	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	WHITE	FIRST	120	Positive
717	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	WHITE	FIRST	120	Positive
718	PAINT	mg / cm ^2	PIPE	METAL	A	INTACT	WHITE	FIRST	120	Positive
720	PAINT	mg / cm ^2	WALL	DRYWALL	CENTER	INTACT	WHITE	FIRST	120	Negative
721	PAINT	mg / cm ^2	BASEBOARD	VINYL	C	INTACT	YELLOW	FIRST	120	Negative
723	PAINT	mg / cm ^2	WALL	DRYWALL	A	DETERIORATED	WHITE	FIRST	118	Negative
724	PAINT	mg / cm ^2	WALL	DRYWALL	B	DETERIORATED	WHITE	FIRST	118	Negative
725	PAINT	mg / cm ^2	WALL	DRYWALL	C	DETERIORATED	WHITE	FIRST	118	Negative
726	PAINT	mg / cm ^2	WALL	DRYWALL	D	DETERIORATED	WHITE	FIRST	118	Negative
727	PAINT	mg / cm ^2	BASEBOARD	WOOD	A	DETERIORATED	WHITE	FIRST	118	Negative
728	PAINT	mg / cm ^2	PIPE	METAL	A	DETERIORATED	WHITE	FIRST	118	Negative
729	PAINT	mg / cm ^2	DOOR	METAL	A	INTACT	BLUE	FIRST	118	Negative
730	PAINT	mg / cm ^2	DOOR CASE	METAL	A	INTACT	BLUE	FIRST	118	Negative
731	PAINT	mg / cm ^2	DOOR JAMB	METAL	A	DETERIORATED	BROWN	FIRST	118	Negative
734	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	FIRST	STAIR 116	Negative
735	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	FIRST	STAIR 116	Negative
736	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	FIRST	STAIR 116	Negative
737	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	FIRST	STAIR 116	Negative
738	PAINT	mg / cm ^2	DOOR	METAL	C	INTACT	RED	FIRST	STAIR 116	Negative
739	PAINT	mg / cm ^2	DOOR CASE	METAL	C	INTACT	RED	FIRST	STAIR 116	Negative
740	PAINT	mg / cm ^2	DOOR JAMB	METAL	C	INTACT	RED	FIRST	STAIR 116	Negative
741	PAINT	mg / cm ^2	WALL	DRYWALL	A	INTACT	WHITE	FIRST	STAIR 116 ENTRANCE	Negative
742	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	WHITE	FIRST	STAIR 116 ENTRANCE	Negative
743	PAINT	mg / cm ^2	WALL	DRYWALL	C	INTACT	WHITE	FIRST	STAIR 116 ENTRANCE	Negative
744	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	WHITE	FIRST	STAIR 116 ENTRANCE	Negative

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746	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	WHITE	FIRST	STAIR 116 ENTRANCE	Negative
747	PAINT	mg / cm ^2	DOOR JAMB	WOOD	C	INTACT	WHITE	FIRST	STAIR 116 ENTRANCE	Negative
751	PAINT	mg / cm ^2	COLUMN	CONCRETE	UPPER	DETERIORATED	BEIGE	FIRST	STAIR 116 ENTRANCE	Negative
752	PAINT	mg / cm ^2	CLOSET WALL	CONCRETE	C	INTACT	GREEN	FIRST	STAIR 116 ENTRANCE	Negative
753	PAINT	mg / cm ^2	CLOSET DR CASE	WOOD	C	INTACT	WHITE	FIRST	STAIR 116 ENTRANCE	Negative
754	PAINT	mg / cm ^2	CLOSET DOOR	WOOD	C	INTACT	VARNISH	FIRST	STAIR 116 ENTRANCE	Negative
755	PAINT	mg / cm ^2	WALL	WOOD PANEL	A	INTACT	WHITE	FIRST	118 A	Negative
756	PAINT	mg / cm ^2	WALL	WOOD PANEL	B	INTACT	WHITE	FIRST	118 A	Negative
757	PAINT	mg / cm ^2	WALL	WOOD PANEL	C	INTACT	WHITE	FIRST	118 A	Negative
759	PAINT	mg / cm ^2	WALL	WOOD PANEL	D	INTACT	WHITE	FIRST	118 A	Negative
760	PAINT	mg / cm ^2	BASEBOARD	WOOD	D	INTACT	WHITE	FIRST	118 A	Negative
761	PAINT	mg / cm ^2	DOOR CASE	WOOD	B	INTACT	WHITE	FIRST	118 A	Negative
762	PAINT	mg / cm ^2	DOOR JAMB	WOOD	B	INTACT	WHITE	FIRST	118 A	Negative
763	PAINT	mg / cm ^2	DOOR	WOOD	B	INTACT	VARNISH	FIRST	118 A	Negative
765	PAINT	mg / cm ^2	WALL	DRYWALL	A	INTACT	BEIGE	FIRST	114	Negative
766	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	BEIGE	FIRST	114	Negative
767	PAINT	mg / cm ^2	WALL	DRYWALL	C	INTACT	BEIGE	FIRST	114	Negative
768	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	BEIGE	FIRST	114	Negative
769	PAINT	mg / cm ^2	DOOR	METAL	C	DETERIORATED	BEIGE	FIRST	114	Negative
770	PAINT	mg / cm ^2	DOOR	METAL	C	INTACT	BLUE	FIRST	114	Negative
771	PAINT	mg / cm ^2	DOOR JAMB	METAL	C	INTACT	BLUE	FIRST	114	Negative
772	PAINT	mg / cm ^2	CLOSET DR CASE	WOOD	C	INTACT	WHITE	FIRST	114	Negative

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773	PAINT	mg / cm ^2	CLOSET DOOR	WOOD	C	INTACT	WHITE	FIRST	114	Negative
776	PAINT	mg / cm ^2	CLOSET WALL	CONCRETE	C	INTACT	BEIGE	FIRST	114	Negative
777	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	DETERIORATED	WHITE	FIRST	114	Positive
779	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	WHITE	FIRST	114	Positive
780	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	WHITE	FIRST	114	Positive
781	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	WHITE	FIRST	114	Positive
782	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	DETERIORATED	BROWN	FIRST	114	Positive
783	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	BROWN	FIRST	114	Positive
785	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	BROWN	FIRST	114	Positive
786	PAINT	mg / cm ^2	WALL	DRYWALL	A	INTACT	BEIGE	FIRST	112	Negative
787	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	BEIGE	FIRST	112	Negative
788	PAINT	mg / cm ^2	WALL	DRYWALL	C	INTACT	BEIGE	FIRST	112	Negative
789	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	BEIGE	FIRST	112	Negative
790	PAINT	mg / cm ^2	DOOR CASE	METAL	C	DETERIORATED	BROWN	FIRST	112	Positive
792	PAINT	mg / cm ^2	DOOR	METAL	C	DETERIORATED	BROWN	FIRST	112	Negative
793	PAINT	mg / cm ^2	DOOR	METAL	C	DETERIORATED	BLUE	FIRST	112	Negative
794	PAINT	mg / cm ^2	DOOR JAMB	METAL	C	DETERIORATED	BLUE	FIRST	112	Positive
795	PAINT	mg / cm ^2	DOOR CASE	METAL	C	INTACT	BLUE	FIRST	112	Negative
796	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	DETERIORATED	BROWN	FIRST	112	Negative
797	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	DETERIORATED	BROWN	FIRST	112	Positive
798	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	BROWN	FIRST	112	Positive
799	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	BROWN	FIRST	112	Positive
800	PAINT	mg / cm ^2	DOOR JAMB	WOOD	A	DETERIORATED	BROWN	FIRST	112	Negative
803	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	BLUE	FIRST	108	Negative
804	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	BLUE	FIRST	108	Negative
806	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	BLUE	FIRST	108	Negative
807	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	BLUE	FIRST	108	Negative

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808	PAINT	mg / cm ^2	WALL	WOOD	D	INTACT	BLUE	FIRST	108	Negative
809	PAINT	mg / cm ^2	DOOR	METAL	A	DETERIORATED	BLUE	FIRST	108	Negative
810	PAINT	mg / cm ^2	DOOR CASE	METAL	A	DETERIORATED	BLUE	FIRST	108	Negative
811	PAINT	mg / cm ^2	DOOR JAMB	METAL	A	DETERIORATED	BLUE	FIRST	108	Negative
812	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	LT BLUE	FIRST	108	Positive
813	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	LT BLUE	FIRST	108	Positive
814	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	LT BLUE	FIRST	108	Positive
815	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	LT BLUE	FIRST	108 A	Negative
816	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	LT BLUE	FIRST	108 A	Negative
818	PAINT	mg / cm ^2	WALL	WOOD	C	INTACT	LT BLUE	FIRST	108 A	Negative
819	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	LT BLUE	FIRST	108 A	Negative
820	PAINT	mg / cm ^2	DOOR CASE	WOOD	D	INTACT	WHITE	FIRST	108 A	Negative
821	PAINT	mg / cm ^2	DOOR JAMB	WOOD	D	INTACT	WHITE	FIRST	108 A	Negative
822	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	BEIGE	FIRST	108 A	Positive
823	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	BEIGE	FIRST	108 A	Positive
824	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	BEIGE	FIRST	108 A	Positive
825	PAINT	mg / cm ^2	WALL	DRYWALL	A	INTACT	BEIGE	FIRST	104-106	Negative
826	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	BEIGE	FIRST	104-106	Negative
827	PAINT	mg / cm ^2	WALL	DRYWALL	C	INTACT	BEIGE	FIRST	104-106	Negative
828	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	BEIGE	FIRST	104-106	Negative
830	PAINT	mg / cm ^2	BASEBOARD	WOOD	B	INTACT	VARNISH	FIRST	104-106	Negative
831	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	BEIGE	FIRST	104-106	Positive
832	PAINT	mg / cm ^2	DOOR	METAL	C	INTACT	BEIGE	FIRST	104-106	Negative
833	PAINT	mg / cm ^2	DOOR	METAL	C	INTACT	BLUE	FIRST	104-106	Negative
834	PAINT	mg / cm ^2	DOOR CASE	METAL	C	INTACT	BLUE	FIRST	104-106	Positive
835	PAINT	mg / cm ^2	DOOR JAMB	METAL	C	INTACT	BLUE	FIRST	104-106	Positive
836	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	DETERIORATED	WHITE	FIRST	104-106	Positive

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837	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	WHITE	FIRST	104-106	Positive
838	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	WHITE	FIRST	104-106	Positive
839	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	FIRST	STAIR 102	Positive
840	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	FIRST	STAIR 102	Positive
841	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	FIRST	STAIR 102	Positive
843	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	FIRST	STAIR 102	Positive
844	PAINT	mg / cm ^2	DOOR	METAL	A	INTACT	RED	FIRST	STAIR 102	Negative
845	PAINT	mg / cm ^2	DOOR CASE	METAL	A	INTACT	RED	FIRST	STAIR 102	Negative
846	PAINT	mg / cm ^2	DOOR JAMB	METAL	A	INTACT	RED	FIRST	STAIR 102	Negative
847	PAINT	mg / cm ^2	DOOR CASE	WOOD	CENTER	DETERIORATED	BLUE	FIRST	STAIR 102	Positive
848	PAINT	mg / cm ^2	DOOR JAMB	WOOD	CENTER	DETERIORATED	BLUE	FIRST	STAIR 102	Positive
849	PAINT	mg / cm ^2	HAND RAIL	WOOD	B	INTACT	BLUE	FIRST	STAIR 102	Negative
850	PAINT	mg / cm ^2	NAVEL POST	WOOD	B	INTACT	BLUE	FIRST	STAIR 102	Negative
851	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	BLUE	FIRST	STAIR 102	Positive
852	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	DETERIORATED	BLUE	FIRST	STAIR 102	Positive
853	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	DETERIORATED	BLUE	FIRST	STAIR 102	Positive
854	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	FIRST	100	Negative
855	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	WHITE	FIRST	100	Negative
856	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	FIRST	100	Negative
857	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	FIRST	100	Negative
859	PAINT	mg / cm ^2	DOOR CASE	CONCRETE	C	DETERIORATED	YELLOW	FIRST	100	Positive
860	PAINT	mg / cm ^2	DOOR	CONCRETE	C	DETERIORATED	GREY	FIRST	100	Negative
861	PAINT	mg / cm ^2	DOOR	CONCRETE	C	INTACT	BLUE	FIRST	100	Negative
862	PAINT	mg / cm ^2	DOOR JAMB	CONCRETE	C	INTACT	BLUE	FIRST	100	Positive
863	PAINT	mg / cm ^2	DOOR CASE	CONCRETE	C	INTACT	BLUE	FIRST	100	Positive
864	PAINT	mg / cm ^2	PIPE	METAL	D	DETERIORATED	WHITE	FIRST	100	Positive
866	PAINT	mg / cm ^2	WALL	DRYWALL	A	INTACT	WHITE	FIRST	98	Negative

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867	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	WHITE	FIRST	98	Negative
868	PAINT	mg / cm ^2	WALL	DRYWALL	C	INTACT	WHITE	FIRST	98	Negative
869	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	WHITE	FIRST	98	Negative
870	PAINT	mg / cm ^2	DOOR	WOOD	C	INTACT	WHITE	FIRST	98	Negative
871	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	WHITE	FIRST	98	Negative
872	PAINT	mg / cm ^2	DOOR JAMB	WOOD	C	INTACT	WHITE	FIRST	98	Negative
873	PAINT	mg / cm ^2	BASEBOARD	WOOD	C	INTACT	WHITE	FIRST	98	Negative
874	PAINT	mg / cm ^2	FLOOR	CONCRETE	LOWER	DETERIORATED	GREY	FIRST	98	Negative
875	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	WHITE	FIRST	98	Positive
876	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	INTACT	WHITE	FIRST	98	Positive
877	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	WHITE	FIRST	98	Positive
878	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	BEIGE	FIRST	94	Negative
879	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	BEIGE	FIRST	94	Negative
880	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	BEIGE	FIRST	94	Negative
881	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	BEIGE	FIRST	94	Negative
882	PAINT	mg / cm ^2	DOOR	METAL	C	INTACT	GREY	FIRST	94	Negative
883	PAINT	mg / cm ^2	DOOR JAMB	WOOD	C	INTACT	GREY	FIRST	94	Negative
884	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	GREY	FIRST	94	Negative
885	PAINT	mg / cm ^2	PIPE	METAL	A	INTACT	BEIGE	FIRST	94	Positive
886	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	WHITE	FIRST	94	Positive
887	PAINT	mg / cm ^2	WINDOW SASH	WOOD	A	INTACT	WHITE	FIRST	94	Positive
888	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	WHITE	FIRST	94	Positive
889	PAINT	mg / cm ^2	FLOOR	CONCRETE	LOWER	INTACT	BEIGE	FIRST	94	Negative
890	PAINT	mg / cm ^2	AC FRAME	WOOD	A	INTACT	WHITE	FIRST	94	Negative
893	PAINT	mg / cm ^2			CALIBRATE					Positive
895	PAINT	mg / cm ^2			CALIBRATE					Negative
896	PAINT	mg / cm ^2			CALIBRATE					Negative

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897	SHUTTER_CAL	cps								
898	PAINT	mg / cm ^2			CALIBRATE					Positive
899	PAINT	mg / cm ^2			CALIBRATE					Negative
901	PAINT	mg / cm ^2			CALIBRATE					Negative
902	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	LT GREEN	SECOND	240	Negative
903	PAINT	mg / cm ^2	WALL	DRYWALL	A	INTACT	LT GREEN	SECOND	240	Negative
904	PAINT	mg / cm ^2	WALL	DRYWALL	C	INTACT	LT GREEN	SECOND	240	Negative
905	PAINT	mg / cm ^2	WALL	DRYWALL	D	INTACT	LT GREEN	SECOND	240	Negative
906	PAINT	mg / cm ^2	BASEBOARD	WOOD	D	INTACT	WHITE	SECOND	240	Negative
907	PAINT	mg / cm ^2	WINDOW CASE	WOOD	A	INTACT	WHITE	SECOND	240	Negative
909	PAINT	mg / cm ^2	WINDOW SILL	WOOD	A	INTACT	WHITE	SECOND	240	Negative
910	PAINT	mg / cm ^2	WINDOW APRON	WOOD	A	INTACT	WHITE	SECOND	240	Negative
911	PAINT	mg / cm ^2	CLOSET DOOR	WOOD	D	INTACT	WHITE	SECOND	240	Negative
912	PAINT	mg / cm ^2	CLOSET DR CASE	WOOD	D	INTACT	WHITE	SECOND	240	Negative
913	PAINT	mg / cm ^2	CLOSET JAMB	WOOD	D	INTACT	WHITE	SECOND	240	Negative
914	PAINT	mg / cm ^2	CLOSET WALL	CONCRETE	D	INTACT	WHITE	SECOND	240	Negative
915	PAINT	mg / cm ^2	DOOR	WOOD	D	INTACT	WHITE	SECOND	240	Negative
916	PAINT	mg / cm ^2	DOOR CASE	METAL	D	INTACT	WHITE	SECOND	240	Negative
917	PAINT	mg / cm ^2	DOOR JAMB	METAL	D	INTACT	WHITE	SECOND	240	Negative
918	PAINT	mg / cm ^2	DOOR	METAL	D	INTACT	WHITE	SECOND	242	Negative
919	PAINT	mg / cm ^2	DOOR CASE	METAL	D	INTACT	WHITE	SECOND	242	Negative
920	PAINT	mg / cm ^2	DOOR JAMB	METAL	D	INTACT	WHITE	SECOND	242	Negative
921	PAINT	mg / cm ^2	HAND RAIL	WOOD	D	INTACT	VARNISH	SECOND	242	Negative
922	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	WHITE	SECOND	HALLWAY	Negative
923	PAINT	mg / cm ^2	WALL	DRYWALL	B	INTACT	WHITE	SECOND	HALLWAY	Negative
924	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	WHITE	SECOND	HALLWAY	Negative

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925	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	WHITE	SECOND	HALLWAY	Negative
926	PAINT	mg / cm ^2	WINDOW CASE	WOOD	D	INTACT	WHITE	SECOND	HALLWAY	Positive
927	PAINT	mg / cm ^2	WINDOW SASH	WOOD	D	INTACT	WHITE	SECOND	HALLWAY	Positive
928	PAINT	mg / cm ^2	WINDOW SILL	WOOD	C	INTACT	WHITE	SECOND	HALLWAY	Positive
929	PAINT	mg / cm ^2	DOOR	WOOD	C	INTACT	WHITE	SECOND	HALLWAY	Negative
930	PAINT	mg / cm ^2	DOOR CASE	WOOD	C	INTACT	WHITE	SECOND	HALLWAY	Negative
932	PAINT	mg / cm ^2	WALL	CONCRETE	A	INTACT	LT BLUE	SECOND	BATHROOM 244	Negative
933	PAINT	mg / cm ^2	WALL	CONCRETE	B	INTACT	LT BLUE	SECOND	BATHROOM 244	Negative
934	PAINT	mg / cm ^2	WALL	CONCRETE	C	INTACT	LT BLUE	SECOND	BATHROOM 244	Negative
936	PAINT	mg / cm ^2	WALL	CONCRETE	D	INTACT	LT BLUE	SECOND	BATHROOM 244	Negative
937	PAINT	mg / cm ^2	BASEBOARD	CONCRETE	C	DETERIORATED	BLUE	SECOND	BATHROOM 244	Negative
938	PAINT	mg / cm ^2	WINDOW CASE	METAL	C	INTACT	BLUE	SECOND	BATHROOM 244	Positive
939	PAINT	mg / cm ^2	WINDOW SILL	METAL	C	INTACT	BLUE	SECOND	BATHROOM 244	Positive
940	PAINT	mg / cm ^2	WINDOW APRON	METAL	C	INTACT	BLUE	SECOND	BATHROOM 244	Positive
941	PAINT	mg / cm ^2	WALL	DRYWALL	CENTER	INTACT	BLUE	SECOND	BATHROOM 244	Negative
942	PAINT	mg / cm ^2	DOOR	WOOD	CENTER	INTACT	BLUE	SECOND	BATHROOM 244	Negative
943	PAINT	mg / cm ^2	DOOR CASE	WOOD	CENTER	INTACT	BLUE	SECOND	BATHROOM 244	Negative
944	PAINT	mg / cm ^2	DOOR JAMB	WOOD	CENTER	INTACT	BLUE	SECOND	BATHROOM 244	Negative
945	PAINT	mg / cm ^2	DOOR	METAL	A	INTACT	BLUE	SECOND	BATHROOM 244	Negative
946	PAINT	mg / cm ^2	DOOR CASE	METAL	A	INTACT	BLUE	SECOND	BATHROOM 244	Negative
947	PAINT	mg / cm ^2	DOOR JAMB	METAL	A	INTACT	BLUE	SECOND	BATHROOM 244	Negative