

Limited Environmental Survey
Buildings Associated with Steam Lines
1709, 11B, 11G, 11H, 135, 811, 811A, 6501, 6502, 6503, 6509
and utility trestles S4 and S3
Naval Station Great Lakes
Great Lakes, Illinois

Prepared for:

Department of the Navy
Naval Station Great Lakes
Naval Facilities Engineering Command (NAVFAC), Midwest
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Prepared by:



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EDI Project No. 1602.029.01

February 9, 2012 Approved for Release By

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Gary P. Flentge, MPH, LEHP, REA
Vice President, Industrial Hygiene

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February 9, 2012

Mr. Carlo Luciano
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NAVFAC Midwest IPT
Building 1A
201 Decatur Avenue
Great Lakes, Illinois 60088

SUBJECT: Limited Environmental Survey– Buildings Associated with Steam Lines
1709, 11B, 11G, 11H, 135, 811, 811A, 6501, 6502, 6503, 6509
and utility trestles S4 and S3
Naval Station Great Lakes
Great Lakes, Illinois
EDI Project No. 1602.029.01

Dear Mr. Luciano:

Enclosed please find the Limited Environmental Survey for Buildings 1709, 11B, 11G, 11H, 135, 811, 811A, 6501, 6502, 6503, 6509 and utility trestles S4 and S3 located on the Naval Station Great Lakes in Great Lakes, Illinois, prepared by Environmental Design International inc. (EDI)

EDI performed the survey and identified and sampled suspect asbestos-containing building materials for the accessible building areas associated with Steam Lines Targeted for Demolition. Asbestos samples were submitted to a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory for analysis. Survey and laboratory results indicate that some of the suspect materials sampled contained asbestos.

EDI performed a visual inspection of building materials and collected representative samples of suspect lead painted components. The samples were submitted to an Environmental Lead Laboratory Accreditation Program (ELLAP) accredited laboratory for analysis. The paint samples did identify LBP. LBP abatement is recommended.

Please feel free to contact me at (312) 345-1400 x136 or by email at pfeeley@envdesigni.com with any comments or questions regarding EDI's investigation and this report.

Sincerely,

Environmental Design International inc.


Patricia Feeley, P.G.
Project Manager

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Executive Summary

Environmental Design International inc. (EDI) was retained by the Department of the Navy, Naval Facilities Engineering Command (NAVFAC) Midwest, under Navy Contract Number N40083-07-A-0016, BPA Call Number 0030, to perform a limited environmental survey of the Buildings: 1709, 11B, 11G, 11H, 135, 811, 811A, 6501, 6502, 6503, 6509; and utility trestles S4 and S3. The environmental survey included inspection and sampling for the presence of asbestos, lead-containing paint, lead-based paint, and other potential hazardous materials observed.

Every attempt was made to thoroughly evaluate and assess the presence and condition of suspect asbestos-containing materials (ACM), lead-based paint (LBP), lead-containing paint (LCP), and hazardous materials. Any suspect ACM, LBP, or other environmental hazards identified during renovation/demolition that are not specifically listed in this report should be thoroughly evaluated, sampled, and analyzed prior to disturbance, in accordance with applicable regulatory standards.

EDI performed a visual inspection of building materials and collected representative samples of homogeneous suspect ACM. The samples were submitted to a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for bulk analysis. Based on the visual inspection and bulk sample analysis results, the following materials were identified as ACM:

- window glazing on Building 11B;
- black roof material and seal on Building 11G;
- black mastic in Building 811;
- black mastic associated with green floor tile in Building 811;
- grey thermal system insulation (TSI) on 2" pipe fitting in Building 811;
- black/grey putty on roof vents on Building 811; and,
- Utility trestle S4 is assumed to contain asbestos based upon signage and the continuation of piping materials observed on steam lines contained in the base tunnel system. ACM in trestle S4 will be addressed in another report concerning ACM associated with the steam line tunnel system.

Any ACM that will be disturbed during planned renovation must be abated using licensed abatement contractors in accordance with federal, state and local regulations.

EDI performed a visual inspection of building materials and collected representative samples of suspect lead painted components. The samples were submitted to an Environmental Lead Laboratory Accreditation Program (ELLAP) accredited laboratory for analysis. The paint samples did identify LBP on the orange door at Building 11B and on steam line support structures (assumed to include utility trestles S3 and S4). LBP abatement is recommended for the door at Building 11B and the steam line support structures as appropriate.

EDI performed a visual survey of the Buildings 11B, 11G, 11H, 135, 1709, 6501, 6509 and 811 for potential hazardous materials. Suspect hazardous materials should be removed, handled, and disposed of or stored in accordance with applicable federal, state, and local regulations. EDI recommends that potential hazardous materials be removed prior to work on the steam lines. Proper disposal may require sampling, permitting, and proper disposal records.

1.0 Introduction

Environmental Design International inc. (EDI) was retained by the Department of the Navy, Naval Facilities Engineering Command (NAVFAC) Midwest, under Navy Contract Number N40083-07-A-0016, BPA Call Number 0030, to perform a limited environmental survey of buildings associated with the steam line distribution system targeted for demolition. Structures surveyed were Buildings: 1709, 11B, 11G, 11H, 135, 811, 811A, 6501, 6502, 6503, 6509 and utility trestles S4 and S3 at Naval Station Great Lakes in Great Lakes, Illinois. The environmental survey included inspection and sampling for the presence of ACM, LBP, LCP, and other potential hazardous materials.

The field survey was performed by Mr. Jason Janssen, Mr. Jose Aguilera, Mr. John Wellman, Mr. John Feely and Ms. Alpana Chaudhary on June 6 - 10 and 13 - 15, 2011. EDI field personnel returned to the Buildings to collect photographic documentation of the homogenous sampling areas (HSAs) on September 6, 2011. Licenses and certifications for EDI staff are provided in Appendix H.

1.1 Project Purpose and Background

The purpose of this project (based on the statement of work provided by NAVFAC) is to conduct an Environmental Survey for Buildings 1709, 11B, 11G, 11H, 135, 811, 811A, 6501, 6502, 6503, 6509, and utility trestles S4 and S3, scheduled for demolition.

The Work Plan (WP) was completed and approved by NAVFAC in May 2011 and defined the scope of activities, sampling and analysis to be conducted, and the standard health and safety procedures for completing the Environmental Survey. The quality assurance project plan (QAPP) was also included in the Work Plan. The Environmental Survey focused on survey and sampling for asbestos containing materials (ACM) and lead in paint. The attached Naval Station Great Lakes drawing (Figure 1) shows the buildings associated with this survey. EDI conducted the initial survey on June 6-15 and provided preliminary draft reports of the asbestos and lead-paint chip findings. NAVFAC requested that EDI re-format the findings and sample results to better represent the HSAs within defined buildings. EDI was provided a drawing package titled "FY-12 MILCON# 1111695 Naval Station Great Lakes P-816 Steam Decentralization B-11" to review during the revisit on September 6, 2011. Drawings of the buildings were provided after the initial survey.

1.2 Building Descriptions

EDI was provided a Naval Station Great Lakes Power Plant drawing dated October 2010 depicting the buildings associated with the steam lines targeted for demolition. The buildings surveyed included: brick buildings 811 and 811A; bridges S3 and S4; small concrete buildings 11B, 11G, 11H, (not building 11); metal building 6503; storage tank 6509; storage building 135; lean-to (assumed to be Building 1709, located south of Building 135); ammonia storage tank 6501 and associated pump house 6502. Suspect ACM from each building was sampled, unless

the material was the same as previously observed materials. Some buildings were visually inspected and did not have materials suspect for ACM.

1.3 Safety

Building materials were sampled from floor level or with the use of a small (A frame) ladder. Paint chip samples were collected from ground level or with use of a small ladder. The HASP was provided in the WP dated May 2011.

Standard work consisted of the visual survey and sampling activities and was performed in a modified level D. Level C PPE was used for asbestos sampling, inclusive of a half or full face mask air purifying respirator. The respirator had HEPA filters. Tyvek suits were used for sampling activities. Confined space procedures were followed in the survey and sampling activities. See the WP for further details.

2.0 Asbestos Survey

2.1 Asbestos Survey Methodology

EDI representatives performed a visual inspection to identify suspect ACM on accessible areas of the buildings that might be affected by the scheduled renovation to the Steam Lines. The ACM survey was performed in accordance with the United States Environmental Protection Agency (USEPA) *Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials* (USEPA 560/5085-030a, October 1985). The ACM survey included the following activities:

- Visual inspection of accessible areas of the buildings;
- Collection of bulk samples of identified suspect ACM per homogeneous material in accessible areas of the building;
- AIHA and NVLAP accredited laboratory analysis of suspect ACM bulk samples by polarized light microscopy (PLM) to first positive result per homogeneous material; and,
- Preparation of a final report that includes sample locations of representative ACM and the laboratory's analytical report.

HSAs are areas containing materials that are similar in color, texture, and general appearance, and which appear to have been uniformly installed during the same time period. The building materials identified on the roof and in interior areas were classified as being homogenous. Refer to Appendix A for Summary of Homogenous Sampling Areas and Asbestos Sample summary Tables by Building.

Bulk samples of suspect ACM were collected using wet sampling methods with a coring device or a sample cutter, as appropriate, to collect a cross-section of the suspect ACM. Sample collection tools were decontaminated after each sample to avoid cross contamination. Bulk ACM samples were placed into clean unused sample containers marked with a unique sample identification number. For each sample, the identification number, brief material description, location, condition and estimated quantity of suspect ACM were recorded on a bulk sample log sheet. Sample locations were patched with roofing material. Chain-of-Custody (COC) procedures were followed for the ACM survey. These procedures provide a written tracking mechanism that lists the person responsible for the sample from collection to delivery to the laboratory. Sample identification numbers, sample locations, and material descriptions were recorded on the chain-of-custody forms.

All bulk samples were analyzed by International Asbestos Testing Laboratory (IATL), Inc. in Mt. Laurel, New Jersey, a NVLAP accredited asbestos laboratory. IATL laboratory certifications are contained in Appendix C. Samples were analyzed by polarized light microscopy (PLM) using USEPA Method 600/R-93/116 (letter from laboratory attached in Appendix C with laboratory certification). PLM is a USEPA-approved method that utilizes a light microscope equipped with polarized filters. While the lab reports do not directly state

“PLM,” the laboratory report and letter indicates the use of USEPA Method 600/R-93/116 which is defined as PLM method.

Building 135: The following three HSAs were identified and sampled for Building 135:

- white/tan sheetrock;
- tan vinyl sheet flooring; and,
- white joint compound.

Building 11H: The following one HSA was identified and sampled for Building 11H:

- black tar roof field

Building 1709: The following two HSAs were identified and sampled for Building 1709:

- white/tan sheetrock; and,
- black roof material.

Building 11B: The following two HSAs were identified and sampled for Building 11B:

- off-white window glazing; and,
- black roof material.

Building 6509: The following two HSAs were identified and sampled for Building 6509:

- grey caulk sealant; and,
- black tar sealant.

Building 11G: The following four HSAs were identified and sampled for Building 11G:

- grey window caulk;
- off-white window caulk;
- black roof material; and,
- black roof seal.

Building 811: The following twenty HSAs were identified and sampled for Building 811:

- white/tan sheetrock;
- white joint compound;
- white floor tile;
- black mastic associated with white floor tile;
- black rubber baseboard and mastic;
- grey/white ceiling tile;
- tan insulation TSI 15” fitting;
- brown floor tile;
- black mastic associated with brown floor tile;
- light green floor tile;
- black mastic associated with green floor tile;
- grey/white ceiling tile;
- grey insulation TSI 2” pipe fitting;

- black/grey putty on roof vents;
- black tar roof;
- black tar sealant;
- roof material flashing;
- roof field;
- white insulation TSI runs; and,
- TSI wrap.

Utility Trestle S3 consisted of metal supports and wood decking/walkway. No suspect ACM was observed.

Utility Trestle S4 consists of metal supports and insulated pipes. A sign on the door at S4 indicates asbestos containing materials. Utility Trestle S4 is assumed to contain ACM based upon signage and the continuation of piping materials observed on the Steam Lines contained in the tunnel system. ACM in steam pipes associated with trestle S4 will be addressed in a separate report with ACM from the tunnel system (*Limited Environmental Survey Steam Tunnels*).

Buildings 6501, 6502, 6503, and 811A had no suspect ACM observed.

2.2 Asbestos Results

The asbestos sample summary tables are presented in Appendix A with a summary of homogenous sampling areas for Buildings. Photographs of the asbestos HSAs for the buildings are also included in Appendix A. Drawings of Asbestos sample locations are presented in Appendix B. Asbestos laboratory results and certifications are presented in Appendix C.

Building 135: Laboratory results for the following three HSAs report the following:

- white/tan sheetrock – NON-DETECT FOR ACM
- tan vinyl sheet flooring – NON-DETECT FOR ACM
- white joint compound – NON-DETECT FOR ACM

Building 1709: Laboratory results for the following two HSAs report the following:

- white/tan sheetrock – NON-DETECT FOR ACM
- black roof material – NON-DETECT FOR ACM

Building 11B: Laboratory results for the following two HSAs report the following:

- off-white window glazing – **1.3% CHRYSOTILE, POINT COUNT**
- black roof material – NON-DETECT FOR ACM

Building 6509: Laboratory results for the following two HSAs report the following:

- grey caulk sealant – NON-DETECT FOR ACM

- black tar sealant – NON-DETECT FOR ACM

Building 11G: Laboratory results for the following four HSAs report the following:

- grey window caulk – NON-DETECT FOR ACM
- off-white window caulk – NON-DETECT FOR ACM
- black roof material - **1.2% CHRYSOTILE, POINT COUNT**
- black roof seal - **2.5% CHRYSOTILE, POINT COUNT**

Building 11H: Laboratory results for the following one HSA report the following:

- black tar roof field – NON-DETECT FOR ACM

Building 811: Laboratory results for the following twenty HSAs report the following:

- white/tan sheetrock – NON-DETECT FOR ACM
- white joint compound – NON-DETECT FOR ACM
- white floor tile – NON-DETECT FOR ACM
- black mastic associated with white floor tile – NON-DETECT FOR ACM
- black rubber baseboard and mastic – NON-DETECT FOR ACM
- grey/white ceiling tile – NON-DETECT FOR ACM
- tan insulation TSI 15” fitting – NON-DETECT FOR ACM
- brown floor tile – NON-DETECT FOR ACM
- black mastic associated with brown floor tile - **1.7% CHRYSOTILE, POINT COUNT**
- light green floor tile – NON-DETECT FOR ACM
- black mastic associated with green floor tile - **3.7% CHRYSOTILE, POINT COUNT**
- grey/white ceiling tile – NON-DETECT FOR ACM
- grey insulation TSI 2” pipe fitting - **15% CHRYSOTILE**
- black/grey putty on roof vents - **15% CHRYSOTILE**
- black tar roof – NON-DETECT FOR ACM
- black tar sealant – NON-DETECT FOR ACM
- roof material flashing – NON-DETECT FOR ACM
- roof field – NON-DETECT FOR ACM
- white insulation TSI runs – NON-DETECT FOR ACM
- TSI wrap – NON-DETECT FOR ACM

3.0 Paint Survey

3.1 Paint Survey Methodology

EDI conducted an inspection to identify representative painted components in associated Buildings. Painted surfaces included walls, doors, entry holes, guard rails, I-beams, gutters, sprinkler pumps and roof vents.

Paint samples were placed into clean unused sample containers marked with a unique sample identification number. For each sample, the identification number, brief material description, location, condition, and estimated quantity of representative paint was recorded on a bulk sample log sheet. Chain-of-Custody (COC) procedures were followed for the lead survey. These procedures provide a written tracking mechanism that lists the person responsible for the sample from collection to delivery to the laboratory. Sample identification numbers, sample locations, and material descriptions were recorded on the chain-of-custody forms. COC forms are provided in Appendix F. The samples were analyzed by laboratory method AAS.

3.2 Paint Results

The paint sample summary tables are presented in Appendix D. Photographs of the paint samples collected are presented in Appendix D. Drawings of paint sample locations are presented in Appendix E. Laboratory results and certifications are presented in Appendix F. Lead-based paint (LBP) is defined as equal to or greater than 0.5% lead by weight. Lead-containing paint (LCP) contains less than 0.5% lead by weight.

Trestles S3 and S4:

- Green paint on trestles, as is on supports for above ground lines is 0.0097% by weight – **LCP**

Building 11B:

- grey paint-front door is 0.0082% by weight - **LCP**
- orange paint-front door is 0.68% by weight - **LBP**

Building 11G:

- red paint-sprinkler pump is <0.011% by weight - **NON-DETECT FOR LEAD**
- brown paint gutters is <0.0076% by weight – **NON-DETECT FOR LEAD**
- white paint-interior of pump room is <0.0076% by weight – **NON-DETECT FOR LEAD**

Building 11H:

- white paint-wall is 0.025% by weight - **LCP**

Building 135:

- white paint-wall is <0.0073% lead by weight – **NON-DETECT FOR LEAD**

Building 6501:

- white paint is <0.0054% by weight – NON-DETECT FOR LEAD
- yellow paint-guard rail is <0.010% by weight – NON-DETECT FOR LEAD

Building 6509:

- grey paint-entry holes is <0.0083% by weight – NON-DETECT FOR LEAD

Building 811:

- grey paint-I beam is <0.0077% by weight – NON-DETECT FOR LEAD
- beige paint is <0.0094% by weight – NON-DETECT FOR LEAD
- light blue paint-walls is <0.0068% by weight – NON-DETECT FOR LEAD
- sky blue paint-wall is 0.0095% by weight - **LCP**
- black paint-roof vent is <0.0082% by weight – NON-DETECT FOR LEAD
- beige paint-exterior is 0.011% by weight - **LCP**

In summary, LBP was identified on the support structure for the aboveground pipe line (inclusive of trestles S3 and S4 painted surfaces) and on the door on Building 11B.

4.0 Hazardous Materials Survey

4.1 Hazardous Materials Survey Methodology

EDI performed a visual survey of Buildings: 1709, 11B, 11G, 11H, 135, 811, 811A, 6501, 6502, 6503, 6509, and utility trestles S4 and S3 for hazardous materials. The visual survey focused on chemicals in buckets, drums, or tanks; oil storage; cleaners; transformers; and thermometers or thermostats that may contain mercury. No sampling was planned for these other potential hazardous materials. Photographs of potential hazardous materials were taken during the visual survey.

4.2 Hazardous Materials Results

Potential hazardous materials were observed in the areas of the buildings. A Table of the Hazardous Materials Log is attached for reference in Appendix G with photographs. At Building 6502, thermometers, electric panel box, and an ammonia supply line were identified. At Building 6503, engine oil, lube oil, a fire extinguisher, and fluorescent light bulbs were identified. As noted in Section 1.2, Building 6501 is an ammonia storage tank and the tank was found to have associated gauges and thermometers. Building 1709 had a cleaner for reverse osmosis filters. Building 811A had several cleaners and oils, light ballasts, and a transformer. Building 135 had lighting, ballasts, transformers (stored and not in use), electrical panels, chemicals, and a refrigerator. Building 11H had a gas meter and gas supply line. Building 11G had electrical panel and switches, transformers, fuel pump, and cleaners. Building 11B had paints and lubricating oils. Building 811 had cleaners, fire extinguishers, thermostats, electrical panel, and a transformer.

5.0 Findings and Recommendations

5.1 Asbestos Survey

Based on the visual inspection and bulk sample analysis results, Buildings with ACM include S4, 11B (window glazing-estimated 50 LF), 11G (roof materials-estimated 450 SF), and 811 (floor tile and mastic estimated 1,200 SF, TSI estimated 150 LF, and roof vent putty estimated 100 LF).

All ACM should be abated by an IDPH-licensed contractor using IDPH licensed supervisors and workers, prior to pipe line demolition. Any asbestos-containing material that will be disturbed during planned renovation must be abated using licensed abatement contractors in accordance with federal, state and local regulations. EDI recommends the following approach for asbestos abatement prior to demolition:

- Abate ACM noted for the Steam Lines and associate Buildings;
- All ACM abated shall be transported in a manor consistent with local and federal regulations.
- All ACM abated shall be disposed of in an approved landfill or disposal facility in a manor consistent with local and federal regulations. A copy of the disposal documentation signed by a landfill or disposal facility representative shall be included in the final abatement report submitted to the Navy by the abatement contractor within 30 days of completing abatement.

5.2 Paint Survey

The laboratory analysis reports that LBP was detected in a sample obtained by EDI from the support structure for the aboveground pipe line (quantity will be provided in Aboveground Report) and on one door on Building 11B. LBP abatement is recommended based on these results. The support structure for the aboveground pipe line has tested positive for LBP (multiple paint colors). LCP has been identified but does not require abatement prior to demolition. However, activities that may disturb LCPs may be regulated under Occupational Safety and Health Administration (OSHA) standards, and other federal, state and local regulations.

5.3 Hazardous Materials Survey

Other potential hazardous materials have been summarized and tabulated. These potential hazardous materials should be properly addressed prior to demolition activities. Proper disposal may require sampling, permitting, and proper disposal records.

6.0 Limitations

This report is based solely on the scope of work provided and the assumptions identified in this limited survey. Any new information that becomes available concerning the subject site should be provided to EDI so that our evaluations, conclusions, and recommendations may be revised and modified accordingly. All materials tested are assumed homogeneous throughout the proposed renovation/demolition areas. EDI staff walked the site area to identify accessible areas to be included in the limited survey. Every attempt was made to thoroughly evaluate and assess the presence and condition of suspect asbestos and lead containing materials. The building materials identified were classified as being homogenous to the buildings. EDI did not perform destructive sampling practices and suspect materials may exist within inaccessible areas. Any suspect material identified during renovation that is not specifically listed herein should be thoroughly assessed, sampled, and analyzed prior to disturbance, in accordance with applicable regulatory standards.

The findings and conclusions in this report are not specific certainties; rather they are probabilities based on professional judgment concerning the significance of the data collected. EDI claims to represent only the specific findings documented herein and does not claim knowledge of conditions beyond the scope of the limited survey.

The asbestos and lead survey was conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the environmental profession under similar conditions. No other warranty or guarantee, express or implied, is included or intended in this Report or otherwise.

This report is intended for the use of the client, subject to the terms and conditions of Navy Contract Number N40083-07-A-0016, BPA Call Number 0030.

7.0 Definitions

The following definitions are intended to provide the reader with a better understanding of the terminology used in this report.

Asbestos

The general name given to a number of naturally occurring hydrated silicate minerals that possess a unique crystalline structure, are incombustible in air, and are separable into fibers. Asbestos includes chrysotile, crocidolite, amosite, anthophyllite, tremolite and actinolite.

Asbestos-Containing Material (ACM)

Asbestos- containing material (ACM) is material that is found to contain greater than one percent asbestos content as determined by polarized light microscopy (PLM) analysis (USEPA 560/5085-030a, October 1985).

Accessible Areas

An accessible area of the building is any area that the survey team is permitted to inspect and that can be inspected without the disassembly of complicated mechanical or rigid structural components of the building. Examples of accessible areas of the building are interior floors, walls, ceilings, areas above suspended ceilings, return air shafts (normally), mechanical piping exteriors, and equipment exteriors, etc.

Damaged material

A “damaged” material contains a few water stains or less than one-tenth of insulation with missing jackets and/or crushed insulation or water stains, gouges, punctures, or mars on surface up to one-tenth of the insulation if the damage is evenly distributed or up to one-quarter if the damage is localized.

Inaccessible Areas

An inaccessible area is any area where inspection access is not permitted or requires a considerable amount of mechanical or structural disassembly to inspect. Inaccessible areas normally only investigated prior to renovation or demolition activities. Examples of inaccessible areas are pipe chases behind solid walls, mechanically encased insulation, crawlspaces, or unsafe areas.

Friable Material

A material, that when dry, may be crumbled, pulverized, or reduced to powder by hand pressure is a friable material. Examples of friable materials include: pipe insulation, boiler or tank insulation, or sprayed-on fireproofing.

Homogeneous Area

A homogeneous area is defined as a group of materials that is uniform in texture and appearance, was stalled at one time, and is likely to consist of more than one type or formation of material.

Lead-Based Paint (LBP)

Paint or surface coatings that contain lead levels greater than or equal to 1.0 milligram per square centimeter, or more than 0.5% lead by weight.

Lead-Containing Paint (LCP)

Paint or surface coatings that contain lead levels greater than the laboratory detection limit but less than 1.0 milligram per square centimeter (or less than 0.5% by weight). LCPs are not controlled under United States Environmental Protection Agency (USEPA) regulations. However, activities that may disturb LCPs may be regulated under Occupational Safety and Health Administration (OSHA) standards.

Non-friable Material

A material, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable materials may become friable through damage or deterioration. Examples of non-friable materials include: intact floor tile, transite building panels, or well maintained roofing materials.

Significantly Damaged Material

A “significantly damaged” material contains missing jackets on at least one-tenth of the piping or equipment and/or is crushed, heavily gouged, or punctured insulation on at least one-tenth of pipe runs/rises, boilers, tanks, ducts, etc., if the damage is evenly distributed or one-quarter of the damage is localized.

**Appendix A: Summary of Homogenous Sampling
Areas, Asbestos Sample Summary Tables, and
Photographs of Building Materials**

**Naval Station Great Lakes
 Basewide Steam Lines Targeted for Demolition
 Table 1: Summary of Homogenous Sampling Areas (HAs)
 Buildings**

BUILDING 135				
HA	Description	Building	Sample numbers	ACM or ND
HA1	White/ Tan Sheetrock	135	01,02,03	ND
HA2	Tan Vinyl sheet flooring	135	04,05,06	ND
HA3	White Joint compound	135	07,08,09	ND

BUILDING 11H				
HA	Description	Building	Sample numbers	ACM or ND
HA1	Black Tar Roof Field	11H	01,02,03	ND

BUILDING 1709				
HA	Description	Building	Sample numbers	ACM or ND
HA1	White/ Tan Sheetrock	1709	01,02,03	ND
HA2	Black roof Material	1709	04,05,06	ND

BUILDING 11B				
HA	Description	Building	Sample numbers	ACM or ND
HA1	Off-white Window glazing	11B	01,02,03	ACM
HA2	Black roof Material	11B	04,05,06	ND

BUILDING 6509				
HA	Description	Building	Sample numbers	ACM or ND
HA1	Grey caulk sealant	6509	01,02,03	ND
HA2	Black tar sealant	6509	04,05,06	ND

BUILDING 11G				
HA	Description	Building	Sample numbers	ACM or ND
HA1	Grey Window caulk	11G	01,02,03	ND
HA2	Off-white Window caulk	11G	04,05,06	ND
HA3	Black roof material	11G	07, 08, 09	ACM
HA4	Black roof seal	11G	10, 11, 12	ACM

BUILDING 811				
HA	Description	Building	Sample numbers	ACM or ND
HA1	White/ Tan sheetrock	811	01,02,03	ND
HA2	White joint compound	811	04,05,06	ND
HA3	White Floor Tile	811	07, 08, 09	ND
HA4	Black Mastic	811	10, 11, 12	ND
HA5	Black rubber baseboard and mastic	811	13, 14, 15	ND
HA6	Grey/ white ceiling tile	811	16, 17, 18	ND
HA7	Tan Insulation 15" fitting	811	19, 20, 21	ND
HA8	Brown floor tile	811	22, 23, 24	ND
HA9	Black Mastic	811	25, 26, 27	ACM
HA10	Light green floor tile	811	28, 29, 30	ND
HA11	Black mastic with green floor tile	811	31, 32, 33	ACM
HA12	Grey/ white ceiling tile	811	34,35,36	ND
HA13	Grey insulation TSI 2" pipe fitting	811	37, 38, 39	ACM
HA14	black/grey putty roof vents	811	40, 41, 42	ACM
HA15	Black tar roof	811	43, 44, 45	ND
HA16	Black tar sealant	811	46, 47, 48	ND
HA17	Roof material flashing	811	49, 50, 51	ND
HA18	Roof field	811	52, 53, 54	ND
HA19	White Insulation TSI	811	55, 56, 57	ND
HA20	TSI wrap	811	58, 59, 60	ND

Asbestos Sample Summary Table

Building 135
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 135, North	Sheetrock	White/ Tan	B-135-HA-1-01	ND	PLM	NF	1,200 s.f.	Good
Bldg. 135, East	Sheetrock	White/ Tan	B-135-HA-1-02	ND	PLM	NF		Good
Bldg. 135, South	Sheetrock	White/ Tan	B-135-HA-1-03	ND	PLM	NF		Good
Bldg. 135	Vinyl Sheet Flooring	Tan	B-135-HA-2-04	ND	PLM	NF	300 s.f.	Good
Bldg. 135	Vinyl Sheet Flooring	Tan	B-135-HA-2-05	ND	PLM	NF		Good
Bldg. 135	Vinyl Sheet Flooring	Tan	B-135-HA-2-06	ND	PLM	NF		Good
Bldg. 135, East	Joint Compound	White	B-135-HA-3-07	ND	PLM	NF	1,200 l.f.	Good
Bldg. 135, Northwest	Joint Compound	White	B-135-HA-3-08	ND	PLM	NF		Good
Bldg. 135, Southwest	Joint Compound	White	B-135-HA-3-09	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 11H
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 11H, North Roof Field	Roof Field	Black tar	B-11H-HA-1-01	ND	PLM	NF	600 s.f.	Good
Bldg. 11H, Roof Field Center	Roof Field	Black tar	B-11H-HA-1-02	ND	PLM	NF		Good
Bldg. 11H, Roof Field South	Roof Field	Black tar	B-11H-HA-1-03	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 1709
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 1709	Sheetrock	White/ Tan	B-1709-HA-1-01	ND	PLM	NF	600 s.f.	Good
Bldg. 1709	Sheetrock	White/ Tan	B-1709-HA-1-02	ND	PLM	NF		Good
Bldg. 1709	Sheetrock	White/ Tan	B-1709-HA-1-03	ND	PLM	NF		Good
Bldg. 1709	Roof Material	Black	B-1709-HA-2-04	ND	PLM	NF	300 s.f.	Good
Bldg. 1709	Roof Material	Black	B-1709-HA-2-05	ND	PLM	NF		Good
Bldg. 1709	Roof Material	Black	B-1709-HA-2-06	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 11B
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 11B, Northwest	Window Glazing	Off-White	B-11B-HA-1-01	PC 1.3% Chrysotile	PLM	NF	50 l.f.	Good
Bldg. 11B, Northwest	Window Glazing	Off-White	B-11B-HA-1-02	ND	PLM	NF		Good
Bldg. 11B, Northwest	Window Glazing	Off-White	B-11B-HA-1-03	ND	PLM	NF		Good
Bldg. 11B, Roof	Shingle	Black	B-11B-HA-2-04	ND	PLM	NF	360 s.f.	Good
Bldg. 11B, Roof	Roof Material (Layer 2)	Black	B-11B-HA-2-04	ND	PLM	NF		Good
Bldg. 11B, Roof	Roof Material (Layer 3)	Blue	B-11B-HA-2-04	ND	PLM	NF		Good
Bldg. 11B, Roof	Shingle	Black	B-11B-HA-2-05	ND	PLM	NF		Good
Bldg. 11B, Roof	Roof Material (Layer 2)	Black	B-11B-HA-2-05	ND	PLM	NF		Good
Bldg. 11B, Roof	Roof Material (Layer 3)	Blue	B-11B-HA-2-05	ND	PLM	NF		Good
Bldg. 11B, Roof	Shingle	Black	B-11B-HA-2-06	ND	PLM	NF		Good
Bldg. 11B, Roof	Roof Material (Layer 2)	Black	B-11B-HA-2-06	ND	PLM	NF		Good
Bldg. 11B, Roof	Roof Material (Layer 3)	Blue	B-11B-HA-2-06	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 6509
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 6509, Penetration Sealant Entry Hole East	Caulk Sealant	Grey	B-6509-HA-1-01	ND	PLM	NF	15 l.f.	Good
Bldg. 6509, Penetration Sealant Entry Hole North	Caulk Sealant	Grey	B-6509-HA-1-02	ND	PLM	NF		Good
Bldg. 6509, Penetration Sealant Pipe East	Caulk Sealant	Grey	B-6509-HA-1-03	ND	PLM	NF		Good
Bldg. 6509, Penetration Sealant South	Tar Sealant	Black	B-6509-HA-2-04	ND	PLM	NF	85 l.f.	Good
Bldg. 6509, Penetration Sealant East	Tar Sealant	Black	B-6509-HA-2-05	ND	PLM	NF		Good
Bldg. 6509, Penetration Sealant North	Tar Sealant	Black	B-6509-HA-2-06	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 11G
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 11G, Window Southeast	Window Caulk	Grey	B-11G-HA-1-01	ND	PLM	NF	20 l.f.	Good
Bldg. 11G, Window Southwest	Window Caulk	Grey	B-11G-HA-1-02	ND	PLM	NF		Good
Bldg. 11G, Window West	Window Caulk	Grey	B-11G-HA-1-03	ND	PLM	NF		Good
Bldg. 11G, Window	Window Caulk	Off-White	B-11G-HA-2-04	ND	PLM	NF	20 l.f.	Good
Bldg. 11G, Window	Window Caulk	Off-White	B-11G-HA-2-05	ND	PLM	NF		Good
Bldg. 11G, Window	Window Caulk	Off-White	B-11G-HA-2-06	ND	PLM	NF		Good
Bldg. 11G, Roof Field West	Roof Material	Black	B-11G-HA-3-07	PC 1.2% Chrysotile	PLM	NF	450 s.f.	Good
Bldg. 11G, Roof Field, Center	Roof Material	Black	B-11G-HA-3-08	ND	PLM	NF		Good
Bldg. 11G, Roof Field, East	Roof Material	Black	B-11G-HA-3-09	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 11G
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 11G	Roof Seal	Black	B-11G-HA-4-10	PC 2.2% Chrysotile	PLM	NF	15 l.f.	Good
Bldg. 11G	Roof Seal	Black	B-11G-HA-4-11	PC 1.9% Chrysotile	PLM	NF		Good
Bldg. 11G	Roof Seal	Black	B-11G-HA-4-12	PC 2.5% Chrysotile	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 811
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 811	Sheetrock	White/ Tan	B-811-HA-1-01	ND	PLM	NF	1,200 s.f.	Good
Bldg. 811	Sheetrock	White/ Tan	B-811-HA-1-02	ND	PLM	NF		Good
Bldg. 811	Sheetrock	White/ Tan	B-811-HA-1-03	ND	PLM	NF		Good
Bldg. 811	Joint Compound	White	B-811-HA-2-04	ND	PLM	NF	1,200 l.f.	Good
Bldg. 811	Joint Compound	White	B-811-HA-2-05	ND	PLM	NF		Good
Bldg. 811	Joint Compound	White	B-811-HA-2-06	ND	PLM	NF		Good
Bldg. 811	Floor Tile	White	B-811-HA-3-07	ND	PLM	NF	70 s.f.	Good
Bldg. 811	Floor Tile	White	B-811-HA-3-08	ND	PLM	NF		Good
Bldg. 811	Floor Tile	White	B-811-HA-3-09	ND	PLM	NF		Good
Bldg. 811	Mastic	Black	B-811-HA-4-10	ND	PLM	NF	70 s.f.	Good
Bldg. 811	Mastic	Black	B-811-HA-4-11	ND	PLM	NF		Good
Bldg. 811	Mastic	Black	B-811-HA-4-12	ND	PLM	NF		Good
Bldg. 811	Mastic (Layer 2: Leveling Compound)	Grey	B-811-HA-4-12	ND	PLM	NF		Good
Bldg. 811	Baseboard and Mastic	Black rubber	B-811-HA-5-13	ND	PLM	NF	125 l.f.	Good
Bldg. 811	Baseboard and Mastic (Layer 2)	Brown mastic	B-811-HA-5-13	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 811
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 811	Baseboard and Mastic	Black rubber	B-811-HA-5-14	ND	PLM	NF	125 l.f.	Good
Bldg. 811	Baseboard and Mastic (Layer 2)	Brown mastic	B-811-HA-5-14	ND	PLM	NF		Good
Bldg. 811	Baseboard and Mastic	Black rubber	B-811-HA-5-15	ND	PLM	NF		Good
Bldg. 811	Baseboard and Mastic (Layer 2)	Brown mastic	B-811-HA-5-15	ND	PLM	NF		Good
Bldg. 811	Ceiling Tile	Grey/ White	B-811-HA-6-16	ND	PLM	NF	70 s.f.	Good
Bldg. 811	Ceiling Tile	Grey/ White	B-811-HA-6-17	ND	PLM	NF		Good
Bldg. 811	Ceiling Tile	Grey/ White	B-811-HA-6-18	ND	PLM	NF		Good
Bldg. 811	Insulation 15" Fitting	Tan	B-811-HA-7-19	ND	PLM	NF	50 l.f.	Good
Bldg. 811	Insulation 15" Fitting	Tan	B-811-HA-7-20	ND	PLM	NF		Good
Bldg. 811	Insulation 15" Fitting	Tan	B-811-HA-7-21	ND	PLM	NF		Good
Bldg. 811	Floor Tile	Brown	B-811-HA-8-22	ND	PLM	NF	1,200 s.f.	Good
Bldg. 811	Floor Tile	Brown	B-811-HA-8-23	ND	PLM	NF		Good
Bldg. 811	Floor Tile	Brown	B-811-HA-8-24	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 811
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 811	Mastic associated with Floor Tile	Black	B-811-HA-9-25	PC 1.5% Chrysotile	PLM	NF	1,200 s.f.	Good
Bldg. 811	Mastic associated with Floor Tile	Black	B-811-HA-9-26	PC 1.7% Chrysotile	PLM	NF		Good
Bldg. 811	Mastic associated with Floor Tile	Black	B-811-HA-9-27	PC 1.2% Chrysotile	PLM	NF		Good
Bldg. 811	Floor Tile	Light Green	B-811-HA-10-28	ND	PLM	NF	50 s.f.	Good
Bldg. 811	Floor Tile	Light Green	B-811-HA-10-29	ND	PLM	NF		Good
Bldg. 811	Floor Tile	Light Green	B-811-HA-10-30	ND	PLM	NF		Good
Bldg. 811	Mastic associated with Floor Tile	Black	B-811-HA-11-31	PC 3.7% Chrysotile	PLM	NF	50 s.f.	Good
Bldg. 811	Mastic associated with Floor Tile	Black	B-811-HA-11-32	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 811
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 811	Mastic associated with Floor Tile	Black	B-811-HA-11-33	ND	PLM	NF	50 s.f.	Good
Bldg. 811	Ceiling Tile	White	B-811-HA-12-34	ND	PLM	NF	80 s.f.	Good
Bldg. 811	Ceiling Tile	White	B-811-HA-12-35	ND	PLM	NF		Good
Bldg. 811	Ceiling Tile	White	B-811-HA-12-36	ND	PLM	NF		Good
Bldg. 811	2" TSI Pipe Fitting	Grey	B-811-HA-13-37	ND	PLM	NF	150 l.f.	Good
Bldg. 811	2" TSI Pipe Fitting	Grey	B-811-HA-13-38	ND	PLM	NF		Good
Bldg. 811	2" TSI Pipe Fitting	Grey	B-811-HA-13-39	ND	PLM	NF		Good
Bldg. 811	2" TSI Pipe Fitting (Layer 2)	Grey Wrap	B-811-HA-13-39	15% Chrysotile	PLM	NF		Good
Bldg. 811, Roof	Roof Vent Putty	Black/Grey	B-811-HA-14-40	10% Chrysotile	PLM	NF	100 l.f.	Good
Bldg. 811, Roof	Roof Vent Putty	Black/Grey	B-811-HA-14-41	10% Chrysotile	PLM	NF		Good
Bldg. 811, Roof	Roof Vent Putty	Black/Grey	B-811-HA-14-42	15% Chrysotile	PLM	NF		Good
Bldg. 811, Roof	Tar Roof	Black	B-811-HA-15-43	ND	PLM	NF	500 l.f.	Good

Results	Type	Test Method	Friability	Condition
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 811
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 811, Roof	Tar Roof	Black	B-811-HA-15-44	ND	PLM	NF	500 l.f.	Good
Bldg. 811, Roof	Tar Roof	Black	B-811-HA-15-45	ND	PLM	NF		Good
Bldg. 811	Tar Sealant	Black	B-811-HA-16-46	ND	PLM	NF	500 l.f.	Good
Bldg. 811	Tar Sealant	Black	B-811-HA-16-47	ND	PLM	NF		Good
Bldg. 811	Tar Sealant	Black	B-811-HA-16-48	ND	PLM	NF		Good
Bldg. 811, Roof	Roof Material Flashing	Black/Silver	B-811-HA-17-49	ND	PLM	NF	500 l.f.	Good
Bldg. 811, Roof	Roof Material Flashing	Black/Silver	B-811-HA-17-50	ND	PLM	NF		Good
Bldg. 811, Roof	Roof Material Flashing	Black/Silver	B-811-HA-17-51	ND	PLM	NF		Good
Bldg. 811, Roof	Roof Field	Black/Brown Roof Material	B-811-HA-18-52	ND	PLM	NF	4,600 s.f.	Good
Bldg. 811, Roof	Roof Field	Black/Brown Roof Material	B-811-HA-18-53	ND	PLM	NF		Good
Bldg. 811, Roof	Roof Field	Black/Brown Roof Material	B-811-HA-18-54	ND	PLM	NF		Good
Bldg. 811	TSI	White	B-811-HA-19-55	ND	PLM	NF	100 l.f.	Good
Bldg. 811	TSI	White	B-811-HA-19-56	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Asbestos Sample Summary Table

Building 811
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sampled Material Description	Sample ID	Results (% and type)	Test Method	Friability	Approx. Quantity Square feet (s.f) Linear feet (l.f.)	Condition
Bldg. 811	TSI	White	B-811-HA-19-57	ND	PLM	NF	100 l.f.	Good
Bldg. 811	TSI Wrap	Off-White	B-811-HA-20-58	ND	PLM	NF		Good
Bldg. 811	TSI Wrap (Layer 2)	Brown/ White Non-Fibrous	B-811-HA-20-58	ND	PLM	NF		Good
Bldg. 811	TSI Wrap	Off-White	B-811-HA-20-59	ND	PLM	NF		Good
Bldg. 811	TSI Wrap (Layer 2)	Brown/ White Non-Fibrous	B-811-HA-20-59	ND	PLM	NF		Good
Bldg. 811	TSI Wrap	Off-White	B-811-HA-20-60	ND	PLM	NF		Good
Bldg. 811	TSI Wrap (Layer 2)	Brown/ White Non-Fibrous	B-811-HA-20-60	ND	PLM	NF		Good
Bldg. 811	TSI Wrap (Layer 2)	Brown/ White Non-Fibrous	B-811-HA-20-60	ND	PLM	NF		Good

<u>Results</u>	<u>Type</u>	<u>Test Method</u>	<u>Friability</u>	<u>Condition</u>
ND: Not Detected	AC: Actinolite AM: Amosite AN: anthophyllite CH: Chrysotile CR: Crocidilite TR: Tremolite	PLM: Polarized Light Microscopy PC: Point Count Method TEM: Transmission Electron Microscopy	F: Friable NF: Non- Friable Category I NF-II: Non-Friable Category II	Good: Little to no damage Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

Naval Station Great Lakes
 Photo Log of Buildings
 September 6, 2011
 Photographed by Jose Aguilera
Buildings 11B, 11G, and 11H



Building 11B View looking north, note window



Building 11G View looking north, note window.



Building 11G HA3: Black roofing material



Building 11B HA1: Off-white window glazing



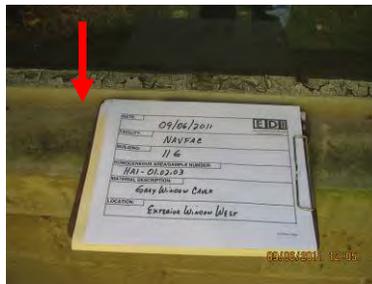
Building 11G View looking northeast, note window



Building 11G HA4: Black roof sealant



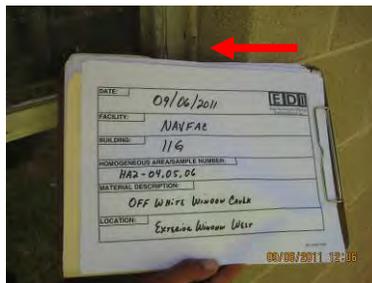
Building 11B HA2: Black roof material



Building 11G HA1: Gray window caulk

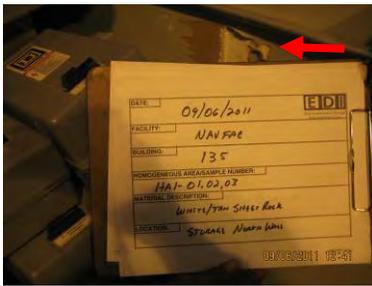


Building 11H HA1: Black tar roof field

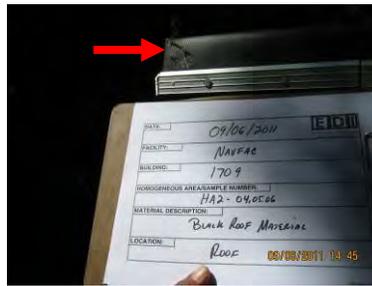


Building 11G HA2: Off-white window caulk

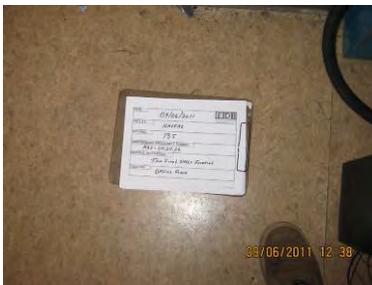
Naval Station Great Lakes
 Photo Log of Buildings
 September 6, 2011
 Photographed by Jose Aguilera
Buildings 135, 1709, and 6509



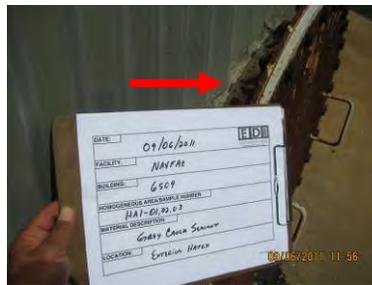
Building 135 HA1:
 White/tan sheet rock



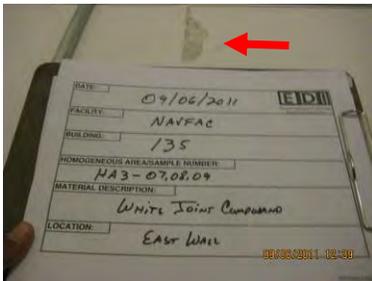
Building 1709 HA2: Black
 roof material



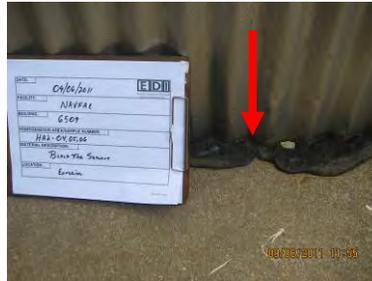
Building 135 HA2: Tan
 vinyl sheet flooring



Building 6509 HA1: Gray
 caulk sealant



Building 135 HA3: White
 joint compound



Building 6509 HA2: Black
 tar sealant

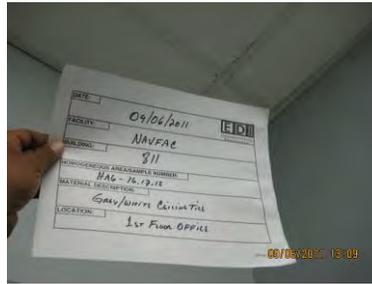


Building 1709 HA1:
 White/tan sheetrock

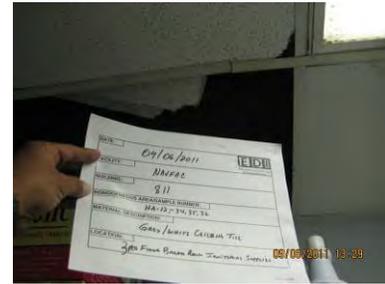
Naval Station Great Lakes
 Photo Log of Buildings
 September 6, 2011
 Photographed by Jose Aguilera
Building 811



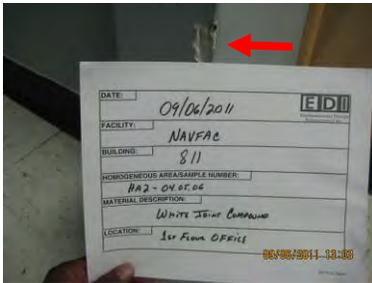
Building 811 HA1:
 White/tan sheetrock



Building 811 HA6:
 Gray/white ceiling tile



Building 811 HA12:
 Gray/white ceiling tile



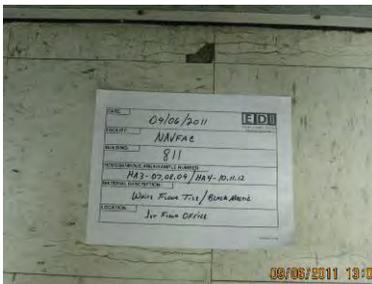
Building 811 HA2: White
 joint compound



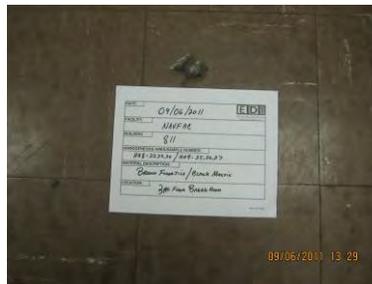
Building 811 HA7: tan
 insulation 15" fitting



Building 811 HA13: TSI 2"
 pipe fitting



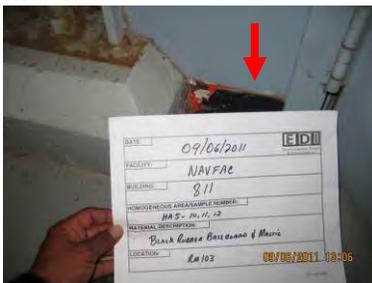
Building 811 HA3 & HA4:
 White floor tile & black
 mastic



Building 811 HA8 & HA9:
 Brown floor tile & black
 mastic



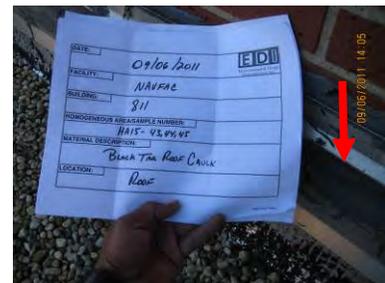
Building 811 HA14:
 Black/gray putty roof vents



Building 811 HA5: Black
 rubber baseboard and mastic

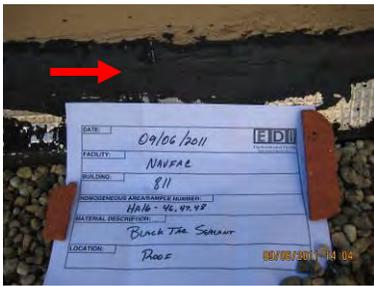


Building 811 HA10 & HA11
 Light green floor tile &
 black mastic



Building 811 HA15: Black
 tar roof caulk

Naval Station Great Lakes
Photo Log of Buildings
September 6, 2011
Photographed by Jose Aguilera
Building 811



Building 811 HA16: Black tar sealant



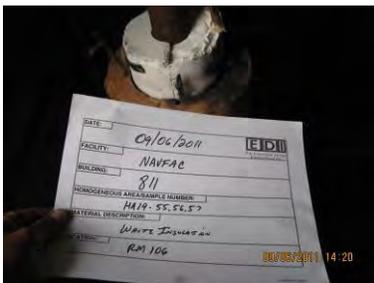
Building 811 HA20: TSI wrap



Building 811 HA17: Roof flashing



Building 811 HA18: Roof field



Building 811 HA19: White insulation, TSI

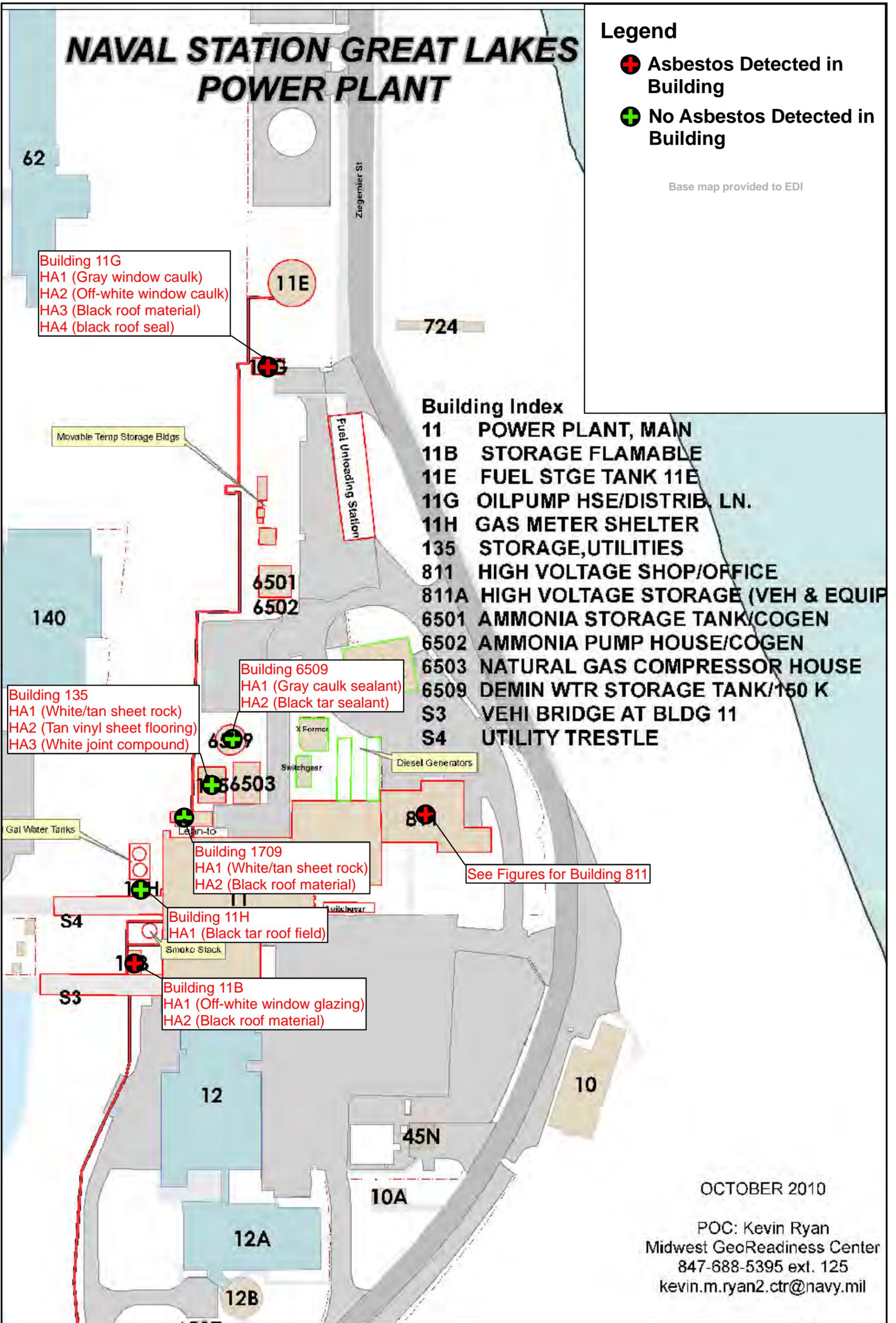
Appendix B: Building Sample Location Drawings for Asbestos

NAVAL STATION GREAT LAKES POWER PLANT

Legend

- + Asbestos Detected in Building
- + No Asbestos Detected in Building

Base map provided to EDI



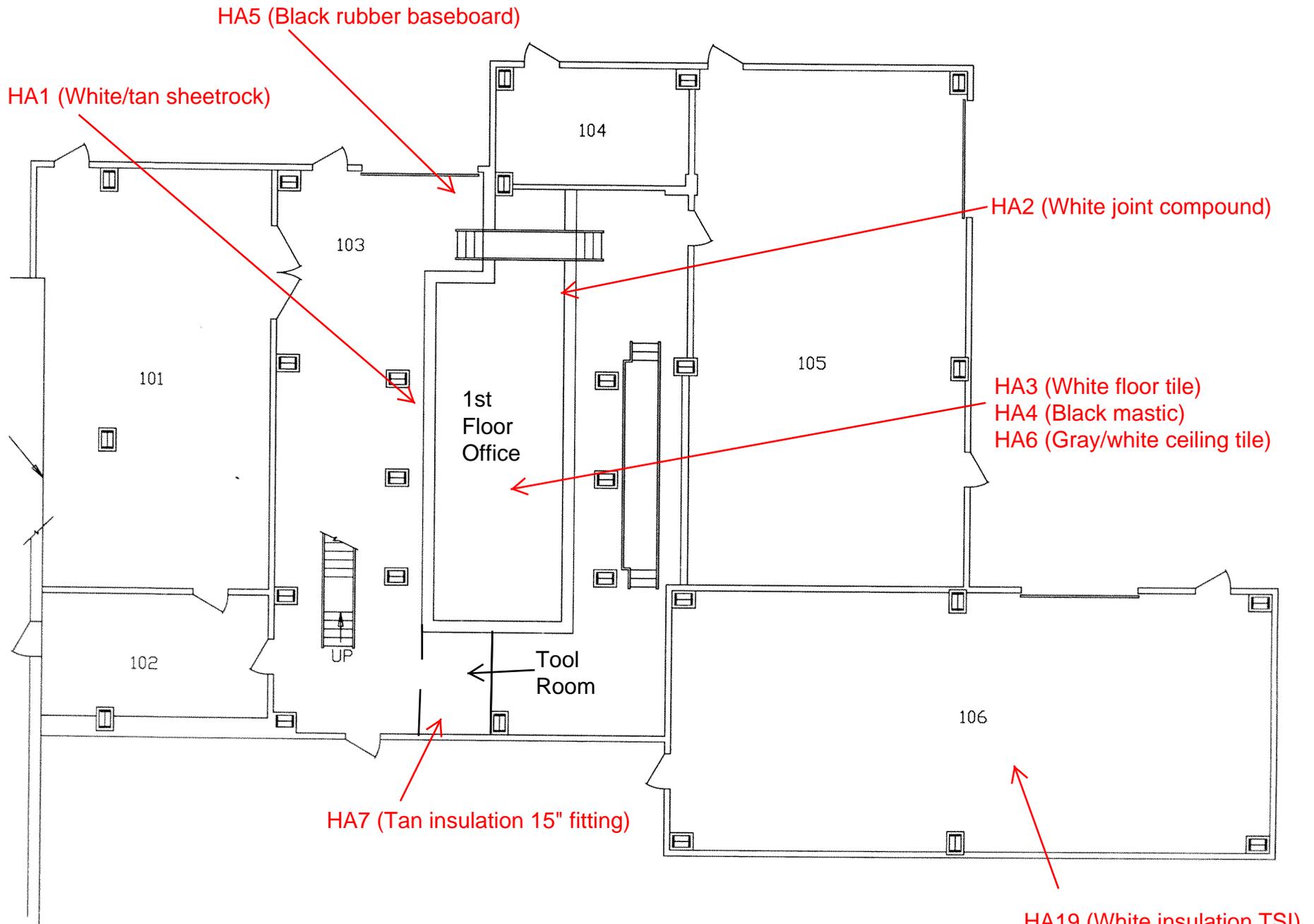
OCTOBER 2010

POC: Kevin Ryan
Midwest GeoReadiness Center
847-688-5395 ext. 125
kevin.m.ryan2.ctr@navy.mil

EDI Environmental Design International inc.
Civil, Survey, Environmental and Construction Inspection Services
33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603
Ph. (312) 345-1400 Fax (312) 345-0529
www.envdesigni.com
Excellence, Dedication, Innovation

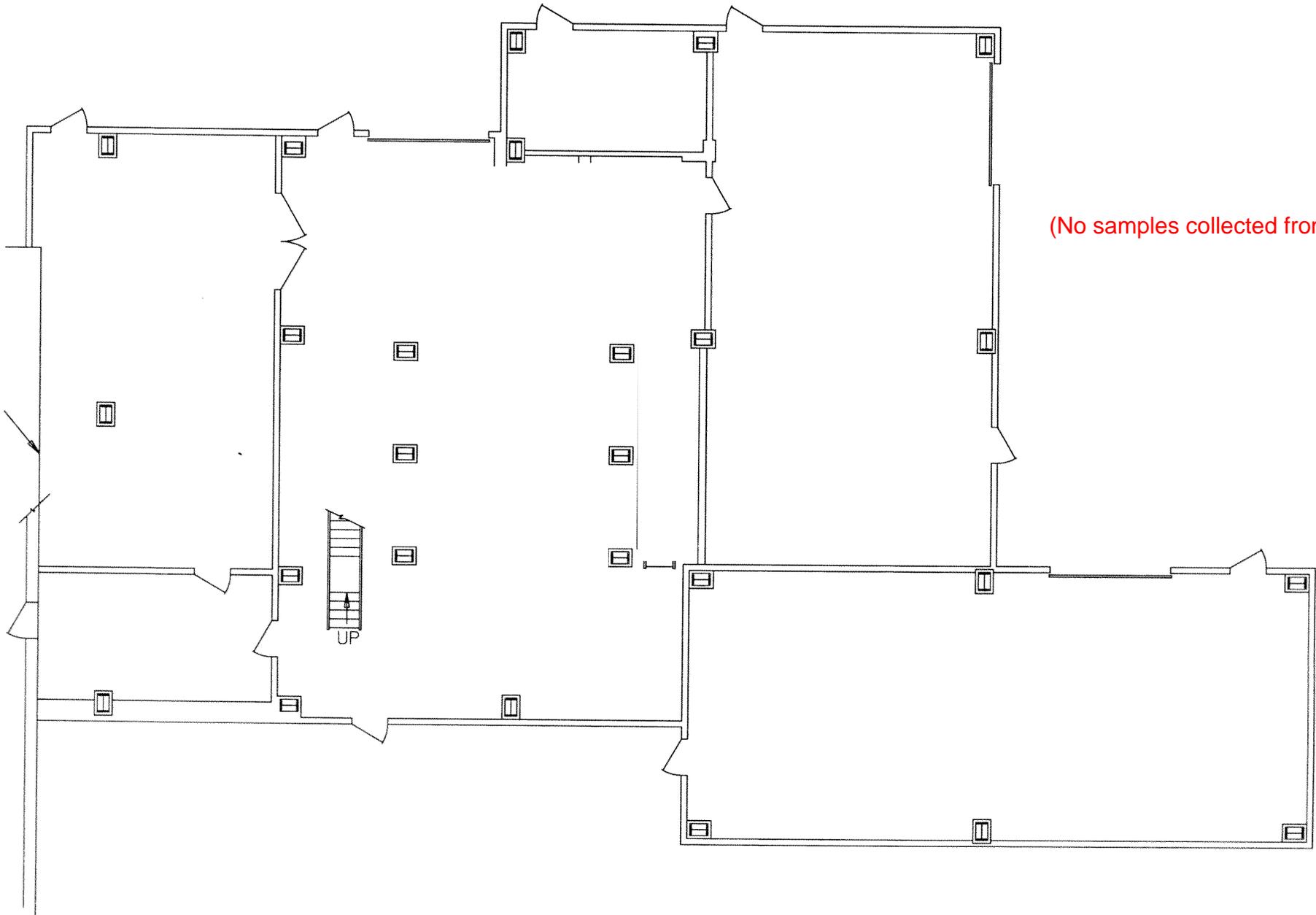
Building Asbestos Sampling
Figure 2

PROJ. No: 1602.029
DATE: 9/28/2011
DRAWN BY: JRJ
APPROVED BY: PF



Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012

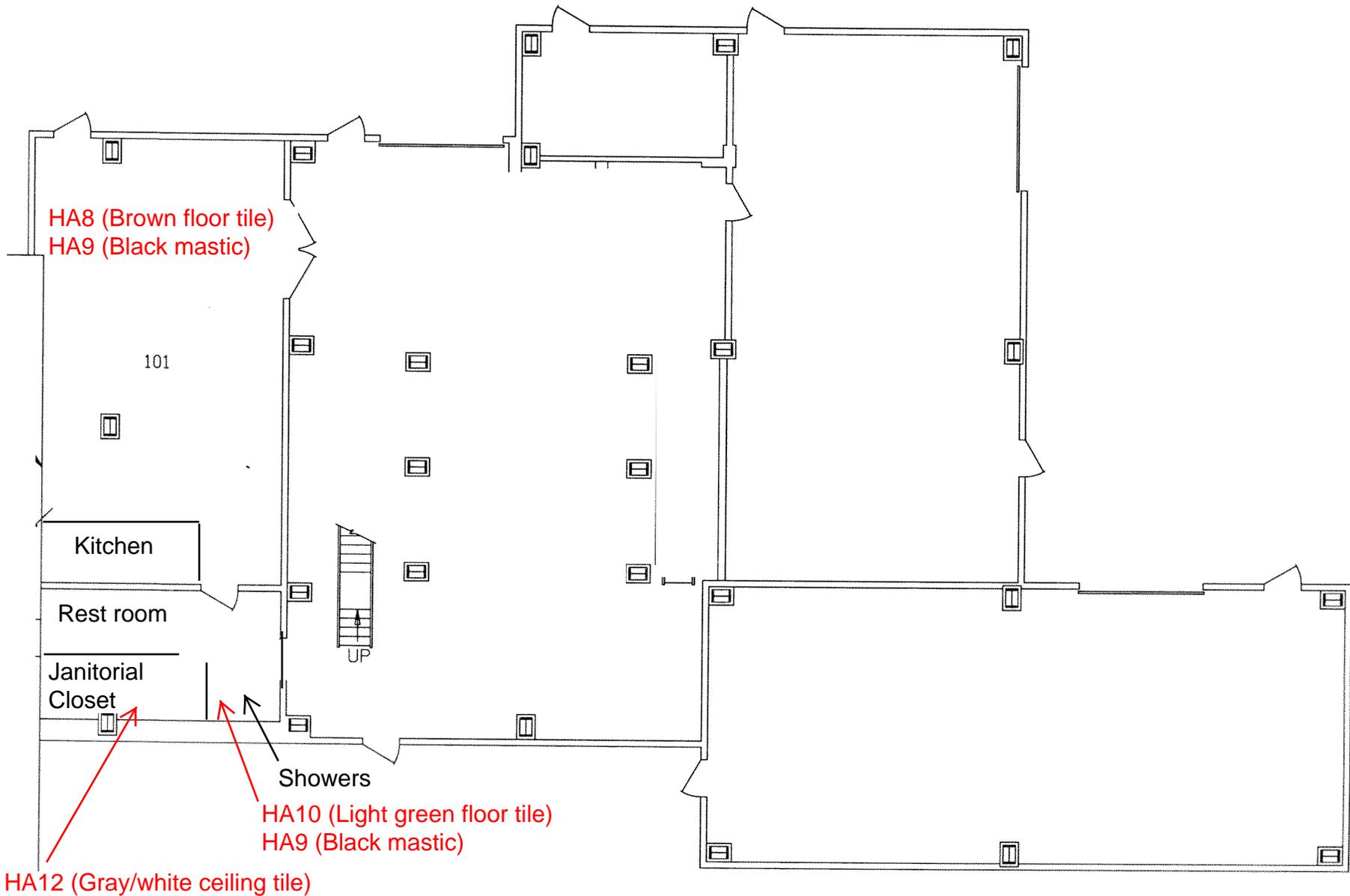
Building 811
1st Level
EDI Suspect ACM Sampling
Locations



(No samples collected from 2nd level)

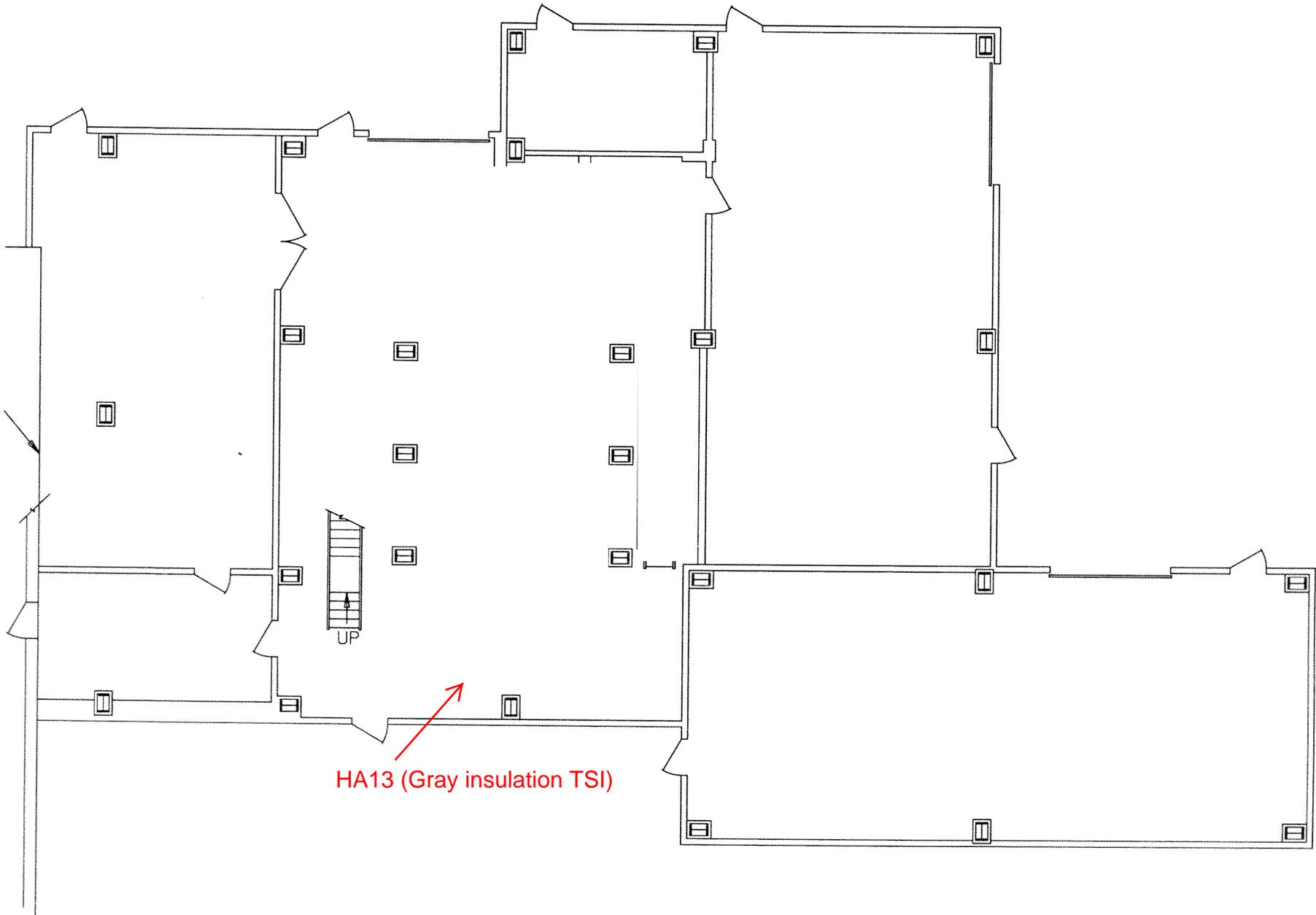
Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012

Building 811
2nd Level
EDI Suspect ACM Sampling
Locations



Building 811
3rd Level
EDI Suspect ACM Sampling
Locations

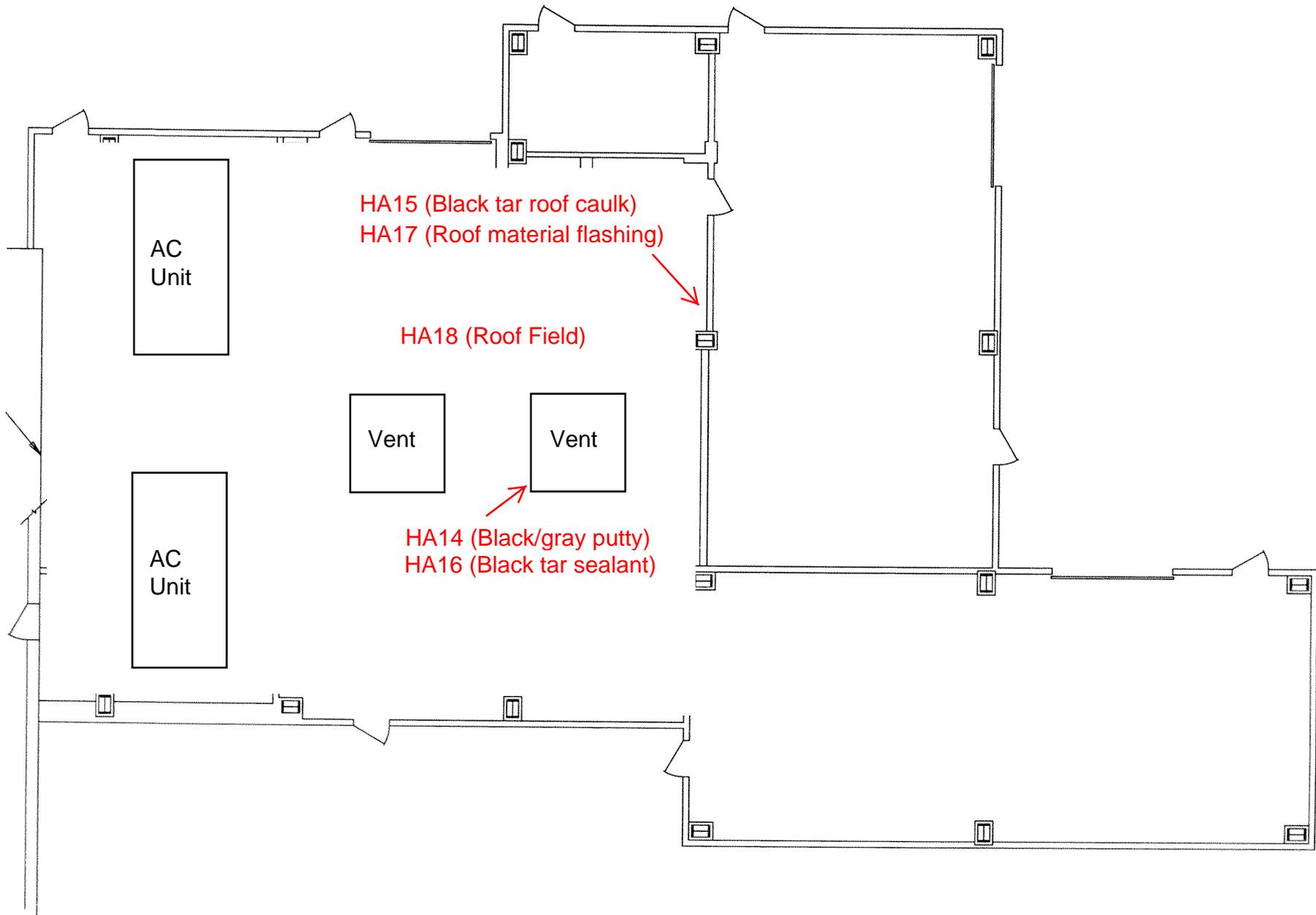
Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012



HA13 (Gray insulation TSI)

Building 811
4th Level
EDI Suspect ACM Sampling
Locations

Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012



Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012

Building 811
Roof
EDI Suspect ACM Sampling
Locations

Appendix C: Asbestos Laboratory Results and Certifications



International Asbestos
Testing Laboratories

9000 Commerce Parkway Suite B Mt. Laurel, NJ 0805
Telephone: 856-231-9449 Fax: 856-231-981

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/12/2011
Report No.: 242558
Project: Naval Station Great Lake
Project No.: 1602.029.01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4325597
Client No.: P-422-HA-10-28
Description / Location: White Insulation
TSI 12" Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325598
Client No.: P-422-HA-10-29
Description / Location: White Insulation
TSI 12" Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325599
Client No.: P-422-HA-10-30
Description / Location: White Insulation
TSI 12" Pipe

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325600
Client No.: P-422-HA-11-31
Description / Location: White Insulation
TSI 12" Elbow

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188
This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.

Analytical Method

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Approved By:

Date: 6/12/2011

Frank E. Ehrenfeld III

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/12/2011
Report No.: 242558
Project: Naval Station Great Lake
Project No.: 1602.029.01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4325601 **Description / Location:** White Insulation
TSI 12" Elbow
Client No.: P-422-HA-11-32

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325602 **Description / Location:** White Insulation
TSI 12" Elbow
Client No.: P-422-HA-11-33

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325603 **Description / Location:** White Insulation
13" Pipe
Client No.: P-429-HA-14-42

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325604 **Description / Location:** White Insulation
10" Elbow
Client No.: P-429-HA-15-43

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.
Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/12/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/12/2011
Report No.: 242558
Project: Naval Station Great Lake
Project No.: 1602.029.01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4325605
Client No.: P-429-HA-15-44
Description / Location: White/Off-White Insulation
10" Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

Lab No.: 4325606
Client No.: P-429-HA-15-45
Description / Location: White Insulation
10" Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325607
Client No.: P-429-HA-12-34
Description / Location: White Insulation
12" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325608
Client No.: P-429-HA-12-35
Description / Location: White Insulation
12" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Accreditations:

NIST-NVLAP No. 101165-0

NY-DOH No. 11021

AIHA-LAP, LLC No. 100188

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Analytical Method

EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/12/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/12/2011
Report No.: 242558
Project: Naval Station Great Lake
Project No.: 1602.029.01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4325609 **Description / Location:** White Insulation
Client No.: P-429-HA-12-36 12" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325610 **Description / Location:** White Insulation
Client No.: P-429-HA-13-37 12" Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325611 **Description / Location:** White Insulation
Client No.: P-429-HA-13-38 12" Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325612 **Description / Location:** White Insulation
Client No.: P-429-HA-13-39 12" Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method

EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/12/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/12/2011
Report No.: 242558
Project: Naval Station Great Lake
Project No.: 1602.029.01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4325613 **Description / Location:** White Insulation
Client No.: P-429-HA-14-40 10" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325614 **Description / Location:** White Insulation
Client No.: P-429-HA-14-41 10" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325615 **Description / Location:** White Insulation
Client No.: P-416-HA-1-01 18" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325616 **Description / Location:** White Insulation
Client No.: P-416-HA-2-04 12" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method

EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/12/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/12/2011
Report No.: 242558
Project: Naval Station Great Lake
Project No.: 1602.029.01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4325617 **Description / Location:** Black Insulation
Client No.: P-416-HA-3-07 Expansion Joint

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 4325618 **Description / Location:** White Insulation
Client No.: P-417-HA-4-10 18" Elbow TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325619 **Description / Location:** White Insulation
Client No.: P-417-HA-5-13 18" E-W Pipe TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325620 **Description / Location:** White Insulation
Client No.: P-417-HA-1-3 18" E-W Pipe TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

*This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government
This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method

EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/12/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/12/2011
Report No.: 242558
Project: Naval Station Great Lake
Project No.: 1602.029.01

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4325621 **Description / Location:** White Insulation
Client No.: P-417-HA-4-12 18" E-W Pipe TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325622 **Description / Location:** White Insulation
Client No.: P-417-HA-2-6 12" E-W Pipe TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4325623 **Description / Location:** White Insulation
Client No.: P-417-HA-5-15 12" E-W Elbow TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 6/12/2011



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
 Chicago, Illinois 60603
 Phone: 312-345-1400
 Fax: 312-345-0529

Offices also in:
 Columbus, Ohio
 Gary, Indiana
 Milwaukee, Wisconsin

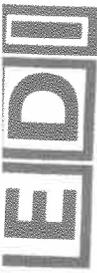
27

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No. <i>Jussaw / 1602-029-01</i>		2. Sampling Site Address/Contact Telephone No. <i>Naval Station Great Lakes</i>		Indicate Analysis Requested																
3. Sampled by (Signature) <i>[Signature]</i>		4. # of Samples in Shipment <i>21</i>		6. Date Results Needed <i>3-22-11 SAT</i>																
Item No.	Sample Number	Sample Location/Description	Matrix							Method Preserved			Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	Laboratory Number		
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE							OTHER	
1	PC-423- HA-3-7	Gray paint on 12" x 18" pipes PIT #423																		
2	PC-419- HA-01-01	Gray paint on valve PIT #419																		
3	PC-419- HA-2-04	Green paint on valve fitting PIT #419																		
4	PC-422- HA-4-10	Pastel Green paint PIT #422																		
5	P-422- HA-10-28	TSI 12" Pipe																		
6	P-422- HA-10-29	TSI 12" pipe																		
7	P-422- HA-10-30	TSI 12" pipe																		
8	P-422- HA-11-31	TSI 12" elbow																		
9	P-422- HA-11-32	TSI 12" elbow																		
10	P-422- HA-11-33	TSI 12" elbow																		
Time In:			Total Hours:			Signature:			Print Name:			Date/Time Released			Company/Agency			Condition Noted		
Released by (Signature) <i>[Signature]</i>			Released by (Signature) <i>[Signature]</i>			Date/Time Released <i>6/7/11 1600</i>			Date/Time Released <i>6/12/11</i>			Company/Agency RECEIVED			Condition Noted D					
Comments:			To Archive/Disposal			Date/Time Released <i>6/12/11</i>			Date/Time Released <i>JUN -9 2011</i>			Company/Agency RECEIVED			Condition Noted D					

White—Client/Customer Copy
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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

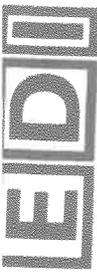
33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.		3. Date Results Needed										Indicate Analysis Requested		Laboratory Number							
Sampled by (Signature)		4. # of Samples in Shipment		5. Date of Sample Shipment										6. Date Results Needed									
Item No.	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers			
1	P-429- 338 HA-14-42	1.5" pipe	X						X					X		6/6					X	4325603	
2	P-429- 338 HA-15-43	10" Elbow																				4325604	
3	P-429- 338 HA-15-44	10" Elbow																				4325605	
4	P-429- 338 HA-15-45	10" Elbow																				4325606	
5	P-429- 338 HA-12-34	12" pipe																				4325607	
6	P-429- 338 HA-12-35	12" pipe																				4325608	
7	P-429- 338 HA-12-36	12" pipe																				4325609	
8	P-429- 338 HA-12-37	12" Elbow																				4325610	
9	P-429- 338 HA-13-38	12" Elbow																				4325611	
10	P-429- 338 HA-13-39	12" Elbow																				4325612	
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Company/Agency Affiliation:		Condition Noted:											

Comments:



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Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested							
Jensen / 1602-029-01		Marl Station Great Lakes																	
3. Sampled by (Signature)		4. # of Samples in Shipment		5. Date of Sample Shipment										6. Date Results Needed					
[Signature]		31		3-Day 7AM															
Item No	Sample Number	Sample Location/Description	Matrix						Method Preserved				TIME (Minutes)	# of Containers	Laboratory Number				
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ O ₂	ICE	NONE				OTHER	Date	Time	
1	P-429- HA-14-40	10" pipe	X													X	4325613		
2	P-429- HA-14-41	10" pipe															4325614		
3	P-416- HA-1-01	18" pipe															4325615		
4	P-416- HA-2-04	12" pipe																	
5	P-416- HA-3-07	Expansion joint																	
6	P-417- HA-4-10	18" elbow top															4325616		
7	P-418-417- HA-5-13	12" elbow top															4325617		
8	P-417- HA-6-16	18" E-W pipe top															4325618		
9	P-417- HA-7-19	18" E-W pipe top															4325619		
10	P-417- HA-8-22	12" E-W pipe top															4325620		
Time In: -2-6		Time Out:		Total Hours:										Signature:		Print Name:			
[Signature]		[Signature]		Released by (Signature)										Date/Time Released		Company/Agency Affiliation		Condition Noted	
[Signature]		[Signature]		To Archive/Disposal															

Comments:



Environmental Design International inc.

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Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

Offices also in:
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Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No. <i>Jessie V / 1602-029-01</i>		2. Sampling Site Address/Contact Telephone No. <i>Nanol Station Great Lakes</i>		Indicate Analysis Requested												
3. Sampled by (Signature) <i>[Signature]</i>		4. # of Samples in Shipment <i>3</i>		6. Date Results Needed <i>3-Day SAT</i>												
Item No.	Sample Number	Sample Location/Description	Matrix							Method Preserved			TIME (Minutes)	# of Containers	Laboratory Number	
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE				OTHER
1	<i>P-417-5-D HA-9-05</i>	<i>12" E-W Elbow tsi</i>														
2																
3																
4																
5																
6																
7																
8																
9																
10																
Time In:			Time Out:			Total Hours:			Signature:							
Released by (Signature) <i>[Signature]</i>		Date/Time Released <i>6/17/11 1000</i>		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted				
Comments:													To Archive/Disposal			

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328464 **Description / Location:** White Insulation
Client No.: P-410-HA-1-02 18" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4328465 **Description / Location:** White Insulation
Client No.: P-410-HA-2-05 12" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4328466 **Description / Location:** Black Insulation
Client No.: P-401A-HA-3-08 Expansion Joint

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Lab No.: 4328467 **Description / Location:** Black Insulation
Client No.: P-401-HA-3-09 Expansion Joint

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

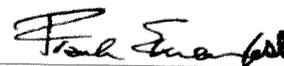
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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Approved By:



Date: 6/14/2011

Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328468 **Description / Location:** White Insulation
Client No.: P-410-HA-4-11 18" Pipe Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4328469 **Description / Location:** White Insulation
Client No.: P-410-HA-5-14 12" Pipe Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	Trace

Lab No.: 4328470 **Description / Location:** Brown Fibrous
Client No.: P-410-HA-16-41 Paper Between Metal Jackets

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	Trace

Lab No.: 4328471 **Description / Location:** Brown Fibrous
Client No.: P-411-HA-16-46 Paper Between Metal Jackets

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	Trace

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328472 **Description / Location:** Brown Fibrous
Client No.: P-408-HA-16-48 Paper Between Metal Jackets

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Lab No.: 4328473 **Description / Location:** Grey Caulk
Client No.: P-410-HA-17-49 Pipe Seals

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4328474 **Description / Location:** Grey Caulk
Client No.: P-408-HA-17-50 Pipe Seals

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4328475 **Description / Location:** Grey Caulk
Client No.: P-405-HA-17-51 Pipe Seals

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328476 **Description / Location:** Grey/White Insulation
Client No.: P-2-HA-18-52

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
25	Chrysotile	40	Fibrous Glass	35

Lab No.: 4328477 **Description / Location:** Black Tar Paper
Client No.: P-2-HA-19-55 Pipe Wrap

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Cellulose	5

Lab No.: 4328478 **Description / Location:** Brown Insulation
Client No.: P-6-HA-20-58 Fiberglass Wrap 12"

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	None Detected

Lab No.: 4328478 **Description / Location:** Brown Woven Fibers
Client No.: P-6-HA-20-58 Fiberglass Wrap 12" **Layer No.: 2**

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328479	Description / Location: Brown Insulation		
Client No.: P-6-HA-21-61	Fiberglass Wrap 10"		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	100	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			None Detected

Lab No.: 4328479	Description / Location: Brown Woven Fibers		Layer No.: 2
Client No.: P-6-HA-21-61	Fiberglass Wrap 10"		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	100	Cellulose
			<u>% Non-Fibrous Material</u>
			None Detected

Lab No.: 4328480	Description / Location: White Insulation		
Client No.: P-6-HA-22-64	18" Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
PC 2.6	Chrysotile	80	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			PC 17.4

Lab No.: 4328480	Description / Location: Black Tar		Layer No.: 2
Client No.: P-6-HA-22-64	18" Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
12	Chrysotile	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			88

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328481 **Description / Location:** White Insulation
Client No.: P-6-HA-23-67 12" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 4.5	Chrysotile	80	Fibrous Glass	PC 15.5

Lab No.: 4328481 **Description / Location:** Black Tar **Layer No.:** 2
Client No.: P-6-HA-23-67 12" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
12	Chrysotile	None Detected	None Detected	88

Lab No.: 4328482 **Description / Location:** White Insulation
Client No.: P-6-HA-24-70 10" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.7	Chrysotile	80	Fibrous Glass	PC 16.3

Lab No.: 4328482 **Description / Location:** Black Tar **Layer No.:** 2
Client No.: P-6-HA-24-70 10" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
12	Chrysotile	None Detected	None Detected	88

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328483	Description / Location: White Insulation			
Client No.: P-4-HA-25-73	2" Pipe/Valves Fitting			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 4.0	Chrysotile	80	Fibrous Glass	16

Lab No.: 4328484	Description / Location: White Insulation			
Client No.: P-9-HA-26-76	Fitting, Wrap/Valve			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	Trace

Lab No.: 4328484	Description / Location: White Woven Fibers	Layer No.: 2		
Client No.: P-9-HA-26-76	Fitting, Wrap/Valve			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Fibrous Glass	5

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328485	Description / Location: White Insulation		
Client No.: P-9-HA-26-77	Fitting Valves		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
PC 3.8	Chrysotile	80	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			PC 96.2

Lab No.: 4328485	Description / Location: Black Insulation		Layer No.: 2
Client No.: P-9-HA-26-77	Fitting Valves		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
12	Chrysotile	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			88

Lab No.: 4328486	Description / Location: White Insulation		
Client No.: P-9-HA-26-79	Fitting On Valves		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	15	Cellulose
			<u>% Non-Fibrous Material</u>
			85

Lab No.: 4328487	Description / Location: White Insulation		
Client No.: P-9-HA-27-80	2' Valve Wrap		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
85	Chrysotile	15	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			Trace

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328488 **Description / Location:** White Insulation
Client No.: P-13-HA-28-83 10" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
12	Chrysotile	None Detected	None Detected	88

Lab No.: 4328489 **Description / Location:** Off-White Insulation
Client No.: P-14-HA-29-86 18" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	12	Cellulose	88

Lab No.: 4328490 **Description / Location:** Yellow Insulation
Client No.: P-14-HA-30-89 18" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 4328491 **Description / Location:** White Insulation
Client No.: P-34-HA-30-90 18" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328492	Description / Location: Yellow Insulation			
Client No.: P-14-HA-31-92	12" Pipe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 4328493	Description / Location: Yellow Insulation			
Client No.: P-14-HA-32-95	12" Fitting			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 4328494	Description / Location: White Insulation			
Client No.: P-34-HA-32-96	12" Fitting			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 4328495	Description / Location: Brown Fibrous			
Client No.: P-14-HA-33-98	Paper Between Metal Sheets			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Cellulose	None Detected

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188
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Analytical Method EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 6/14/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/14/2011
Report No.: 243029
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4328496	Description / Location: Brown/Black Wrap			
Client No.: P-34-HA-34-101	12" Fitting			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Cellulose	20

Lab No.: 4328497	Description / Location: White Insulation			
Client No.: P-412-HA-200-01	8" Pipe			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Cellulose	98

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: R. Caran

Date: 6/14/2011



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
 Chicago, Illinois 60603
 Phone: 312-345-1400
 Fax: 312-345-0529

Offices also in:
 Columbus, Ohio
 Gary, Indiana
 Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested		Laboratory Number					
3. Sampled by (Signature)		5. Date of Sample Shipment					6. Date Results Needed					TIME (Minutes)	# of Containers						
Item No.	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	MATRIX	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	Date	Time	VOLUME (L)	
1	PC-P239E- HA-4-11	Pastel Green paint	X					X						X		6/7			
2	P-410- HA-1-02	18" Pipe																	
3	P-410- HA-2-05	12" Pipe																	
4	P-401A- HA-3-08	Expansion Joint																	
5	P-401- HA3-09	Expansion Joint																	
6	P-410- HA-4-11	18" Pipe Elbow																	
7	P-410- HA-5-14	12" Pipe Elbow																	
8	P-410- HA-16-41	Paper between metal brackets																	
9	P-411- HA-16-46	Paper between metal brackets																	
10	P-408- HA-16-48	Paper between metal brackets																	
Time In:			Total Hours:			Signature:			Print Name:										
Released by (Signature)			Delivery Method			Released by (Signature)			Date/Time Released			Company/Agency Affiliated							
6/10/2011 0600						6/10/2011			6/14/11			RECEIVED							
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 Chicago, Illinois 60603
 Phone: 312-345-1400
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Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested					
J. J. Janssen / 1602.029		Naval Station Great Lakes															
3. Sampled by (Signature)		5. Date of Sample Shipment				6. Date Results Needed											
<i>[Signature]</i>		6/7															
Item No.	Sample Number	Sample Location/Description	Matrix				Method Preserved				Date	Sampling Time	VOLUME (L)	TIME (Minutes)	# of Containers	Laboratory Number	
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄							ICE
1	P-410-	Gray Pipe Seals									X						4328473
	HA-17-49																4328474
2	P-408-	Gray Pipe Seals															4328475
	HA-17-50																4328476
3	P-405-	Gray Pipe Seals															4328477
	HA-17-51																4328478
4	P-2-	TSI															4328479
	HA-18-52																4328480
5	P-2-	Black Pipe - Unif															4328481
	HA-19-55																4328482
6	P-6-	Fiber Labels Wrap 12"															
	HA-20-58																
7	P-6-	Fiber Labels Wrap 10"															
	HA-21-61																
8	P-6-	18" Fittings															
	HA-22-64																
9	P-6-	12" Fittings															
	HA-23-67																
10	P-6-	10" Fittings															
	HA-24-70																
Time In:		Time Out:		Total Hours:		Signature:		Print Name:									
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted					
<i>[Signature]</i>		6/24/01 0800															
Comments:																	
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Environmental Design International inc.

33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

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Milwaukee, Wisconsin

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33 W. Monroe Street, Suite 1825 Chicago, Illinois 60603 Phone: 312-345-1400 Fax: 312-345-0529		Naval Station Great Lakes		6/18		6/18		6/18		6/18		X			4328483						
Item No.	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE		OTHER	Date	Sampling Time	VOLUME (L)	TIME (Minutes)	# of Containers
1	P-4- HA-25-73	2" Pipe/valves TSI Fitting	X						X							6/18					
2	P-9- HA-26-76	Fittings, Wrap/valves TSI	X						X												
3	P-9- HA-26-77	Fitting valves	X						X												
4	P-9- HA-26-79	Fitting on valves	X						X												
5	P-9- HA-27-80	2 foot valve wrap TSI	X						X												
6	P-13- HA-28-83	10" Fitting	X						X												
7	P-14- HA-29-86	18" Pipe	X						X												
8	P-14- HA-30-89	18" Fitting	X						X												
9	P-14- HA-30-90	18" Fitting	X						X												
10	P-14- HA-31-92	12" Pipe	X						X												
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Date/Time Released		Company/Agency Affiliation		Condition Noted							

Comments:



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 Gary, Indiana
 Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested					
To Jansen		Naval Station Great Lakes										PLM					
3. Sampled by (Signature)		5. Date of Sample Shipment				6. Date Results Needed						# of Containers	TIME (Minutes)	Laboratory Number			
[Signature]		[Blank]				[Blank]											
Item No.	Sample Number	Sample Location/Description	Matrix				Method Preserved				Date	Sampling Time	VOLUME (L)				
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	H2SO4				ICE	NONE	OTHER	
1	P-14- HA-32-95	12" Fitting									X				6/8		4328493
2	P-34- HA-32-96	12" Fitting tSi															4328494
3	P-14- HA-33-98	Paper between metal sheets															4328495
4	P-34- HA-34-101	12" Fitting Wrap															4328496
5	P-412- HA-200-01	8" Pipe tSi									X				6/8		4328497
6																	
7																	
8																	
9																	
10																	
Time In:		Time Out:				Total Hours:				Signature:				Print Name:			
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted					
[Signature]		6/10/00															
Comments:													To Archive/Disposal				

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335046
Client No.: A-116-HA-212-02
Description / Location: White Wrap
Breach Next To Bldg. 11G

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

Lab No.: 4335047
Client No.: A-116-HA-212-03
Description / Location: White Wrap
Breach Next To Bldg. 11G

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

Lab No.: 4335048
Client No.: A-116-HA-213-02
Description / Location: White Insulation
Next To Bldg. 11G

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.4	Chrysotile	10	Fibrous Glass	PC 86.6

Lab No.: 4335049
Client No.: A-116-HA-213-03
Description / Location: White Insulation
Next To Bldg. 11G

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 8.0	Chrysotile	5	Fibrous Glass	87

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method

EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: R. Caran

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

Date: 6/19/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335050 **Description / Location:** Black Insulation
Client No.: P-88-HA-215-02 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98

Lab No.: 4335051 **Description / Location:** Yellow Insulation
Client No.: P-90-HA-216-03 12" TSI Steam Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	55
		30	Fibrous Glass	

Lab No.: 4335055 **Description / Location:** Yellow Insulation
Client No.: P-90-HA-218-01 8" TSI Steam Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	70
		10	Fibrous Glass	

Lab No.: 4335056 **Description / Location:** Lt. Grey Insulation
Client No.: P-91-HA-218-02 TSI 8"

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Mineral Wool	98

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335057 **Description / Location:** Lt. Tan Insulation
Client No.: P-91-HA-218-03 TSI 8"

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Mineral Wool	2

Lab No.: 4335058 **Description / Location:** Black Insulation
Client No.: P-88-HA-219-01 12" Line

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Mineral Wool	100

Lab No.: 4335059 **Description / Location:** Tan Insulation
Client No.: P-111-HA-220-01 8" Steam Line

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Mineral Wool	2

Lab No.: 4335060 **Description / Location:** Tan Insulation
Client No.: P-111-HA-221-01 12" Steam Line

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Mineral Wool	2

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

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Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335061 **Description / Location:** Tan/Black Fibrous/Mastic
Client No.: P-93-HA-222-01 18" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	35
		25	Mineral Wool	

Lab No.: 4335062 **Description / Location:** Tan/Black Fibrous/Mastic
Client No.: P-93-HA-223-01 18" TSI - Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	15
		55	Mineral Wool	

Lab No.: 4335063 **Description / Location:** Lt. Tan Insulation
Client No.: P-107-HA-223-02 18" TSI - Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	90	Mineral Wool	10

Lab No.: 4335064 **Description / Location:** White Insulation
Client No.: P-104-HA-223-03 18" TSI - Elbow

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

Comments: (PC) indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

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Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335065 **Description / Location:** Tan Insulation
Client No.: P-107-HA-224-01 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Mineral Wool	5

Lab No.: 4335066 **Description / Location:** White Insulation
Client No.: P-104-HA-224-02 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	110

Lab No.: 4335067 **Description / Location:** Tan Insulation
Client No.: P-107-HA-225-01 4" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Mineral Wool	2

Lab No.: 4335068 **Description / Location:** White Insulation
Client No.: P-119-HA-226-01 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method (PC-Trace) represents this limit of quantitation (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

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Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335069	Description / Location: Tan Insulation		
Client No.: P-124-HA-226-02	12" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	10	Cellulose
		88	Mineral Wool
			2

Lab No.: 4335070	Description / Location: Grey Insulation		
Client No.: P-133A-HA-227-01	12" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	98	Mineral Wool
			2

Lab No.: 4335071	Description / Location: Black Tar/Fibrous		
Client No.: P-135-HA-227-02	12" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	40	Cellulose
			60

Lab No.: 4335072	Description / Location: Black Tar/Fibrous		
Client No.: P-135-HA-228-01	8" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	30	Cellulose
			70

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

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Report Date: 6/20/2011
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Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335073	Description / Location: White Insulation		
Client No.: P-119-HA-233-01	8" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4335074	Description / Location: Tan Insulation		
Client No.: P-124-HA-233-02	8" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	60	Cellulose
		35	Mineral Wool
			<u>% Non-Fibrous Material</u>
			5

Lab No.: 4335075	Description / Location: Black Wrap		
Client No.: P-158A-HA-34-104	18" Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	Trace	Cellulose
		5	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			95

Lab No.: 4335076	Description / Location: Black Wrap		
Client No.: P-158A-HA-34-105	12" Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	Trace	Cellulose
		3	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			97

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

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Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335077 **Description / Location:** Black Wrap
Client No.: P-158A-HA-35-106 12" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

Lab No.: 4335078 **Description / Location:** White Wrap
Client No.: P-155-HA-36-107 12" Valve, Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Lab No.: 4335079 **Description / Location:** Tan Insulation
Client No.: P-146-HA-36-108 12" Valve, Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Synthetic	95

Lab No.: 4335080 **Description / Location:** Tan/Black Insulation/Tar
Client No.: P-137-HA-36-109 12" Valve, Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
4.1	Amosite	15	Mineral Wool	PC 65.9
15	Chrysotile			

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
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Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335081	Description / Location: Tan Insulation		
Client No.: P-155-HA-37-110	12" Valve, Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
10	Chrysotile	15	Mineral Wool
			<u>% Non-Fibrous Material</u>
			75

Lab No.: 4335082	Description / Location: Grey/Black Insulation/Tar		
Client No.: P-146-HA-37-111	12" Valve, Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
15	Chrysotile	20	Mineral Wool
			<u>% Non-Fibrous Material</u>
			65

Lab No.: 4335083	Description / Location: White/Black Insulation		
Client No.: P-137-HA-37-112	12" Valve, Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
0.50	Chrysotile	None Detected	None Detected
20	Amosite		
			<u>% Non-Fibrous Material</u>
			PC 79.5

Lab No.: 4335084	Description / Location: White/Tan Insulation		
Client No.: P-150-HA-39-114	4" Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	5	Mineral Wool
			<u>% Non-Fibrous Material</u>
			95

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

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Date: 6/20/2011

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Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335085 **Description / Location:** White Insulation
Client No.: P-150-HA-39-115 4" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Synthetic	100
		Trace	Mineral Wool	

Lab No.: 4335086 **Description / Location:** Lt. Tan Insulation
Client No.: P-150-HA-39-116 4" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Synthetic	90

Lab No.: 4335087 **Description / Location:** White Insulation
Client No.: P-150-HA-40-117 4" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Synthetic	90

Lab No.: 4335088 **Description / Location:** White Insulation
Client No.: P-150-HA-40-118 4" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Synthetic	95

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method

EPA 600/R-93/116

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Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335089 **Description / Location:** White Insulation
Client No.: P-150-HA-40-119 4" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Synthetic	98

Lab No.: 4335090 **Description / Location:** White Insulation
Client No.: P-150-HA-41-120 2" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Synthetic	98

Lab No.: 4335091 **Description / Location:** White Insulation
Client No.: P-150-HA-41-121 2" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Synthetic	97

Lab No.: 4335092 **Description / Location:** White Insulation
Client No.: P-150-HA-41-122 2" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Synthetic	95

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

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Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335093 **Description / Location:** White Insulation
Client No.: P-150-HA-42-123 2" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	3	Synthetic	97

Lab No.: 4335094 **Description / Location:** White Insulation
Client No.: P-150-HA-42-124 2" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Synthetic	100
		Trace	Mineral Wool	

Lab No.: 4335095 **Description / Location:** White Insulation
Client No.: P-150-HA-42-125 2" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Synthetic	95

Lab No.: 4335096 **Description / Location:** Tan Insulation
Client No.: P-112-HA-229-01 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Mineral Wool	25

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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This report shall not be reproduced except in full, without written approval of the laboratory.*

Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335097 **Description / Location:** Black Wrap
Client No.: P-191-HA-229-02 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Synthetic	90
		10	Fibrous Glass	

Lab No.: 4335097 **Description / Location:** Tan Insulation
Client No.: P-191-HA-229-02 12" TSI **Layer No.:** 2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Mineral Wool	2

Lab No.: 4335098 **Description / Location:** Brown Insulation
Client No.: P-112-HA-230-01 8" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Mineral Wool	25

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335099	Description / Location: Black Wrap		
Client No.: P-191-HA-230-02	8" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	Trace	Synthetic
		5	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			95

Lab No.: 4335099	Description / Location: Silver/Pink Insulation		Layer No.: 2
Client No.: P-191-HA-230-02	8" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	95	Mineral Wool
			<u>% Non-Fibrous Material</u>
			5

Lab No.: 4335100	Description / Location: White Insulation		
Client No.: P-183-HA-231-01	12" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4335101	Description / Location: White Insulation		
Client No.: P-183-HA-231-02	12" TSI		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335102 **Description / Location:** Tan Insulation
Client No.: P-196-HA-231-03 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Mineral Wool	5

Lab No.: 4335103 **Description / Location:** Tan Insulation
Client No.: P-199-HA-231-04 12" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	75	Mineral Wool	25

Lab No.: 4335104 **Description / Location:** Grey Insulation
Client No.: P-196-HA-232-01 8" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	90	Mineral Wool	10

Lab No.: 4335105 **Description / Location:** Grey Insulation
Client No.: P-199-HA-232-02 8" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	90	Mineral Wool	10

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335106	Description / Location: Yellow Insulation			
Client No.: P-199A-HA-232-03	8" TSI			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Mineral Wool	2

Lab No.: 4335107	Description / Location: Black Tar			
Client No.: P-5-HA-235-01	8" TSI, Pit 5" Maryland St.			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
20	Chrysotile	Trace	Cellulose	80

Lab No.: 4335108	Description / Location: Black Tar			
Client No.: P-9-HA-236-01	8" TSI, Pit 9" Maryland St.			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
15	Chrysotile	Trace	Cellulose	85

Lab No.: 4335109	Description / Location: Grey Insulation			
Client No.: P-241-HA-234-01	12" TSI			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Mineral Wool	2

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335110 **Description / Location:** Off-White Insulation
Client No.: A-B26-HA-38-114 18" TSI Fitting, Farragot Bridge

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	95

Lab No.: 4335111 **Description / Location:** White Insulation
Client No.: A-B2016-HA-38-115 18" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

Lab No.: 4335112 **Description / Location:** Off-White Insulation
Client No.: A-B2801-HA-38-116 18" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Lab No.: 4335113 **Description / Location:** Off-White Insulation
Client No.: A-B26-HA-39-117 18" TSI

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335114 **Description / Location:** Off-White Insulation
Client No.: A-B2801-HA-39-118 18" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Lab No.: 4335115 **Description / Location:** Off-White Insulation
Client No.: A-B2801-HA-39-119 18" Pipe

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	90

Lab No.: 4335116 **Description / Location:** Grey Wrap
Client No.: A-B2016-HA-40-120 Fitting Patch

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.7	Chrysotile	10	Mineral Wool	PC 88.3

Lab No.: 4335117 **Description / Location:** Tan Wrap
Client No.: A-B2016-HA-41-121 Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
90	Chrysotile	5	Cellulose	5

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/20/2011
Report No.: 243657
Project: Naval Station Great Lakes
Project No.: 1602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4335118 **Description / Location:** Tan Wrap
Client No.: A-B2016-HA-41-122 Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
95	Chrysotile	None Detected	None Detected	5

Lab No.: 4335119 **Description / Location:** Tan Wrap
Client No.: A-B2016-HA-41-123 Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
95	Chrysotile	None Detected	None Detected	5

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: V. Smith

Date: 6/20/2011



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
 Chicago, Illinois 60603
 Phone: 312-345-1400
 Fax: 312-345-0529

Offices also in:
 Columbus, Ohio
 Gary, Indiana
 Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested							
J. J. Janssen / 1602-029		Naval Station Great Lakes																	
3. Sampled by (Signature)		5. Date of Sample Shipment				6. Date Results Needed						# of Containers	TIME (Minutes)	Laboratory Number					
[Signature]		6/16/11				6/21/11													
Item No.	Sample Number	Sample Location/Description	Matrix							Method Preserved			VOLUME (L)	L					
			GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE			NONE	OTHER			
1	P-91-HA-	TSI-8"	X										X				1		4335056
2	218-02																		4335057
3	P-91-HA-																		4335058
4	218-03	Black insulation on 12" pipe																	4335059
5	P-88-HA-	8" Steam Line																	4335060
6	219-01																		4335061
7	P-11-HA-	12" Steam Line																	4335062
8	220-01																		4335063
9	P-93-HA-	18" tsi insulation																	4335064
10	221-01																		4335065
	P-107-HA-	18" tsi elbow insulation																	
	223-02																		
	P-104-HA-																		
	223-03																		
	P-107-HA-	12" tsi																	
	224-01																		
Time in:		Time Out:		Total Hours:		Signature:		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted					
						[Signature]		[Signature]		6/16/11 11:00		VGS 6/20/11							

Comments:



Environmental Design International inc.

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
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Offices also in:
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Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested					
J. J. Johnson / 1602-029		New Station Great Lakes															
3. Sampled by (Signature)		5. Date of Sample Shipment				6. Date Results Needed											
[Signature]		6/16/11				6/21/11											
Item No.	Sample Number	Sample Location/Description	Matrix						Method Preserved				VOLUME (L)	TIME (Minutes)	# of Containers	Laboratory Number	
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE					OTHER
1	P-104-HA-																
	224-02	12" tsi															4335066
2	P-104-HA-																
	225-01	4" tsi															4335067
3	P-119-HA-																
	226-01	12" tsi															4335068
4	P-124-HA-																
	226-02																4335069
5	P-133A-HA-																
	227-01	tsi 12"															4385070
6	P-135-HA-																
	227-02																4335071
7	P-135-HA-																
	228-01	tsi 8"															4335072
8	P-119-HA-																
	233-01																4335073
9	P-124-HA-																
	233-02																4335074
10	P-158A-HA-																
	34-104	Filtration bag 18"															4335075
Time In:		Time Out:		Total Hours:		Signature:		Print Name:									
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted					
[Signature]		6/16/11 1100				[Signature]		6/16/11 1100									
Comments:																	
To Archive/Disposal																	



Environmental Design International inc.

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 Chicago, Illinois 60603
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CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested						
J. Morrison / 1602-029		Normal Station Great Lakes																
3. Sampled by (Signature)		5. Date of Sample Shipment				6. Date Results Needed						# of Containers	TIME (Minutes)	VOLUME (L)	Laboratory Number			
[Signature]		6/16/2011				6/21/11												
Item No.	Sample Number	Sample Location/Description	Matrix						Method Preserved				Date	Sampling Time				
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	H2SO4	ICE	NONE					OTHER	
1	P-150-HA-39-116	Fitting 4"							X									
2	P-150-HA-40-117	4" pipe																
3	P-150-HA-40-118																	
4	P-150-HA-40-119																	
5	P-150-HA-41-120	2" pipe																
6	P-150-HA-41-121																	
7	P-150-HA-41-122																	
8	P-150-HA-42-123	2" Fitting																
9	P-150-HA-42-124																	
10	P-150-HA-42-125																	
Time In:		Time Out:		Total Hours:		Signature:		Print Name:										
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted						
[Signature]		6/14/11 11:00				[Signature]												
Comments:																		



Environmental Design
International inc.

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1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested					
Tennessee / 1602-029		Naval Station Great Lakes															
3. Sampled by (Signature)		4. # of Samples in Shipment				5. Date of Sample Shipment						6. Date Results Needed					
<i>[Signature]</i>		74				6/16/11						6/21/11					
Item No.	Sample Number	Sample Location/Description	Matrix				Method Preserved				SAMPLING TIME (Minutes)	# of Containers	Laboratory Number				
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	H2SO4				ICE	NONE	OTHER	Date
1	P-199A-11A-232-03	8" tsi									X						4335106
2	P-5-HA-235-01	8" tsi, Pit 5 "Mayhead St."															4335107
3	P-9-HA-236-01	8" tsi, Pit 9 "Mayhead St."															4335108
4	P-241-HA-234-01	12" tsi															4335109
5	A-B26-HA-38-114	18" tsi fittings, bridge															4335110
6	A-B2016-HA-38-115	18" fittings, map															4335111
7	A-B2801-HA-38-116	18" fitting															4335112
8	A-B26-HA-39-117	tsi 18"															4335113
9	A-B2801-HA-39-118	18" pipe															4335114
10	A-B2801-HA-39-119																4335115
Time In:		Time Out:		Total Hours:		Signature:						Print Name:					
<i>[Signature]</i>		6/16/11 1100															
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted					
Comments:																	
To Archive/Disposal																	

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330449 **Description / Location:** White/Tan Sheetrock
Client No.: B-135-HA-1-01 North

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

Lab No.: 4330450 **Description / Location:** White/Tan Sheetrock
Client No.: B-135-HA-1-02 East

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	60

Lab No.: 4330451 **Description / Location:** White/Tan Sheetrock
Client No.: B-135-HA-1-03 South

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	60

Lab No.: 4330452 **Description / Location:** Tan Vinyl Sheet Flooring
Client No.: B-135-HA-2-04

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	65

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Hargrove

Approved By:


Frank E. Ehrenfeld, III
Laboratory Director

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330453 **Description / Location:** Tan Vinyl Sheet Flooring
Client No.: B-135-HA-2-05

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	65

Lab No.: 4330454 **Description / Location:** Tan Vinyl Sheet Flooring
Client No.: B-135-HA-2-06

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	65

Lab No.: 4330455 **Description / Location:** White Joint Compound
Client No.: B-135-HA-3-07 East

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330456 **Description / Location:** White Joint Compound
Client No.: B-135-HA-3-08 Northwest

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330457 **Description / Location:** White Joint Compound
Client No.: B-135-HA-3-09 Southwest

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330458 **Description / Location:** Black Tar
Client No.: B-11H-HA-1-01 North Roof Field

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4330459 **Description / Location:** Black Tar
Client No.: B-11H-HA-1-02 Roof Field Center

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4330460 **Description / Location:** Black Tar
Client No.: B-11H-HA-1-03 Roof Field South

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330461 **Description / Location:** White/Tan Sheetrock

Client No.: B-1709-HA-1-01

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	59
		1	Fibrous Glass	

Lab No.: 4330462 **Description / Location:** White/Tan Sheetrock

Client No.: B-1709-HA-1-02

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Cellulose	88
		2	Fibrous Glass	

Lab No.: 4330463 **Description / Location:** White Sheetrock

Client No.: B-1709-HA-1-03

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	2	Fibrous Glass	98
		Trace	Cellulose	

Lab No.: 4330464 **Description / Location:** Black Roof Material

Client No.: B-1709-HA-2-04

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Synthetic	65

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330465 **Description / Location:** Black Roof Material
Client No.: B-1709-HA-2-05

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Synthetic	65

Lab No.: 4330466 **Description / Location:** Black Roof Material
Client No.: B-1709-HA-2-06

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Synthetic	65

Lab No.: 4330467 **Description / Location:** Off-White Window Glazing
Client No.: B-11B-HA-1-01 NW

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

Lab No.: 4330468 **Description / Location:** Off-White Window Glazing
Client No.: B-11B-HA-1-02 SW

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330469	Description / Location: Off-White Window Glazing			
Client No.: B-11B-HA-1-03	SW			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330470	Description / Location: Black Shingle			
Client No.: B-11B-HA-2-04	Roof			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Fibrous Glass	90

Lab No.: 4330470	Description / Location: Black Roof Material	Layer No.: 2		
Client No.: B-11B-HA-2-04	Roof			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330470	Description / Location: Blue Roof Material	Layer No.: 3		
Client No.: B-11B-HA-2-04	Roof			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330471 **Description / Location:** Black Shingle
Client No.: B-11B-HA-2-05 Roof

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Fibrous Glass	90

Lab No.: 4330471 **Description / Location:** Black Roof Material
Client No.: B-11B-HA-2-05 Roof **Layer No.:** 2

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330471 **Description / Location:** Blue Roof Material
Client No.: B-11B-HA-2-05 Roof **Layer No.:** 3

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330472	Description / Location: Black Shingle		
Client No.: B-11B-HA-2-06	Roof		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	10	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			90

Lab No.: 4330472	Description / Location: Black Roof Material		Layer No.: 2
Client No.: B-11B-HA-2-06	Roof		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4330472	Description / Location: Blue Roof Material		Layer No.: 3
Client No.: B-11B-HA-2-06	Roof		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4330473	Description / Location: Grey Caulk		
Client No.: B-6509-HA-1-01	Penetration Sealant Entry Hole East		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330474	Description / Location: Grey Caulk		
Client No.: B-6509-HA-1-02	Penetration Sealant Entry Hole North		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4330475	Description / Location: Grey Caulk		
Client No.: B-6509-HA-1-03	Penetration Sealant Pipe East		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4330476	Description / Location: Black Tar		
Client No.: B-6509-HA-2-04	Penetration Sealant South		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	10	Cellulose
			<u>% Non-Fibrous Material</u>
			90

Lab No.: 4330477	Description / Location: Black Tar		
Client No.: B-6509-HA-2-05	Penetration Sealant East		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	10	Cellulose
			<u>% Non-Fibrous Material</u>
			90

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330478	Description / Location: Black Tar		
Client No.: B-6509-HA-2-06	Penetration Sealant North		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	15	Cellulose
			<u>% Non-Fibrous Material</u>
			85

Lab No.: 4330479	Description / Location: Off-White Caulk		
Client No.: B-11G-HA-1-01	Window SE		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4330480	Description / Location: Grey Caulk		
Client No.: B-11G-HA-1-02	Window SW		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4330481	Description / Location: Grey Caulk		
Client No.: B-11G-HA-1-03	Window West		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330482 **Description / Location:** Off-White Caulk
Client No.: B-11G-HA-2-04 Window

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330483 **Description / Location:** Off-White Caulk
Client No.: B-11G-HA-2-05 Window

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330484 **Description / Location:** Off-White Caulk
Client No.: B-11G-HA-2-06 Window

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330485 **Description / Location:** Black Roof Material
Client No.: B-11G-HA-3-07 Roof Field, West

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330486 **Description / Location:** Black Roof Material
Client No.: B-11G-HA-3-08 Roof Field, Center

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330487 **Description / Location:** Black Roof Material
Client No.: B-11G-HA-3-09 Roof Field, East

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330488 **Description / Location:** Black Roof Material
Client No.: B-11G-HA-4-10 Penetrating Seal

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.2	Chrysotile	15	Cellulose	PC 82.8

Lab No.: 4330489 **Description / Location:** Black Roof Material
Client No.: B-11G-HA-4-11 Penetrating Seal

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.9	Chrysotile	15	Cellulose	PC 83.1

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330490	Description / Location: Black Roof Material			
Client No.: B-11G-HA-4-12	Penetrating Seal			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 2.5	Chrysotile	15	Cellulose	PC 82.5

Lab No.: 4330491	Description / Location: Tan Pipe Insulation			
Client No.: A-11E-HA-214-01	Next To Bldg. 11E			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Fibrous Glass	2

Lab No.: 4330492	Description / Location: Black/Silver Pipe Wrap			
Client No.: A-11G-HA-214-02	Next To Bldg. 11G			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.3	Chrysotile	20	Fibrous Glass	PC 58.7
		20	Cellulose	

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330493	Description / Location: Tan Pipe Insulation		
Client No.: A-11G-HA-214-03	South Of HA-214-01		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	98	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			2

Lab No.: 4330493	Description / Location: Tan/Black/Silver Pipe Wrap		Layer No.: 2
Client No.: A-11G-HA-214-03	South Of HA-214-01		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	10	Cellulose
		10	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			80

Lab No.: 4330494	Description / Location: White Insulation		
Client No.: P-83-HA-215-01	18" Stern		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	5	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			95

Lab No.: 4330495	Description / Location: White Insulation		
Client No.: P-83-HA-216-01	18" Stern		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	5	Synthetic
		Trace	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			95

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330496 **Description / Location:** White Insulation
Client No.: P-83-HA-216-02 18" Stern

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Fibrous Glass	100

Lab No.: 4330497 **Description / Location:** White/Tan Sheetrock

Client No.: B-811-HA-1-01

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	40	Cellulose	60

Lab No.: 4330498 **Description / Location:** White/Tan Sheetrock

Client No.: B-811-HA-1-02

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	69
		1	Fibrous Glass	

Lab No.: 4330499 **Description / Location:** White/Tan Sheetrock

Client No.: B-811-HA-1-03

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	35	Cellulose	65
		Trace	Fibrous Glass	

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330500 **Description / Location:** White Joint Compound
Client No.: B-811-HA-2-04

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330501 **Description / Location:** White Joint Compound
Client No.: B-811-HA-2-05

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330502 **Description / Location:** White Joint Compound
Client No.: B-811-HA-2-06

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330503 **Description / Location:** White Floor Tile
Client No.: B-811-HA-3-07

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330504 **Description / Location:** Black Mastic
Client No.: B-811-HA-4-10

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330505 **Description / Location:** White Floor Tile
Client No.: B-811-HA-3-08

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330506 **Description / Location:** Black/Grey Mastic/Leveling Compound
Client No.: B-811-HA-4-11

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330507 **Description / Location:** White Floor Tile
Client No.: B-811-HA-3-09

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330508 **Description / Location:** Black Mastic
Client No.: B-811-HA-4-12

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330508 **Description / Location:** Grey Leveling Compound **Layer No.:** 2
Client No.: B-811-HA-4-12

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330509 **Description / Location:** Black Rubber Baseboard
Client No.: B-811-HA-5-13

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330509 **Description / Location:** Brown Mastic **Layer No.:** 2
Client No.: B-811-HA-5-13

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330510 **Description / Location:** Black Rubber Baseboard
Client No.: B-811-HA-5-14

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330510 **Description / Location:** Brown Mastic **Layer No.:** 2
Client No.: B-811-HA-5-14

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330511 **Description / Location:** Black Rubber Baseboard
Client No.: B-811-HA-5-15

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330511 **Description / Location:** Brown Mastic **Layer No.:** 2
Client No.: B-811-HA-5-15

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

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Report Date: 6/17/2011
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Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330512 **Description / Location:** Grey/White Ceiling Tile

Client No.: B-811-HA-6-16

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	15
		35	Cellulose	

Lab No.: 4330513 **Description / Location:** Grey/White Ceiling Tile

Client No.: B-811-HA-6-17

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	15
		35	Cellulose	

Lab No.: 4330514 **Description / Location:** Grey/White Ceiling Tile

Client No.: B-811-HA-6-18

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	15
		35	Cellulose	

Lab No.: 4330515 **Description / Location:** Tan Insulation

Client No.: B-811-HA-7-19 15" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	98	Fibrous Glass	2

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330516 **Description / Location:** Tan/Grey Insulation
Client No.: B-811-HA-7-20 15" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

Lab No.: 4330517 **Description / Location:** Tan/Grey Insulation
Client No.: B-811-HA-7-21 15" Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	95	Cellulose	5

Lab No.: 4330518 **Description / Location:** Brown Floor Tile
Client No.: B-811-HA-8-22

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

Lab No.: 4330519 **Description / Location:** Brown Floor Tile
Client No.: B-811-HA-9-25

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

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33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330520 **Description / Location:** Brown Floor Tile
Client No.: B-811-HA-8-23

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

Lab No.: 4330521 **Description / Location:** Black Mastic
Client No.: B-811-HA-9-26

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.7	Chrysotile	None Detected	None Detected	PC 98.3

Lab No.: 4330522 **Description / Location:** Brown Floor Tile
Client No.: B-811-HA-8-24

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	Trace	Cellulose	100

Lab No.: 4330523 **Description / Location:** Black Mastic
Client No.: B-811-HA-9-27

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 1.2	Chrysotile	None Detected	None Detected	PC 98.8

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

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Report Date: 6/17/2011
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Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330524 **Description / Location:** Lt.Green Floor Tile
Client No.: B-811-HA-10-28

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330525 **Description / Location:** Black Mastic
Client No.: B-811-HA-11-31

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
PC 3.7	Chrysotile	None Detected	None Detected	PC 96.3

Lab No.: 4330526 **Description / Location:** Lt.Green Floor Tile
Client No.: B-811-HA-10-29

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330527 **Description / Location:** Black Mastic
Client No.: B-811-HA-11-32

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

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Chicago IL 60603

Report Date: 6/17/2011
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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330528 **Description / Location:** Lt.Green Floor Tile
Client No.: B-811-HA-10-30

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330529 **Description / Location:** Black Mastic
Client No.: B-811-HA-11-33

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330530 **Description / Location:** Grey/White Ceiling Tile
Client No.: B-811-HA-12-34

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Fibrous Glass	15
		30	Cellulose	

Lab No.: 4330531 **Description / Location:** Grey/White Ceiling Tile
Client No.: B-811-HA-12-35

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Fibrous Glass	15
		30	Cellulose	

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

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Chicago IL 60603

Report Date: 6/17/2011
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Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330532 **Description / Location:** Grey/White Ceiling Tile
Client No.: B-811-HA-12-36

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	55	Fibrous Glass	15
		30	Cellulose	

Lab No.: 4330533 **Description / Location:** Grey Insulation
Client No.: B-811-HA-13-37 2" Pipe Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Fibrous Glass	70

Lab No.: 4330534 **Description / Location:** Grey Insulation
Client No.: B-811-HA-13-38 2" Pipe Fitting

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Fibrous Glass	50

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Date: 6/17/2011

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Chicago IL 60603

Report Date: 6/17/2011
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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330535	Description / Location: Grey Insulation		
Client No.: B-811-HA-13-39	2" Pipe Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	50	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			50

Lab No.: 4330535	Description / Location: Grey Wrap		Layer No.: 2
Client No.: B-811-HA-13-39	2" Pipe Fitting		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
15	Chrysotile	5	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			80

Lab No.: 4330536	Description / Location: Black/Grey Putty		
Client No.: B-811-HA-14-40	Roof Vents		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
10	Chrysotile	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			90

Lab No.: 4330537	Description / Location: Black/Grey Putty		
Client No.: B-811-HA-14-41	Roof Vents		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
10	Chrysotile	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			90

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

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Chicago IL 60603

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330538 **Description / Location:** Black/Grey Putty
Client No.: B-811-HA-14-42 Roof Vents

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
15	Chrysotile	None Detected	None Detected	85

Lab No.: 4330539 **Description / Location:** Black Tar
Client No.: B-811-HA-15-43 Roof

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4330540 **Description / Location:** Black Tar
Client No.: B-811-HA-15-44 Roof

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4330541 **Description / Location:** Black Tar
Client No.: B-811-HA-15-45 Roof

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Date: 6/17/2011

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Chicago IL 60603

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330542 **Description / Location:** Black Tar
Client No.: B-811-HA-16-46 Penetration Sealant

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	20	Cellulose	80

Lab No.: 4330543 **Description / Location:** Black/Brown Caulk
Client No.: B-811-HA-16-47 Penetration Sealant

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330544 **Description / Location:** Black Tar
Client No.: B-811-HA-16-48 Penetration Sealant

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4330545 **Description / Location:** Black/Silver Roof Material
Client No.: B-811-HA-17-49 Flashing

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Fibrous Glass	90

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: B. Hargrove

Date: 6/17/2011

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330546 **Description / Location:** Black/Silver Roof Material
Client No.: B-811-HA-17-50 Flashing

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	85
		10	Fibrous Glass	

Lab No.: 4330547 **Description / Location:** Black/Silver Roof Material
Client No.: B-811-HA-17-51 Flashing

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	10	Fibrous Glass	90

Lab No.: 4330548 **Description / Location:** Black/Brown Roof Material
Client No.: B-811-HA-18-52 Roof Field

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Synthetic	40
		10	Cellulose	

Lab No.: 4330549 **Description / Location:** Black/Brown Roof Material
Client No.: B-811-HA-18-53 Roof Field

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Synthetic	35
		5	Cellulose	

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330550 **Description / Location:** Black Roof Material
Client No.: B-811-HA-18-54 Roof Field

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Synthetic	40

Lab No.: 4330551 **Description / Location:** White Insulation
Client No.: B-811-HA-19-55

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4330552 **Description / Location:** White Insulation
Client No.: B-811-HA-19-56

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Lab No.: 4330553 **Description / Location:** White Insulation
Client No.: B-811-HA-19-57

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	15	Cellulose	85

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: B. Hargrove

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330554 **Description / Location:** Off-White Wrap
Client No.: B-811-HA-20-58

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	None Detected

Lab No.: 4330554 **Description / Location:** Brown/White Non Fibrous **Layer No.:** 2
Client No.: B-811-HA-20-58

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330555 **Description / Location:** Off-White Wrap
Client No.: B-811-HA-20-59

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	None Detected

Lab No.: 4330555 **Description / Location:** Brown/White Non Fibrous **Layer No.:** 2
Client No.: B-811-HA-20-59

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330556	Description / Location: Off-White Wrap	
Client No.: B-811-HA-20-60		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	100
		<u>Type</u>
		Fibrous Glass
		<u>% Non-Fibrous Material</u>
		None Detected

Lab No.: 4330556	Description / Location: Black Non Fibrous	Layer No.: 2
Client No.: B-811-HA-20-60		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		100

Lab No.: 4330557	Description / Location: Off-White Fibrous	
Client No.: A-73-HA-205-03	Mag Block, SW Of Bldg. 73	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
None Detected	None Detected	99
		<u>Type</u>
		Fibrous Glass
		<u>% Non-Fibrous Material</u>
		1

Lab No.: 4330557	Description / Location: Brown/Grey Fibrous/Wrap	Layer No.: 2
Client No.: A-73-HA-205-03	Mag Block, SW Of Bldg. 73	
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>
55	Chrysotile	None Detected
		<u>Type</u>
		None Detected
		<u>% Non-Fibrous Material</u>
		45

Accreditations: NIST-NVLAP No. 101165-0	NY-DOH No. 11021	AIHA-LAP, LLC No. 100188
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Analytical Method EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330558	Description / Location: Off-White Fibrous		
Client No.: A-73-HA-205-02	Mag Block, SW Of Bldg. 73		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	99	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			1

Lab No.: 4330558	Description / Location: Brown/Grey Fibrous/Wrap		Layer No.: 2
Client No.: A-73-HA-205-02	Mag Block, SW Of Bldg. 73		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
55	Chrysotile	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			45

Lab No.: 4330559	Description / Location: Off-White Insulation		
Client No.: A-11-HA-205-01	24"SternLines, AboveGround, NearBldg.11		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
PC 3.0	Amosite	50	Mineral Wool
			<u>% Non-Fibrous Material</u>
			47

Lab No.: 4330560	Description / Location: Off-White Wrap, Expansion Joint		
Client No.: A-11-HA-204-01	24" Above Ground Stern Lines S		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
90	Chrysotile	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			10

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330561	Description / Location: Off-White Wrap; Expansion Joint			
Client No.: A-11-HA-204-02	24" Above Ground Stern Lines S			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
90	Chrysotile	None Detected	None Detected	10

Lab No.: 4330562	Description / Location: Brown/Tan/Off-White Fibrous			
Client No.: A-11-HA-204-03	Expansion Joint; 24" Above Ground Stern Lines S			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	25
		10	Synthetic	
		15	Fibrous Glass	

Lab No.: 4330562	Description / Location: Grey Wrap	Layer No.: 2		
Client No.: A-11-HA-204-03	Expansion Joint; 24" Above Ground Stern Lines S			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	30	Cellulose	70

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188
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Analytical Method EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330563	Description / Location: Grey Caulk			
Client No.: A-150-HA-204-04	ExpansionJoint;24"AboveGroundSternLinesS			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330563	Description / Location: White Fibrous			Layer No.: 2
Client No.: A-150-HA-204-04	ExpansionJoint;24"AboveGroundSternLinesS			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	50	Cellulose	50

Lab No.: 4330563	Description / Location: Brown Fibrous			Layer No.: 3
Client No.: A-150-HA-204-04	ExpansionJoint;24"AboveGroundSternLinesS			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	60	Synthetic	40

Lab No.: 4330563	Description / Location: Tan Non Fibrous			Layer No.: 4
Client No.: A-150-HA-204-04	ExpansionJoint;24"AboveGroundSternLinesS			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330564	Description / Location: Off-White Fibrous		
Client No.: A-11-HA-206-01	24" Pipe Near Bldg.11		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	99	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			1

Lab No.: 4330564	Description / Location: Brown/Grey Fibrous/Wrap		Layer No.: 2
Client No.: A-11-HA-206-01	24" Pipe Near Bldg.11		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
55	Chrysotile	None Detected	None Detected
			45

Lab No.: 4330565	Description / Location: Off-White Fibrous		
Client No.: A-11-HA-206-02	24" Pipe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	99	Fibrous Glass
			1

Lab No.: 4330565	Description / Location: Brown/Grey Fibrous/Wrap		Layer No.: 2
Client No.: A-11-HA-206-02	24" Pipe		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>% Non-Fibrous Material</u>
55	Chrysotile	Trace	Cellulose
			45

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**
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Analytical Method EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330566 **Description / Location:** Off-White Fibrous
Client No.: A-73-HA-206-03 Wool PAC 24"

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	99	Fibrous Glass	1

Lab No.: 4330566 **Description / Location:** Brown/Grey Fibrous/Wrap **Layer No.:** 2
Client No.: A-73-HA-206-03 Wool PAC 24"

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
55	Chrysotile	None Detected	None Detected	45

Lab No.: 4330567 **Description / Location:** Black Tar
Client No.: A-11-HA-208-01 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	90
		5	Fibrous Glass	

Lab No.: 4330568 **Description / Location:** Black Tar
Client No.: A-11-HA-208-02 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Cellulose	90
		5	Fibrous Glass	

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330571	Description / Location: Brown/Grey Wrap		
Client No.: A-11-HA-209-02	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
50	Chrysotile	5	Cellulose
			<u>% Non-Fibrous Material</u>
			45

Lab No.: 4330571	Description / Location: Yellow Insulation		Layer No.: 2
Client No.: A-11-HA-209-02	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	99	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			1

Lab No.: 4330572	Description / Location: Black Wrap		
Client No.: A-11-HA-209-03	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
40	Chrysotile	5	Cellulose
			<u>% Non-Fibrous Material</u>
			55

Lab No.: 4330572	Description / Location: Yellow Insulation		Layer No.: 2
Client No.: A-11-HA-209-03	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	99	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			1

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330573 **Description / Location:** Grey Caulk
Client No.: A-11-HA-210-01 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330574 **Description / Location:** Grey Caulk
Client No.: A-11-HA-210-02 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Lab No.: 4330574 **Description / Location:** Off-White Fibrous **Layer No.: 2**
Client No.: A-11-HA-210-02 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	80	Fibrous Glass	20

Lab No.: 4330575 **Description / Location:** White Caulk
Client No.: A-11-HA-210-03 Additional Sample Received

<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	None Detected	None Detected	100

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analytical Method

EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. Quantification at <0.25% by volume is possible with this method. (PC-Trace) represents this limit of quantitation. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed. Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, negative PLM results cannot be guaranteed. Electron Microscopy can be used as a confirming technique. Regulatory Limit is based upon the sample matrix.

Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330576	Description / Location: Grey Gasket			
Client No.: A-11-HA-211-01	Additional Sample Received			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Fibrous Glass	95

Lab No.: 4330576	Description / Location: White Fibrous	Layer No.: 2		
Client No.: A-11-HA-211-01	Additional Sample Received			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	None Detected

Lab No.: 4330577	Description / Location: Grey Gasket			
Client No.: A-11-HA-211-02	Additional Sample Received			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Fibrous Glass	95

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188

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Analytical Method

EPA 600/R-93/116

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Analysis Performed By: M. Crackel

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330578	Description / Location: Grey Gasket			
Client No.: A-11-HA-211-03	Additional Sample Received			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	5	Fibrous Glass	95

Lab No.: 4330578	Description / Location: White Fibrous	Layer No.: 2		
Client No.: A-11-HA-211-03	Additional Sample Received			
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>	<u>% Non-Fibrous Material</u>
None Detected	None Detected	100	Fibrous Glass	None Detected

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analysis Performed By: M. Crackerl

Date: 6/17/2011

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/17/2011
Report No.: 243193
Project: Naval Station Great Lakes
Project No.: 11602.029

BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 4330579	Description / Location: Off-White Wrap		
Client No.: A-11-HA-212-01	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	99	Fibrous Glass
			<u>% Non-Fibrous Material</u>
			1

Lab No.: 4330579	Description / Location: Black Tar		Layer No.: 2
Client No.: A-11-HA-212-01	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
PC 5.5	Chrysotile	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			PC 94.5

Lab No.: 4330579	Description / Location: White Caulk		Layer No.: 3
Client No.: A-11-HA-212-01	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
None Detected	None Detected	None Detected	None Detected
			<u>% Non-Fibrous Material</u>
			100

Lab No.: 4330580	Description / Location: Tan Insulation		
Client No.: A-11-HA-213-01	Additional Sample Received		
<u>% Asbestos</u>	<u>Type</u>	<u>% Non-Asbestos Fibrous Material</u>	<u>Type</u>
10	Chrysotile	10	Mineral Wool
			<u>% Non-Fibrous Material</u>
			80

Accreditations: **NIST-NVLAP No. 101165-0** **NY-DOH No. 11021** **AIHA-LAP, LLC No. 100188**

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Analysis Performed By: M. Crackel

Date: 6/17/2011



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Milwaukee, Wisconsin

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3. Sampled By (Signature)		4. # of Samples in Shipment		5. Date of Sample Shipment		6. Date Results Needed		Method Preserved		Matrix		TIME (Minutes)			# of Containers							
Item No.	Sample Number	Sample Location/Description		COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ O ₂	ICE		NONE	OTHER	Date	Time	VOLUME (L)		
1	B-11H-HA-1-02	Reef Field Center		X						X								6/9			1	4330459
2	B-11H-HA-1-03	Reef Field South																				4330460
3	B-1709-HA-1-01	Dyersell																				4330461
4	B-1709-HA-1-02	Dyersell																				4330462
5	B-1709-HA-1-03	Dyersell																				4330463
6	B-1709-HA-2-04	Reef Field																				4330464
7	B-1709-HA-2-05	Reef Field																				4330465
8	B-1709-HA-2-06	Reef Field																				4330466
9	B-11B-HA-1-01	Windsor Glazing NW																				4330467
10	B-11B-HA-1-02	Windsor Glazing SW																				4330468
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Company/Agency Affiliation:		Condition Noted:										
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<i>J. J. J. / 1602-029</i>		<i>Naval Station Great Lakes</i>																				
3. Sampled by (Signature)		5. Date of Sample Shipment				6. Date Results Needed																
<i>[Signature]</i>		<i>6/12/11</i>				<i>3-24-11</i>																
Item No.	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	Matrix				Method Preserved				Date	Sampling Time	VOLUME (L)	TIME (Minutes)	# of Containers	Laboratory Number	
								SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER							
1	B-115-HA-1-03	<i>Windows Greeng SW</i>	X					X													4330469	
2	B-115-HA-2-04	<i>Roofing material, black, asphalt</i>																				4330470
3	B-115-HA-2-05	<i>Roofing material, black, asphalt</i>																				4330471
4	B-115-HA-3-06	<i>Roofing material, black, asphalt</i>																				4330472
5	B-6509-HA-1-01	<i>Penetration Sealant, East, Gray</i>																				4330473
6	B-6509-HA-1-02	<i>Penetration Sealant, East, Gray</i>																				4330474
7	B-6509-HA-1-03	<i>Penetration Sealant, East, Gray</i>																				4330475
8	B-6509-HA-2-04	<i>Penetration Sealant, black, South</i>																				4330476
9	B-6509-HA-2-05	<i>Penetration Sealant, black, East</i>																				4330477
10	B-6509-HA-2-06	<i>Penetration Sealant, black, North</i>																				4330478
Time In:		Time Out:		Total Hours:		Signature:										Print Name:						
<i>[Signature]</i>		<i>[Signature]</i>																				
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)				Date/Time Released				Company/Agency Affiliation		Condition Noted						
<i>[Signature]</i>		<i>6/15 0600</i>																				
Comments:																						



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Item No.	Sample Number	Sample Location/Description	2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested		Laboratory Number									
			COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE		OTHER	Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers			
1	B-116-HA-4-11	Penetrating Seal	X																		1	X	4330489	
2	B-116-HA-4-12	Penetrating Seal																						4330490
3	A-116-HA-214-01	Pipe inspection next to bldg. 11E																						4330491
4	A-116-HA-214-02	Pipe inspection next to bldg. 11B																						4330492
5	A-116-HA-214-03	Pipe inspection South of HA-214-01																						4330493
6	P-83-HA-215-01	18" Steam																						4330494
7	P-83-HA-216-01	18" Steam																						4330495
8	P-88-HA-216-02	18" Steam																						4330496
9	B-811-HA-1-01	Drywell																						4330497
10	B-811-HA-1-02	Drywell																						4330498

3. Sender's Name/Project No. *V. J. Janssen / 1602-029*

4. # of Samples in Shipment *139*

5. Date of Sample Shipment *6/13/11*

6. Date Results Needed *3-Day SAT*

7. Sampling Site Address/Contact Telephone No. *Naval Station Great Lakes*

8. Method Preserved: COMP, GRAB, WATER, SOIL, AIR, SLUDGE, OTHER, HCl, HNO₃, H₂SO₄, ICE, NONE, OTHER

9. Date: *6/9*

10. Time: *6/9*

11. VOLUME (L): *1*

12. TIME (Minutes): *1*

13. # of Containers: *1*

14. Indicate Analysis Requested: *PLM*

15. Laboratory Number: *4330489, 4330490, 4330491, 4330492, 4330493, 4330494, 4330495, 4330496, 4330497, 4330498*

Signature: _____ Print Name: _____

Total Hours: _____

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Item No.	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃			H ₂ SO ₄		ICE	NONE	OTHER	Date
1	B-811-HA-1-03	Drywall	X						X							6/9		1	4330499
2	B-811-HA-2-04	Joint Compound																	4330500
3	B-811-HA-2-05	Joint Compound																	4330501
4	B-811-HA-2-06	Joint Compound																	4330502
5	B-811-HA-3-07																		7120
6	B-811-HA-4-10	Floor tile + Mastic (White/Green)																	4330503
7	B-811-HA-4-11	Floor tile + Mastic																	4330504
8	B-811-HA-4-12	Floor tile + Mastic																	4330505
9	B-811-HA-5-13	Base Board																	4330506
10	B-811-HA-5-14	Base Board																	4330507
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Company/Agency Affiliation:		Condition Noted:							
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted							
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Johnson / 1602-029		Mural Station (out Lake)																																			
3. Sampled by (Signature)		4. # of Samples in Shipment		5. Date of Sample Shipment										6. Date Results Needed		# of Containers	TIME (Minutes)	VOLUME (L)	Date	Time	OTHER	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	Date	Time	Matrix	Method Preserved	Sampling	Date	Time	Signature	Print Name:	Company/Agency Affiliation	Condition Noted
[Signature]		139		6/13/11										3- Day SW																							
Item No.	Sample Number	Sample Location/Description		COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	Matrix	Method Preserved	Sampling	Date	Time	Signature	Print Name:	Company/Agency Affiliation	Condition Noted												
1	B-811-HA-5-15	Dock board		X						X					X					6/9		[Signature]	PLN	4330511													
2	B-811-HA-6-16	Ceiling tile (suspended)																				[Signature]		4330512													
3	B-811-HA-6-17																					[Signature]		4330513													
4	B-811-HA-6-18																					[Signature]		4330514													
5	B-811-HA-7-19	15" fitting insulation																				[Signature]		4330515													
6	B-811-HA-7-20																					[Signature]		4330516													
7	B-811-HA-7-21																					[Signature]		4330517													
8	B-811-HA-8-22	Brown floor tile + Moistie																				[Signature]		4330518													
9	B-811-HA-8-23																					[Signature]		4330519													
10	B-811-HA-8-24																					[Signature]		4330520													
	B-811-HA-9-25																					[Signature]		4330521													
	B-811-HA-9-26																					[Signature]		4330522													
	B-811-HA-9-27																					[Signature]		4330523													
Time In:		Time Out:		Total Hours:										Signature:		Print Name:		Company/Agency Affiliation		Condition Noted																	
[Signature]		6/13 0600												[Signature]		PLN		[Signature]		6-17-11																	
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3. Sampled by (Signature)		5. Date of Sample Shipment		TIME (Minutes)	# of Containers														
Item No	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	Date	Time	VOLUME (L)	
1	B-811-HA-14-41	Black Cooking, Roof vents	X						X							6/9		1	4330537
2	D-811-HA-14-42																		4330538
3	B-811-HA-15-43	Caulk, Grey, Roof																	4330539
4	B-811-HA-15-44																		4330540
5	B-811-HA-15-45																		4330541
6	B-811-HA-16-46	Penetration Sealant																	4330542
7	B-811-HA-16-47																		4330543
8	B-811-HA-16-48																		4330544
9	B-811-HA-17-49	Roof Flashing																	4330545
10	B-811-HA-17-50																		4330546
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Company/Agency Affiliation:		Condition Noted:							
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted							
6/13 0600		6/13 0600																	
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3. Sampled by (Signature)		5. Date of Sample Shipment				6. Date Results Needed						TIME (Minutes)	# of Containers						
Item No	Sample Number	Sample Location/Description	Matrix										VOLUME (L)						
			COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER	Date	Sampling Time		
1	B-811-HA-17-51	Reef Fishing	X						X					X		6/9		1	4330547
2	B-811-HA-18-52	Reef Field																	4330548
3	B-811-HA-18-53																		4330549
4	B-811-HA-18-54																		4330550
5	B-811-HA-19-55	TSI																	4330551
6	B-811-HA-19-56																		4330552
7	B-811-HA-19-57																		4330553
8	B-811-HA-20-58	TSI Wrap																	4330554
9	B-811-HA-20-59																		4330555
10	B-811-HA-20-60																		4330556
Time In:		Time Out:		Total Hours:										Signature:		Print Name:			
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		Company/Agency Affiliation		Condition Noted							
6/13 0600		6/13 0600																	



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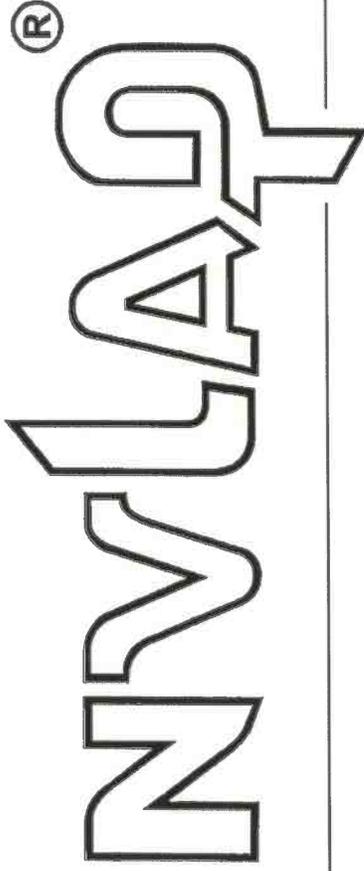
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3. Sampled by (Signature)		5. Date of Sample Shipment										6. Date Results Needed			Laboratory Number						
Item No.	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	MATRIX	OTHER	HCl	HNO ₃	H ₂ O ₂	ICE	NONE		OTHER	Date	Sampling Time	VOLUME (L)	TIME (Minutes)	# of Containers
1	A-73-HA-205-03	Mug black, SW of bldg. 73	X					X					X			6/8				1	4330557
2	A-73-HA-205-02																				4330558
3	A-73-HA-205-01	24" Stem lines, Above ground, Near bldg-11																			4330559
4	A-11-HA-204-01	Expansion joint, 24" Above ground, Stem line 5																			4330560
5	A-11-HA-204-02																				4330561
6	A-11-HA-204-03																				4330562
7	A-150-HA-204-04																				4330563
8	A-11-HA-206-01	24" pipe insulation near bldg-11																			4330564
9	A-11-HA-206-02	27" pipe General Wool insulation																			4330565
10	A-73-HA-206-03	Wool PAC insulation 24"																			4330566
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Company/Agency Affiliation:		Condition Noted:									
Released by (Signature)		Date/Time Released		Delivery Method		Released by (Signature)		Date/Time Released		To Archive/Disposal		Condition Noted									

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101165-0

International Asbestos Testing Laboratories

Mt. Laurel, NJ

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

AIRBORNE ASBESTOS FIBER ANALYSIS

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

2010-07-01 through 2011-06-30

Effective dates



Sally S. Bruce

For the National Institute of Standards and Technology



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

International Asbestos Testing Laboratories

9000 Commerce Parkway

Suite B

Mt. Laurel, NJ 08054

Mr. Frank E. Ehrenfeld, III

Phone: 856-231-9449 Fax: 856-231-9818

E-Mail: frankehrenfeld@iatl.com

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

AIRBORNE ASBESTOS FIBER ANALYSIS (TEM)

NVLAP LAB CODE 101165-0

NVLAP Code Designation / Description

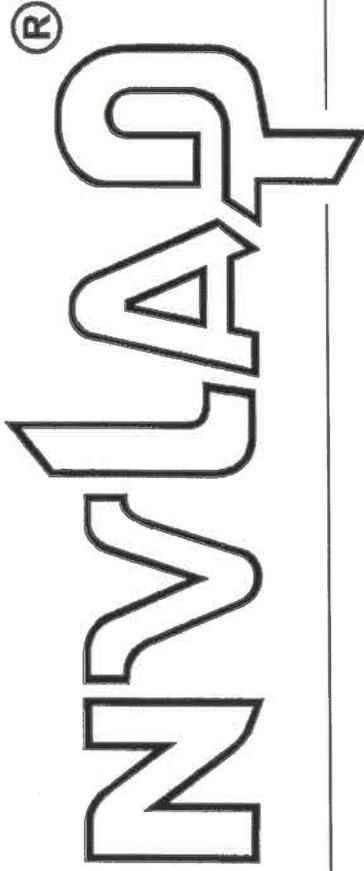
18/A02 U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

2010-07-01 through 2011-06-30

Effective dates

For the National Institute of Standards and Technology

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101165-0

International Asbestos Testing Laboratories

Mt. Laurel, NJ

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

BULK ASBESTOS FIBER ANALYSIS

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

2010-07-01 through 2011-06-30

Effective dates



Sally S. Bruce

For the National Institute of Standards and Technology



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

International Asbestos Testing Laboratories

9000 Commerce Parkway

Suite B

Mt. Laurel, NJ 08054

Mr. Frank E. Ehrenfeld, III

Phone: 856-231-9449 Fax: 856-231-9818

E-Mail: frankehrenfeld@iatl.com

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

BULK ASBESTOS FIBER ANALYSIS (PLM)

NVLAP LAB CODE 101165-0

NVLAP Code Designation / Description

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

2010-07-01 through 2011-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

June 14, 2010

Mr. Frank E. Ehrenfeld, III
International Asbestos Testing Labs
9000 Commerce Parkway
Suite B
Mt. Laurel, NJ 08054

NVLAP Lab Code: 101165-0

Dear Mr. Ehrenfeld:

I am pleased to inform you that continuing accreditation for specific test methods in Airborne Asbestos Fiber Analysis (TEM) is granted to your organization under the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is effective until June 30, 2011, provided that your organization continues to comply with accreditation requirements contained in the NVLAP Procedures.

Your Certificate of Accreditation is enclosed along with a statement of your Scope of Accreditation. You may reproduce these documents in their entirety and announce your organization's accreditation status using the NVLAP symbol and/or term in business publications, the trade press, and other business-oriented literature. Accreditation does not relieve your organization from observing and complying with any applicable existing laws and/or regulations.

We are pleased to have you participate in NVLAP and look forward to your continued association with this program. If you have any questions concerning your NVLAP accreditation, please direct them to Hazel M. Richmond, Program Manager, Laboratory Accreditation Program, National Institute of Standards and Technology, 100 Bureau Dr. Stop 2140, Gaithersburg, MD 20899-2140; (301) 975-4016.

Sincerely,

Sally S. Bruce, Chief
Laboratory Accreditation Program

Enclosure(s)





UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

June 14, 2010

Mr. Frank E. Ehrenfeld, III
International Asbestos Testing Labs
9000 Commerce Parkway
Suite B
Mt. Laurel, NJ 08054

NVLAP Lab Code: 101165-0

Dear Mr. Ehrenfeld:

I am pleased to inform you that continuing accreditation for specific test methods in Bulk Asbestos Fiber Analysis (PLM) is granted to your organization under the National Voluntary Laboratory Accreditation Program (NVLAP). This accreditation is effective until June 30, 2011, provided that your organization continues to comply with accreditation requirements contained in the NVLAP Procedures.

Your Certificate of Accreditation is enclosed along with a statement of your Scope of Accreditation. You may reproduce these documents in their entirety and announce your organization's accreditation status using the NVLAP symbol and/or term in business publications, the trade press, and other business-oriented literature. Accreditation does not relieve your organization from observing and complying with any applicable existing laws and/or regulations.

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Sincerely,

Sally S. Bruce, Chief
Laboratory Accreditation Program

Enclosure(s)



February 2, 2012

ENVIRONMENTAL DESIGN INTERNATIONAL INC.
33 West Monroe Street
Suite 1825
Chicago, IL 60603-5326

Reference: Environmental Design International Inc., Naval Station Great Lakes Reports, 1602.029

The employment of the USEPA 600 R93-116 analytical method is equivalent to the 40CFR763 required 1982 Interim Method listed on our accreditation.

Furthermore, all of the analytical work performed by iATL for this project in 2011 that listed this analytical method -was performed by the analytical technique of Polarized Light Microscopy (PLM).

If you have further questions or need to contact us please either call at (856) 231-9449 or email me directly at frankehrenfeld@iatl.com.

Regards,



Frank E. Ehrenfeld III
Laboratory Director – Vice President

Cc: Patricia Feeley - EDI
Gary Flentge – EDI
Harvey Pokorny – NAVFAC - MW

Appendix D: Paint Sample Tables and Photographs of Samples

Paint Sample Summary Table
Buildings
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sample Material Description	Sample ID	Results (% by weight lead)	Test Method	Approx. Quantity Square feet (s.f.) Linear feet (l.f.)	Condition
Building 11B	Door	Orange paint-door	PC-B11B-HA-1-1	0.68	AAS	64 s.f.	Poor
Building 11B	Door	Grey paint-door	PC-B11B-HA-2-2	0.0082	AAS	64 s.f.	Good
Building 11G	Sprinkler pump	Red paint - sprinkler pump	PC-B11G-HA-1-1	<0.011	AAS	200 s.f.	Good
Building 11G	Pump room	White paint-interior of pump room	PC-B11G-HA-2-2	<0.0076	AAS	600 s.f.	Good
Building 11G	Gutters	Brown paint - gutters	PC-B11G-HA-3-3	<0.0076	AAS	50 l.f.	Poor
Building 11H	Wall	White paint - wall	PC- B11H-HA -1-1	0.025	AAS	600 s.f.	Good
Building 135	Walls	White paint-walls	PC-B135-HA-1-1	<0.0073	AAS	600 s.f.	Good
Building 811A	I-beam	Brown paint- I-beam	PC- B811A-HA-1-1	**	AAS	900 s.f.	Fair
Building 811	I-beam	Grey paint- I-beam	PC-B811-HA-1-1	<0.0077	AAS	2,400 s.f.	Good
Building 811	Throughout	Beige paint	PC- B811-HA-2-2	<0.0094	AAS	2,000 s.f.	Good
Building 811	Door	Orange paint	PC-B811-HA-3-3	**	AAS	64 s.f.	Good
Building 811	Walls	Lt. Blue paint-walls	PC-B811-HA-4-4	<0.0068	AAS	800 s.f.	Good
Building 811	Bathroom walls	Sky blue paint-bathroom walls	PC-B811-HA-5-5	0.0095	AAS	300 s.f.	Good

Paint Sample Summary Table
Buildings
Naval Station Great Lakes
Great Lakes, Illinois

Location	Homogenous Area Description	Sample Material Description	Sample ID	Results (% by weight lead)	Test Method	Approx. Quantity Square feet (s.f.) Linear feet (l.f.)	Condition
Building 811	Roof vents	Black paint-roof vents	PC-B811-HA-6-6	<0.0082	AAS	120 s.f.	Good
Building 811	Exterior	Beige paint-exterior	PC-B811-HA-7-7	0.011	AAS	7,000 s.f.	Good
Building 6501	Tank walls	White paint	PC-B6501-HA-1-1	<0.0054	AAS	375 s.f.	Good
Building 6501	Guard rail	Yellow paint - guard rail	PC-B6501-HA-2-2	<0.010	AAS	50 l.f.	Good
Building 6509	Entry hole	Grey paint-entry holes	PC-B6509-HA-1-1	<0.0083	AAS	15 s.f.	Poor
S3	Structural beams	Green paint	PC-BS3-HA-2-2	0.0097	AAS	3,000 s.f.	Good
S3	Guard rail	Yellow paint	PC-BS3-HA-1-1	<0.0072	AAS	300 s.f.	Good
Steam pipe supports near building 11	Steam pipe supports near building 11	Green over orange paint	A-PC -11-HA-201-01	15	AAS		Good
Steam pipe supports near building 11	Steam pipe supports near building 11	Green paint	A-PC-11-HA-201-2	11	AAS		Good
Steam pipe supports near building 11	Steam pipe supports near building 11	Green over orange paint	A-PC-11-HA-201-3	21	AAS		Good

Test Method – AAS – Atomic Absorption Spectrophotometry

Steam pipe support quantity estimated in the Aboveground Steam Lines Report under separate cover.

Naval Station Great Lakes
Photo Log of Buildings
August 6, 2011
Photographed by Jose Aguilera
Buildings 11B, 11G, and 11H



Building 11G HA 1-1:
Red paint sprinkler
pump



Building 11G HA3-3:
Brown paint on gutters



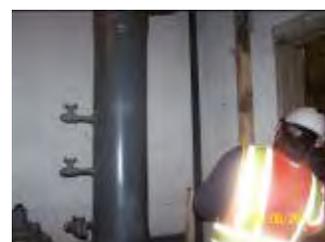
Building 11G HA2-2:
white paint, interior of
pump room



Building 11B HA2-2:
Grey paint front door



Building 11B HA 1-1:
Orange paint front door



Building 11H HA1-1:
White paint from walls

Naval Station Great Lakes
Photo Log of Buildings
August 6, 2011
Photographed by Jose Aguilera

Buildings 135, 6501, and 6509



Building 135 HA 1-1:
White paint walls



Building 6509 HA1-1:
Grey paint, entry hole



Building 6501 HA1-1:
White paint



Building 6501 HA2-2
Yellow paint guard rail

Naval Station Great Lakes
Photo Log of Buildings
August 6, 2011
Photographed by Jose Aguilera

Building 811A & 811



Building 811A- HA1-1:
Brown paint on I beam

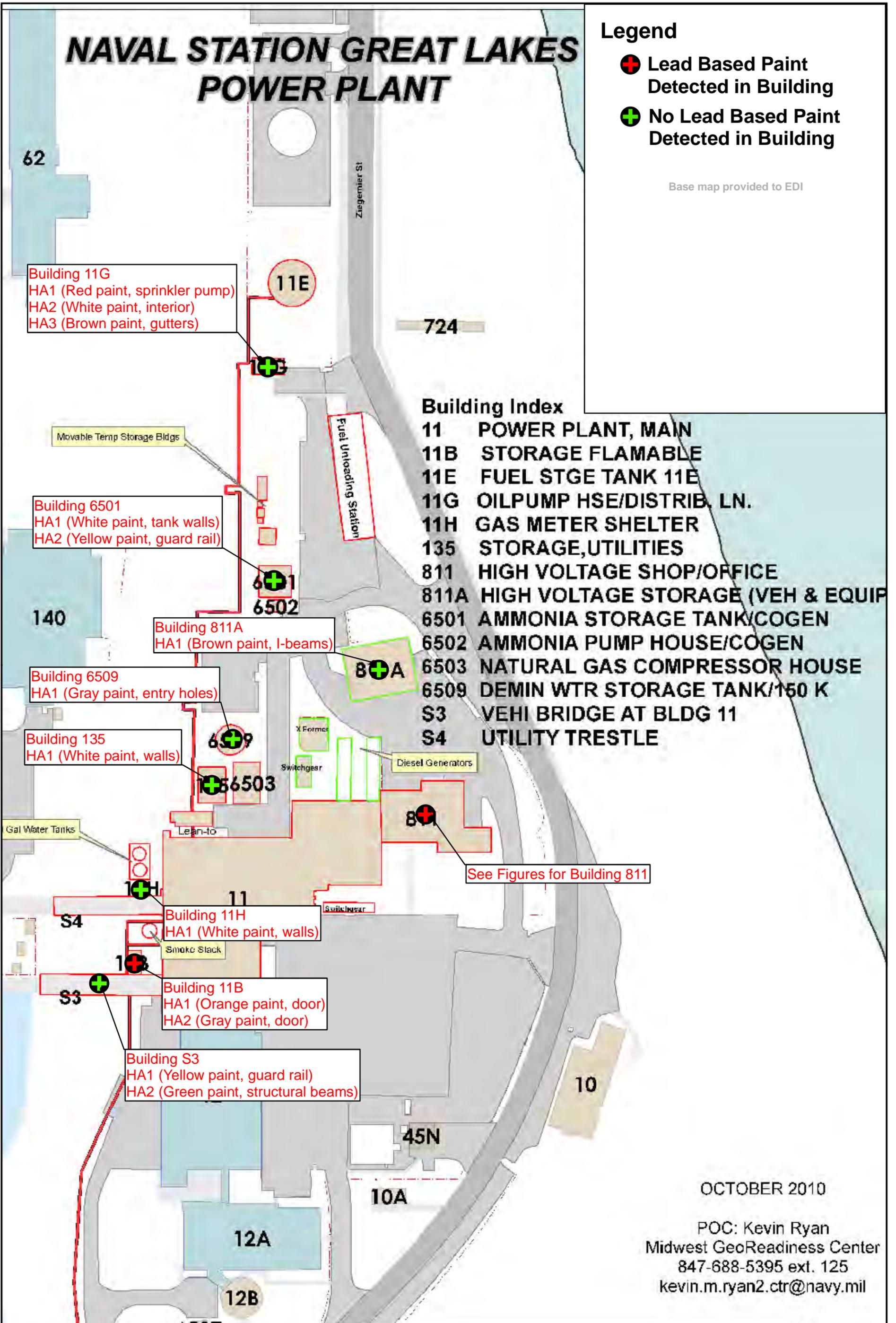
Appendix E: Building Sample Location Drawings for Paint Chips

NAVAL STATION GREAT LAKES POWER PLANT

Legend

- + Lead Based Paint Detected in Building
- + No Lead Based Paint Detected in Building

Base map provided to EDI



OCTOBER 2010

POC: Kevin Ryan
Midwest GeoReadiness Center
847-688-5395 ext. 125
kevin.m.ryan2.ctr@navy.mil



Environmental Design International inc.
Civil, Survey, Environmental and Construction Inspection Services
33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603
Ph. (312) 345-1400 Fax (312) 345-0529
www.envdesigni.com

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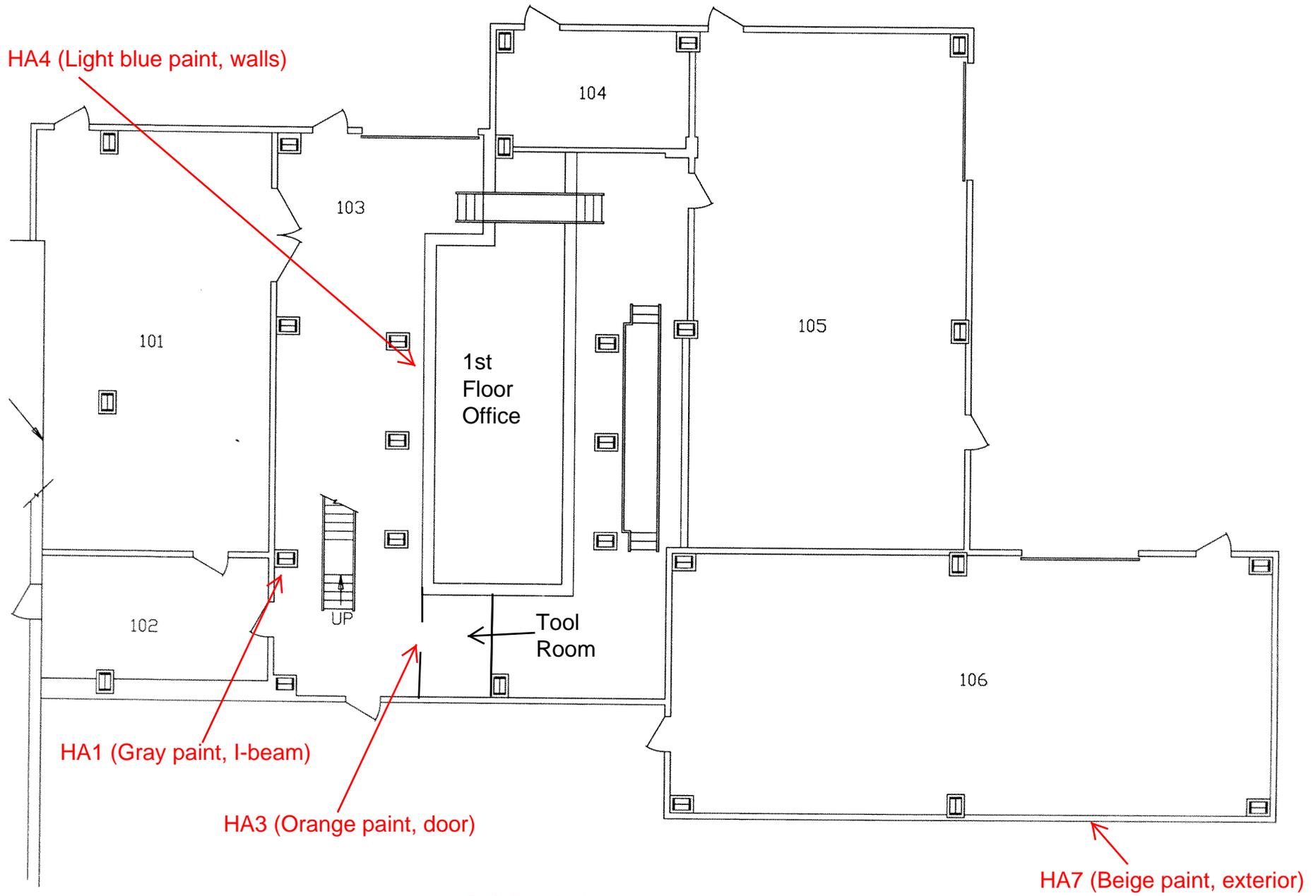
Building Lead Paint Sampling
Figure 2

PROJ. No: 1602.029

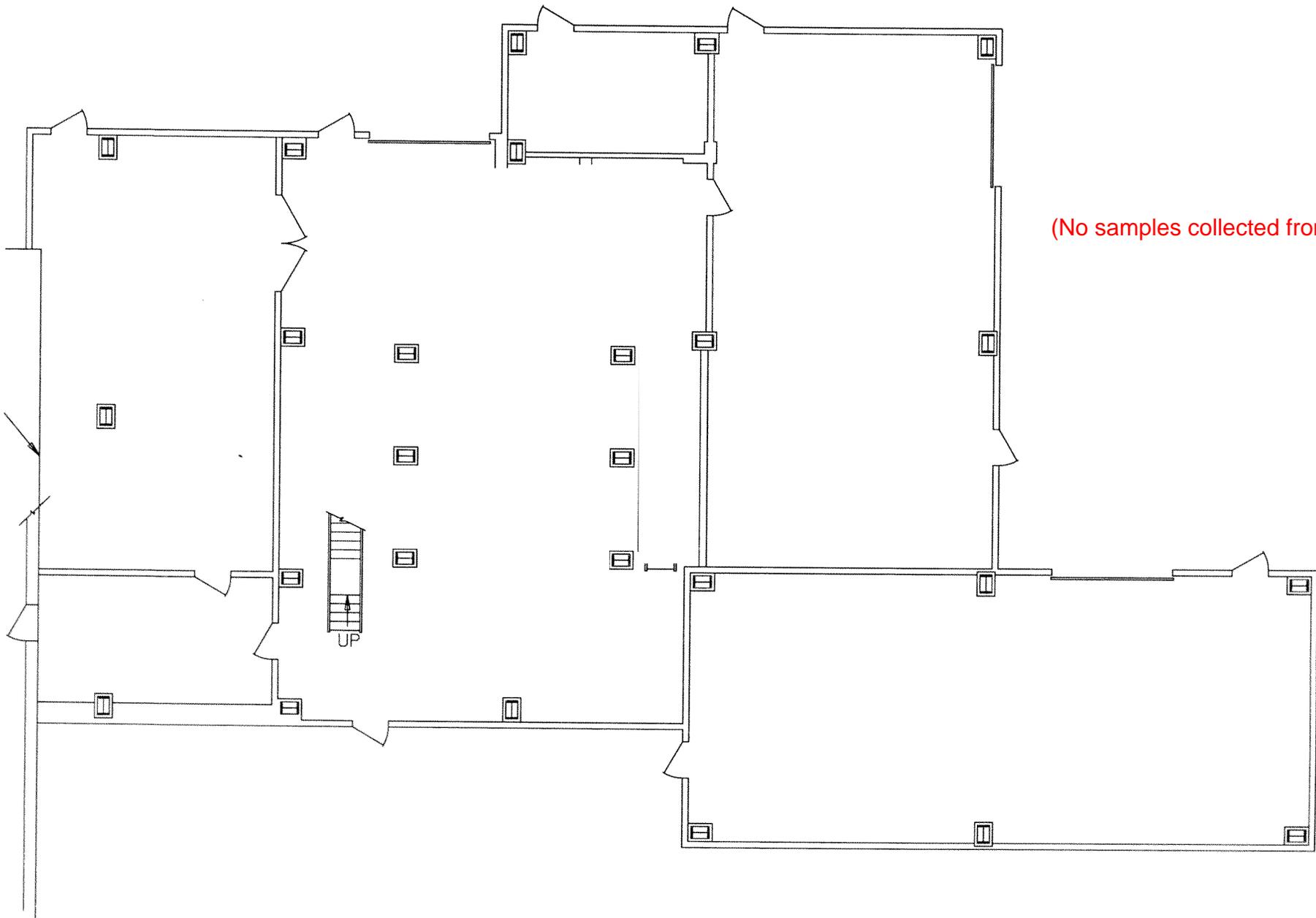
DATE: 9/28/2011

DRAWN BY: JRJ

APPROVED BY: PF



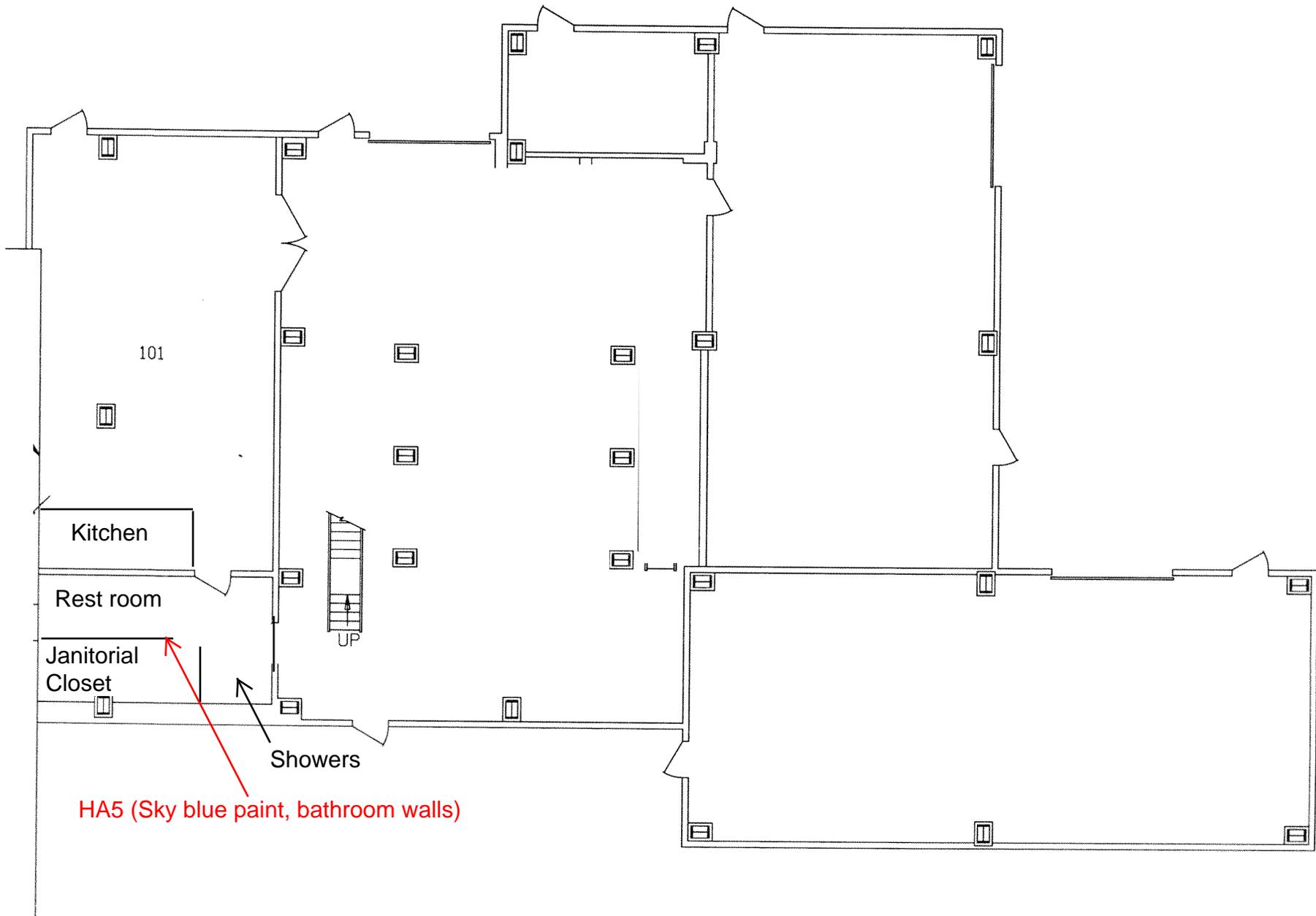
Building 811
 1st Level
 Paint Sampling Locations



(No samples collected from 2nd level)

Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012

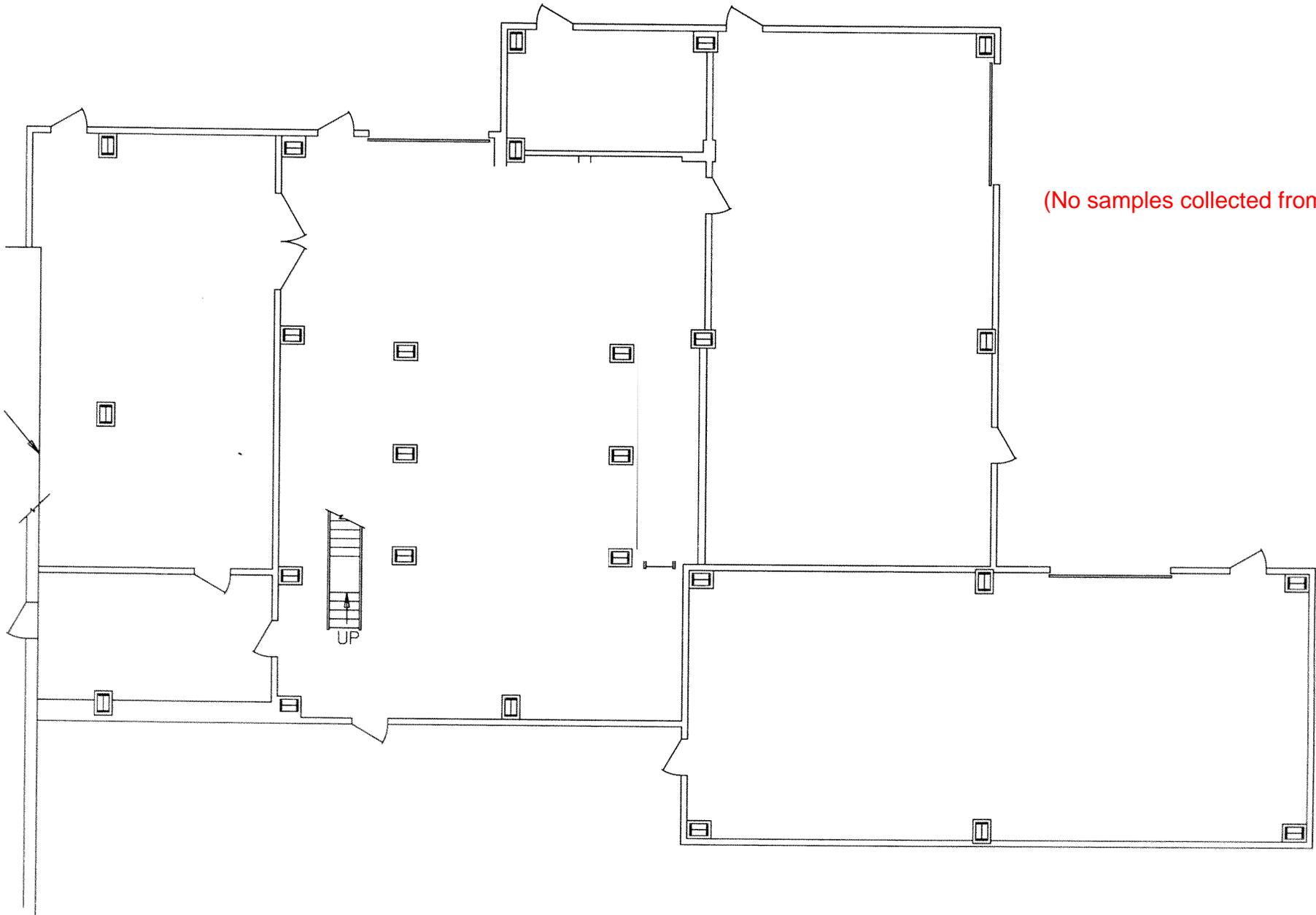
Building 811
2nd Level
Paint Sampling Locations



HA5 (Sky blue paint, bathroom walls)

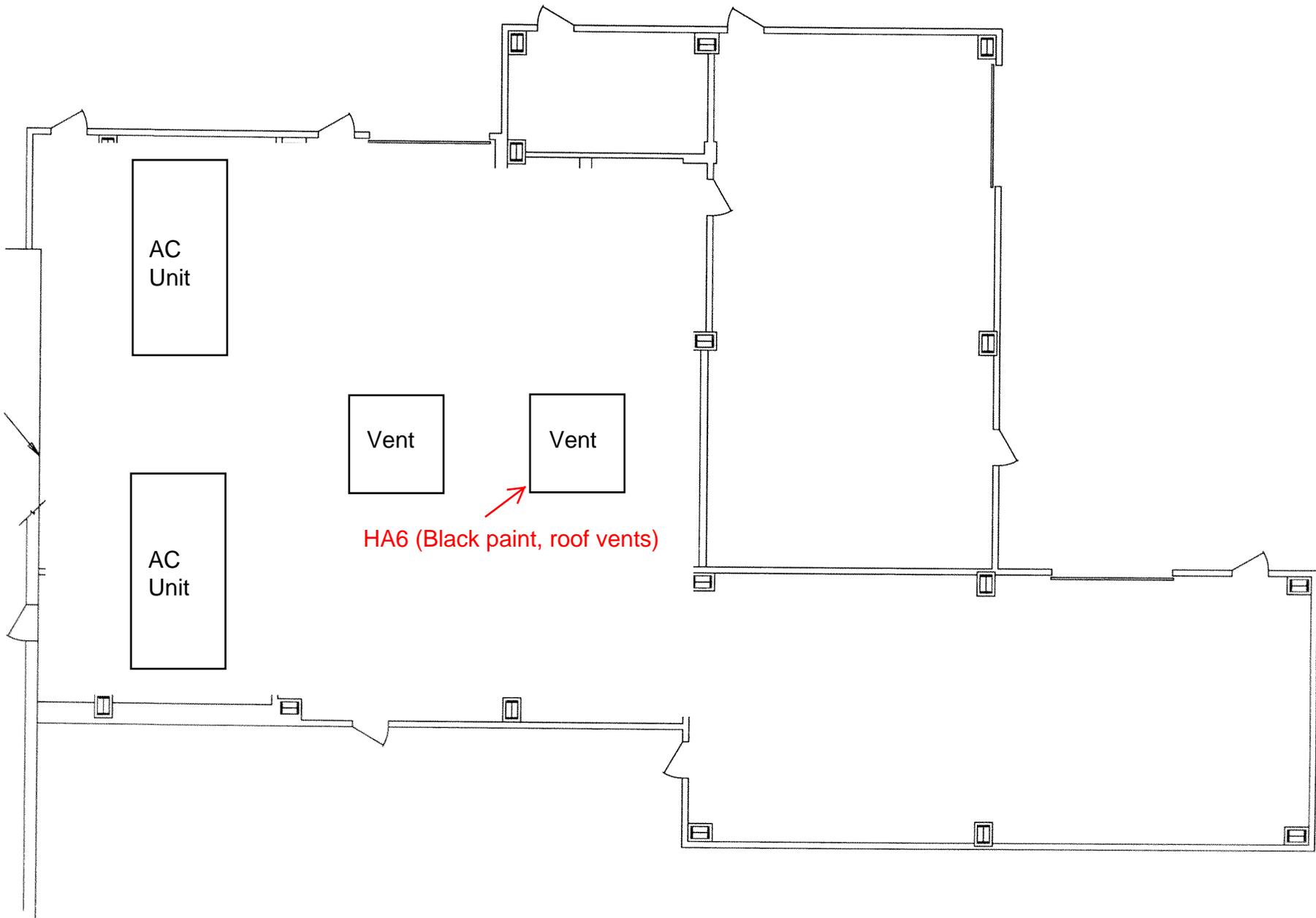
Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012

Building 811
3rd Level
Paint Sampling Locations



(No samples collected from 4th level)

Building 811
4th Level
Sampling Locations



Report: Limited Environmental Survey
Buildings Associated with Steam Lines,
Feb 2012

Building 811
Roof
Paint Sampling Locations

Appendix F: Paint Chip Laboratory Results and Certifications



9000 Commerce Parkway, Ste B
Mount Laurel, NJ 08054
Toll free: 877 428-4285
Local: 856-231-9449
Fax: 856-231-9818
info@iatl.com

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Message: LEAD RESULTS

iATL provides our clients with several means of receiving their analytical results (preliminary results FAXed and/or emailed). We also recommend that you apply for a Client Portal account so that you can track your samples and access your secure data. Details can be attained at www.iatl.com.

For bulk asbestos analysis, if you require that certain samples move forward to gravimetric reduction TEM analysis (ex. TEM-NOB by ELAP 198.4 or equivalent), please look over your PLM bulk asbestos results, circle or highlight any samples/layers that require additional analysis, and submit to us as soon-as possible. FAX 856-231-9818, info@iatl.com.

For airborne fiber counts by PCM 7400, if you require that certain samples move forward to airborne TEM analysis (ex. TEM-NIOSH 7402 or equivalent), please look over your PCM results, circle or highlight any samples that require additional analysis, and submit to us as soon as possible. FAX 856-231-9818, info@iatl.com.

Preliminary results are issued by IATL to expedite client decision making. There are several factors that limit these results: sampling methods, sampling data, packaging and handling.

These results may not have been reviewed by the Laboratory Director. Final Certificates of Analysis will follow these preliminary results. The signed COA is considered the official results.

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/13/2011
Report Number: 242499
Project: NavalStationGreatLakes;6/6/11
Project No.: 1602.029.01

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4326141	PC-423-HA-3-7	Grey Paint On 12" & 18" Pipes Pit #423	0.017
4326142	PC-419-HA-01-01	Grey Paint On Valve Pit #419	0.043
4326143	PC-419-HA-2-04	Green Paint ON Valve Fitting Pit #419	<0.0075
4326144	PC-422-HA-4-10	Pastel Green Paint Pit #422	<0.0076

Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B;7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the Laboratory.

Date Received: 6/9/2011
Date Analyzed: 6/13/2011
Analyst: C. Shaffer

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director



33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1450
Fax: 312-345-0529

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.		Indicate Analysis Requested		Laboratory Number											
Janssen / 1602-029-01		Muel Station Great Lakes															
3. Sampled by (Signature)		4. # of Samples in Shipment		5. Date of Sample Shipment		6. Date Results Needed											
[Signature]		21		3-22-11		3-22-11											
Item No.	Sample Number	Sample Location/Description	COMP	Method Preserved						VOLUME (L)	TIME (Minutes)	# of Containers					
				WATER	SOIL	AIR	SLUDGE	OTHER	HCl				HNO3	H2SO4	ICE	NONE	OTHER
1	PC-423- HA-3-7	Gray paint on 12" #18" pipe	X														
2	PC-419- HA-01-01	Gray paint on valve															
3	PC-419- HA-2-04	Green paint on valve fittings															
4	PC-422- HA-4-10	Pastel Green paint	X														
5	P-422- HA-10-28	TSI 12" pipe															
6	P-422- HA-10-29	TSI 12" pipe															
7	P-422- HA-10-30	TSI 12" pipe															
8	P-422- HA-11-21	TSI 12" elbow															
9	HA-11-32	TSI 12" elbow															
10	P-422- HA-11-23	TSI 12" elbow															
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Date/Time Released		Company/Agency Affiliation		Condition Noted			
[Signature]		6/7/2011 1600				[Signature]		[Signature]		5/2/11		RECEIVED		11/2/11			
To Archive/Disposal														JUN - 9 2011			



9000 Commerce Parkway, Ste B
Mount Laurel, NJ 08054
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Fax: 856-231-9818
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For bulk asbestos analysis, if you require that certain samples move forward to gravimetric reduction TEM analysis (ex. TEM-NOB by ELAP 198.4 or equivalent), please look over your PLM bulk asbestos results, circle or highlight any samples/layers that require additional analysis, and submit to us as soon-as possible. FAX 856-231-9818, info@iatl.com.

For airborne fiber counts by PCM 7400, if you require that certain samples move forward to airborne TEM analysis (ex. TEM-NIOSH 7402 or equivalent), please look over your PCM results, circle or highlight any samples that require additional analysis, and submit to us as soon as possible. FAX 856-231-9818, info@iatl.com.

Preliminary results are issued by IATL to expedite client decision making.

There are several factors that limit these results: sampling methods, sampling data, packaging and handling.

These results may not have been reviewed by the Laboratory Director. Final Certificates of Analysis will follow these preliminary results. The signed COA is considered the official results.

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	Report Date: 6/15/2011 Report Number: 243028 Project: NavalStationGreatLakes;6/7/11 Project No.: 1602.029
---	--

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4328463	PC-P239E-HA-4-11	Pastel Green Paint	0.019

Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
 AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
 EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/13/2011
Date Analyzed: 6/15/2011
Analyst: C. Shaffer

Approved By: _____
 Frank E. Ehrenfeld, III
 Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/21/2011
Report Number: 243159
Project: Naval Station Great Lakes
Project No.: 1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335238	PC-B11H-HA-1-1	White Paint/Wall	0.025
4335239	PC-B11G-HA-1-1	Red Paint/Sprinkler Pump	<0.011*
4335240	PC-B11B-HA-2-2	Grey Paint/Front Door	0.0082
4335241	PC-B11B-HA-1-1	Orange Paint/Front Door	0.68***
4335242	PC-B135-HA-1-1	White Paint/Walls	<0.0073
4335243	PC-B6509-HA-1-1	Grey Paint/Entry Holes	<0.0083
4335244	PC-B6501-HA-1-1	White Paint	<0.0054
4335245	PC-B6501-HA-2-2	Yellow Paint/Guard Rail	<0.010
4335246	PC-B11A-HA-f01	Brown Paint/I-Beam	Void**
4335247	PC-B116-HA-3-3	Brown Paint/Gutters	<0.0076

Accreditations:

NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/14/2011
Date Analyzed: 6/21/2011
Analyst: C. Shaffer

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/21/2011
Report Number: 243159
Project: Naval Station Great Lakes
Project No.: 1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335248	PC-B11G-HA-2-2	White Paint/Interior Of Pump Room	<0.0070
4335249	PC-B811-HA-1-1	Grey Paint/I-Beams	<0.0077
4335250	PC-B811-HA-2-2	Beige Paint	<0.0094
4335251	PC-B811-HA-3-3	Orange Paint	Void**
4335252	PC-B811-HA-4-4	Lt. Blue Paint/Walls	<0.0068
4335253	PC-B811-HA-5-5	Sky Blue Paint/Bathroom	0.0095
4335254	PC-B811-HA-6-6	Black Paint/Roof Vents	<0.0082
4335255	PC-B811-HA-7-7	Beige Paint/Exterior	0.011***
4335256	PC-BS3-HA-2-2	Green Paint	0.0097***
4335257	PC-BS3-HA-1-1	Yellow Paint	<0.0072

Accreditations:

NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/14/2011

Date Analyzed: 6/21/2011

Analyst: C. Shaffer

CERTIFICATE OF ANALYSIS

Client:	Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	Report Date:	6/21/2011
		Report Number:	243159
		Project:	Naval Station Great Lakes
		Project No.:	1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.	Client No.	Location / Description	Concentration Lead By Weight (%)
4335258	A-PC-11-HA-201-01	Green Over Orange Paint Steam Pipe Supports Near Bldg. 11	15
4335259	A-PC-11-HA-201-02	Green Paint/Steam Pipe Supports	11
4335260	A-PC-11-HA-201-03	Green Over Orange Paint Steam Pipe Supports	21***
4335261	A-PC-11-HA-202-01	Yellow Paint/Concrete Supports For Steam Lines Near Bldg. 11	19
4335262	A-PC-11-HA-202-02	Yellow Paint/Concrete Supports For Steam Lines Near Bldg. 11	5.1***
4335263	A-PC-11-HA-202-03	Yellow Paint/Concrete Supports For Steam Lines Near Bldg. 11	7.1***
4335264	A-PC-11-HA-203-01	Black Paint/Concrete Support For Steam Line Near Bldg. 11	15
4335265	A-PC-11-HA-203-02	Black Paint/Concrete Support For Steam Line Near Bldg. 11	12
4335266	A-PC-11-HA-203-03	Black Paint/Concrete Support For Steam Line Near Bldg. 11	15
4335267	A-PC-103-HA-203-04	Black Paint/Metal Stairs	0.035

Accreditations:

NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
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Client:	Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	Report Date:	6/21/2011
		Report Number:	243159
		Project:	Naval Station Great Lakes
		Project No.:	1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335268	A-PC-HA-207-01	Additional Sample Received	<0.0061
4335269	A-PC-HA-207-02	Additional Sample Received	<0.0077
4335270	A-PC-HA-207-03	Additional Sample Received	0.065

Accreditations:

NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3355-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/14/2011

Date Analyzed: 6/21/2011

Analyst: C. Shaffer

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin



Environmental Design
International inc.

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested		Laboratory Number								
3. Sampled by (Signature)		5. Date of Sample Shipment										6. Date Results Needed										
Item No	Sample Number	Sample Location/Description	COMP	GRAB	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	H2SO4	ICE	NONE	OTHER	Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers		
1	PC-B111- HA-1-1	White Paint on Wall	X						X					X		6/17/11	6A			1	4335238	
2	PC-B112- HA-1-1	Red Paint Sprinkler Peeper																			1	4335239
3	PC-B113- HA-2-2	Grey Paint Front Door																			1	4335240
4	PC-B114- HA-1-1	Orange Front Door																			1	4335241
5	PC-B115- HA-1-1	White Paint, Nails																			1	4335242
6	PC-B6509- HA-1-1	Grey Paint, Entry Holes																			1	4335243
7	PC-B6501- HA-1-1	White Paint																			1	4335244
8	PC-B6501- HA-2-2	Yellow Paint, Garage Ceiling Panel																			1	4335245
9	PC-B116- HA-1-1	T-Bear, Brown Paint,																			1	4335246
10	PC-B116- HA-3-3	beaters																			1	4335247

Print Name: **FOE IVE**
 Company/Agency: **FOE IVE**
 Title: **Condition Specialist**
 Date/Time Released: **JUN 4 2011**
 Signature: *[Signature]*
 Released by (Signature): *[Signature]*
 Date/Time Released: **06/17/11**
 Delivery Method: **6/13 0600**
 To Archive/Disposal: **IATL-BY**



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Offices also in: 200 S. Michigan Ave., Suite 700 Chicago, Illinois 60604 phone: 312.356.5460 fax: 312.356.5499 Columbus, Ohio Gary, Indiana Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

Form with sections: 1. Sender's Name/Project No., 2. Sampling Site Address/Contact Telephone No., 3. Sampled by (Signature), 4. # of Samples in Shipment, 5. Date of Sample Shipment, 6. Date Results Needed, 7. Matrix, 8. Method Preserved, 9. Date, 10. Sampling Time, 11. Volume, 12. Indicate Analysis Requested, 13. Laboratory Number, 14. Released by (Signature), 15. Date/Time Released, 16. Delivery Method, 17. Time Out, 18. Total Hours, 19. Signature, 20. Company/Agency Affiliation, 21. Condition Noted.



IATL
INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway, Ste B
Mount Laurel, NJ 08054
Toll free: 877 428-4285
Local: 856-231-9449
Fax: 856-231-9818
info@iatl.com
www.iatl.com

PRELIMINARY RESULTS

ALSO AVAILABLE ON THE WEB

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Message: LEAD RESULTS

Clients can now access their reports via the web!

Simply request a Client Portal account to track your samples and access your reports, invoices, and signed COCs.

- For bulk asbestos analysis, if you require that certain samples move forward to gravimetric reduction TEM analysis (ex. TEM-NOB by ELAP 198.4 or equivalent), please look over your PLM bulk asbestos results, circle or highlight any samples/layers that require additional analysis, and submit to us as soon-as possible. FAX 856-231-9818, info@iatl.com.
- For airborne fiber counts by PCM 7400, if you require that certain samples move forward to airborne TEM analysis (ex. TEM-NIOSH 7402 or equivalent), please look over your PCM results, circle or highlight any samples that require additional analysis, and submit to us as soon as possible. FAX 856-231-9818, info@iatl.com.

Preliminary results are issued by iATL to expedite client decision making.
 There are several factors that limit these results: sampling methods, sampling data, packaging and handling.

These results may not have been reviewed by the Laboratory Director. Final Certificates of Analysis will follow these preliminary results. The signed COA is considered the official results.

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/21/2011
Report Number: 243587
Project: Naval Station Great Lakes
Project No.: 1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335228	A-11-PC-HA-217-01	Blue Paint Over Tar N. Of Bldg. 11	Void**
4335229	A-11-PC-HA-217-02	Blue Paint Over Tar N. Of Bldg. 11	0.011
4335230	A-11-PC-HA-217-03	Blue Paint Over Tar N. Of Bldg. 11	0.0087

Accreditations:

NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/17/2011
Date Analyzed: 6/21/2011
Analyst: C. Shaffer

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director



IATL
INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway, Ste B
Mount Laurel, NJ 08054
Toll free: 877 428-4285
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PRELIMINARY RESULTS

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For bulk asbestos analysis, if you require that certain samples move forward to gravimetric reduction TEM analysis (ex. TEM-NOB by ELAP 198.4 or equivalent), please look over your PLM bulk asbestos results, circle or highlight any samples/layers that require additional analysis, and submit to us as soon-as possible. FAX 856-231-9818, info@iatl.com.

For airborne fiber counts by PCM 7400, if you require that certain samples move forward to airborne TEM analysis (ex. TEM-NIOSH 7402 or equivalent), please look over your PCM results, circle or highlight any samples that require additional analysis, and submit to us as soon as possible. FAX 856-231-9818, info@iatl.com.

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CERTIFICATE OF ANALYSIS

Client: Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	Report Date: 6/21/2011 Report Number: 243159 Project: Naval Station Great Lakes Project No.: 1602.029
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LEAD PAINT SAMPLE ANALYSIS SUMMARY

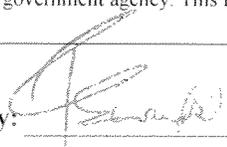
<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335238	PC-B11H-HA-1-1	White Paint/Wall	0.025
4335239	PC-B11G-HA-1-1	Red Paint/Sprinkler Pump	<0.011*
4335240	PC-B11B-HA-2-2	Grey Paint/Front Door	0.0082
4335241	PC-B11B-HA-1-1	Orange Paint/Front Door	0.68***
4335242	PC-B135-HA-1-1	White Paint/Walls	<0.0073
4335243	PC-B6509-HA-1-1	Grey Paint/Entry Holes	<0.0083
4335244	PC-B6501-HA-1-1	White Paint	<0.0054
4335245	PC-B6501-HA-2-2	Yellow Paint/Guard Rail	<0.010
4335246	PC-B11A-HA-1-1	Brown Paint/I-Beam	Void**
4335247	PC-B11G-HA-3-3	Brown Paint/Gutters	<0.0076

Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B;7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/14/2011
Date Analyzed: 6/21/2011
Analyst: C. Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client:	Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	Report Date:	6/21/2011
		Report Number:	243159
		Project:	Naval Station Great Lakes
		Project No.:	1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335248	PC-B11G-HA-2-2	White Paint/Interior Of Pump Room	<0.0070
4335249	PC-B811-HA-1-1	Grey Paint/I-Beams	<0.0077
4335250	PC-B811-HA-2-2	Beige Paint	<0.0094
4335251	PC-B811-HA-3-3	Orange Paint	Void**
4335252	PC-B811-HA-4-4	Lt. Blue Paint/Walls	<0.0068
4335253	PC-B811-HA-5-5	Sky Blue Paint/Bathroom	0.0095
4335254	PC-B811-HA-6-6	Black Paint/Roof Vents	<0.0082
4335255	PC-B811-HA-7-7	Beige Paint/Exterior	0.011***
4335256	PC-BS3-HA-2-2	Green Paint	0.0097***
4335257	PC-BS3-HA-1-1	Yellow Paint	<0.0072

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		Report Number:	243159
		Project:	Naval Station Great Lakes
		Project No.:	1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

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4335260	A-PC-11-HA-201-03	Green Over Orange Paint Steam Pipe Supports	21***
4335261	A-PC-11-HA-202-01	Yellow Paint/Concrete Supports For Steam Lines Near Bldg. 11	19
4335262	A-PC-11-HA-202-02	Yellow Paint/Concrete Supports For Steam Lines Near Bldg. 11	5.1***
4335263	A-PC-11-HA-202-03	Yellow Paint/Concrete Supports For Steam Lines Near Bldg. 11	7.1***
4335264	A-PC-11-HA-203-01	Black Paint/Concrete Support For Steam Line Near Bldg. 11	15
4335265	A-PC-11-HA-203-02	Black Paint/Concrete Support For Steam Line Near Bldg. 11	12
4335266	A-PC-11-HA-203-03	Black Paint/Concrete Support For Steam Line Near Bldg. 11	15
4335267	A-PC-103-HA-203-04	Black Paint/Metal Stairs	0.035

Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

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Analyst: C. Shaffer

CERTIFICATE OF ANALYSIS

Client: Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	Report Date: 6/21/2011 Report Number: 243159 Project: Naval Station Great Lakes Project No.: 1602.029
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LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335268	A-PC-HA-207-01	Additional Sample Received	<0.0061
4335269	A-PC-HA-207-02	Additional Sample Received	<0.0077
4335270	A-PC-HA-207-03	Additional Sample Received	0.065

Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
 AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
 EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

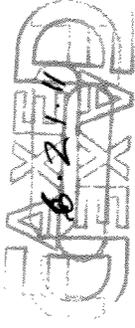
Date Received: 6/14/2011
Date Analyzed: 6/21/2011
Analyst: C. Shaffer



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
 Chicago, Illinois 60603
 Phone: 312-345-1400
 Fax: 312-345-0529

Offices also in:
 Columbus, Ohio
 Gary, Indiana
 Milwaukee, Wisconsin



Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested					
J. Janssen / 1602-029		Navy Station Great Lakes															
3. Sampled by (Signature)		4. # of Samples in Shipment				5. Date of Sample Shipment						6. Date Results Needed					
[Signature]		139				6/13/11						3-DAY					
Item No	Sample Number	Sample Location/Description	Matrix				Method Preserved /				VOLUME (L)	TIME (Minutes)	# of Containers	Laboratory Number			
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	H2SO4					ICE	NONE	OTHER
1	PC-B114- HA-1-1	White Paint on Wall	X					X							1	X	4335238
2	PC-B116- HA-1-1	Red Paint Sprinkler Pump															4335239
3	PC-B118- HA-2-8	Gray Paint Front Door															4335240
4	PC-B118- HA-1-1	Orange Front Door															4335241
5	PC-B115- HA-1-1	White Paint, Walls															4335242
6	PC-B6509- HA-1-1	Gray Paint, Entry Holes															4335243
7	PC-B6501- HA-1-1	White Paint															4335244
8	PC-B6501- HA-2-2	Yellow Paint, beam-wood Rail															4335245
9	PC-B11A- HA-1-1	I-Benn, Brown Paint, bottles															4335246
10	PC-B116- HA-3-3																4335247

Time In:	Time Out:	Total Hours:	Signature:	Print Name:
			[Signature]	FOEIVE
Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Company/Agency (Affiliation)
[Signature]	6/13 0600		[Signature]	JUN 4 2011
				Condition Noted
				ATL-BY



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

33 W. Monroe Street, Suite 1825
 Chicago, Illinois 60603
 Phone: 312-345-1400
 Fax: 312-345-0529

Offices also in:
 Columbus, Ohio
 Gary, Indiana
 Milwaukee, Wisconsin

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested		Laboratory Number				
3. Sampled by (Signature)		4. # of Samples in Shipment				5. Date of Sample Shipment						6. Date Results Needed			TIME (Minutes)	# of Containers		
Item No.	Sample Number	Sample Location/Description	COMP	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE	OTHER			Date	Sampling Time
1	PC-B811- HA-2-2	White Paint, Interior of Pump Room	X				X						X		6/9			4335248
2	PC-B811- HA-1-1	Gray Paint, I-Beams																4335249
3	PC-B811- HA-2-2	Beige																4335250
4	PC-B811- HA-3-3	ORANGE																4335251
5	PC-B811- HA-4-4	Light blue walls																4335252
6	PC-B811- HA-5-5	sky blue, bathroom																4335253
7	PC-B811- HA-6-6	Black paint on roof vents																4335254
8	PC-B811- HA-7-7	Beige Paint Exterior																4335255
9	PC-B811- HA-2-2	Green Paint																4335256
10	PC-B811- HA-1-1	Yellow Paint																4335257
Time In:		Time Out:		Total Hours:		Signature:		Print Name:		Company/Agency Affiliation:		Condition Noted:						

BATCH / SAMPLE MANAGEMENT REPORT

Customer No.: ENV374 Batch Number: **243159**
Customer: Environ. Design International Project: **Naval State Great Lakes**
33 W Monroe, Suite 1825 Project Number: **1602.029**
Chicago IL 60603 TAT: **5 Day**
Customer Rep: RS Date/Time Rec'd: **6/14/2011**
of Samples: **20** Analysis: **Lead Paint** Time/Date Due: **6/21/2011**

Initials Signaling Acknowledgement RTP: _____ To PLM NOB _____ To TEM NOB _____

Special Instructions:

Admin Notes: Portal

Shipping Error:

- _____ Samples were not received in a sealed container. Bulk samples not double bagged.
- _____ Air Cassettes received open in bag... sample integrity compromised, possible contamination.
- _____ Samples received wet.
- _____ Samples received covered with dust... possible cross contamination.
- _____ Sample containers damaged, contents spilled... possible cross contamination.
- _____ Paperwork received in the same bag as samples possible contamination.
- _____ No / Incomplete Chain of Custody Received.
- _____ No / Incomplete Sample Log Received.
- _____ Sample container IDs do not match the client's sample log.
- _____ No Turnaround Time indicated.
- _____ PCM Re-prep for TEM NIOSH 7402. Cassettes previously opened and portion of filter removed.
- _____ Blank(s) not submitted as required by the requested analytical method.
- _____ Minimum shipping requirements not attained. See attached Carrier Air Bill.
- _____ Other: _____

Batch Error:

- _____ Wrong Client ID Listed:
- _____ Wrong Client Location Listed:
- _____ Wrong Project ID Listed:
- _____ Wrong TurnAround Time Listed:
- _____ Wrong Due Date Listed:
- _____ Wrong Date/Time Received Listed:
- _____ Wrong Analysis Method Listed:
- _____ Wrong Number of Samples Listed:

Login Error:

- _____ Sample Log Stamped Incorrectly:
- _____ Sample Containers Mislabeled:
- _____ Duplicate / Extra Samples Not Stamped:
- _____ Analyst Bench Sheet Error:

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 06 / 21 / 11)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	99
Lab control Std # 401	0.494	105
Matrix Spike - LBP *	0.91	98
Matrix Spike - Wipe *	1.23	102
Matrix Spike - Soil *	0.552	107
Matrix spike - Air *	0.050	100
2.5 ppm Standard	0.25	100
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	103

AIHA LAP-LLC No. 100188

NYS-DOH ELAP No. 11021

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050 7420Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/l. reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.Analyzed By: R. Chad Shaffer
R. Chad ShafferDate: 6/21/11Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/21/2011
Report Number: 243587
Project: Naval Station Great Lakes
Project No.: 1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

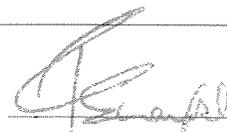
<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4335228	A-11-PC-HA-217-01	Blue Paint Over Tar N. Of Bldg. 11	Void**
4335229	A-11-PC-HA-217-02	Blue Paint Over Tar N. Of Bldg. 11	0.011
4335230	A-11-PC-HA-217-03	Blue Paint Over Tar N. Of Bldg. 11	0.0087

Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/17/2011
Date Analyzed: 6/21/2011
Analyst: C. Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director



33 W. Monroe Street
Chicago, Illinois 6066
Phone: 312-345-1400
Fax: 312-345-0529



Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

1165 Wisconsin Ave
1825

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.										Indicate Analysis Requested							
J. Janssen / 1602-029		Naval Station Great Lakes																	
3. Sampled by (Signature)		4. # of Samples in Shipment			5. Date of Sample Shipment							6. Date Results Needed							
[Signature]		74			6/16/2011							6/21/11							
Item No.	Sample Number	Sample Location/Description	Matrix						Method Preserved				TIME (Minutes)	# of Containers	Laboratory Number				
			WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO ₃	H ₂ SO ₄	ICE	NONE				OTHER	Date	Sampling Time	
1	A-116-HA-212-02	Beach Deck next to bldg-116	X																
2	A-116-HA-212-03																		
3	A-116-HA-213-02	insulation next to 116																	
4	A-116-HA-213-03																		
5	P-88-HA-215-02	12" tst																	
6	P-90-HA-216-03	tst-12" Sten pipe																	
7	A-11-PC-HA-217-01	Blue paint over top, No. 2 bldg-11																	
8	A-11-PC-HA-217-02																		
9	A-11-PC-HA-217-03																		
10	P-90-HA-218-01	tst-8" Sten pipe																	

Signature: _____ Total Hours: _____

Released by (Signature)	Date/Time Released	Delivery Method	Released by (Signature)	Date/Time Released	Company/Agency Affiliation	Condition Noted
[Signature]	6/16/11 1100			08B6/22/11	562/11	RECEIVED
		To Archiver/Disposal		06/17/11		JUN 17 2011

BATCH / SAMPLE MANAGEMENT REPORT

Customer No.: ENV374 Batch Number: **243587**
Customer: Environ. Design International Project: **Naval Station Great Lakes**
33 W Monroe, Suite 1825 Project Number: **1602-029**
Chicago IL 60603 TAT: **2 Day**
Customer Rep: RS Date/Time Rec'd: **6/17/2011**
of Samples: **3** Analysis: **Lead Paint** Time/Date Due: **6/21/2011**

Initials Signaling Acknowledgement RTP: _____ To PLM NOB _____ To TEM NOB _____

Special Instructions:

Admin Notes: Portal

Shipping Error:

- Samples were not received in a sealed container. Bulk samples not double bagged.
- Air Cassettes received open in bag... sample integrity compromised, possible contamination.
- Samples received wet.
- Samples received covered with dust... possible cross contamination.
- Sample containers damaged, contents spilled... possible cross contamination.
- Paperwork received in the same bag as samples possible contamination.
- No / Incomplete Chain of Custody Received.
- No / Incomplete Sample Log Received.
- Sample container IDs do not match the client's sample log.
- No Turnaround Time indicated.
- PCM Re-prep for TEM NIOSH 7402. Cassettes previously opened and portion of filter removed.
- Blank(s) not submitted as required by the requested analytical method.
- Minimum shipping requirements not attained. See attached Carrier Air Bill.
- Other:

Batch Error:

- Wrong Client ID Listed:
- Wrong Client Location Listed:
- Wrong Project ID Listed:
- Wrong TurnAround Time Listed:
- Wrong Due Date Listed:
- Wrong Date/Time Received Listed:
- Wrong Analysis Method Listed:
- Wrong Number of Samples Listed:

Login Error:

- Sample Log Stamped Incorrectly:
- Sample Containers Mislabeled:
- Duplicate / Extra Samples Not Stamped:
- Analyst Bench Sheet Error:

DAILY QUALITY CONTROL DATA**LEAD SAMPLE ANALYSIS**

(DATE: 06 / 21 / 11)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	99
Lab control Std # 401	0.494	105
Matrix Spike - LBP *	0.91	98
Matrix Spike - Wipe *	1.23	102
Matrix Spike - Soil *	0.552	107
Matrix spike - Air *	0.050	100
2.5 ppm Standard	0.25	100
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	103

AIHA LAP-LLC No. 100188**NYS-DOH** ELAP No. 11021

Analysis Method: ASTM D3335-85A
 NIOSH 7082
 EPA SW846 3050 7420

Comments: IATL assumes that all sampling complies with accepted methods.
 All client supplied sampling data is assumed to be correct when calculating results.
 Detection limit based upon 0.2 mg/L reporting limit and sample size.
 * NIST Traceable.
 ** 80-120% acceptable limits.

Analyzed By: R. Chad Shaffer
 R. Chad Shaffer

Date: 6/21/11

Approved By: Frank E. Eblenfeld, III
 Frank E. Eblenfeld, III
 Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/15/2011
Report Number: 243028
Project: NavalStationGreatLakes;6/7/11
Project No.: 1602.029

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4328463	PC-P239E-HA-4-11	Pastel Green Paint	0.019

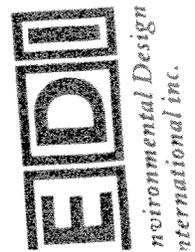
Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/13/2011
Date Analyzed: 6/15/2011
Analyst: C. Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director



33 W. Monroe Street, Suite 1825
 Chicago, Illinois 60603
 Phone: 312-345-1400
 Fax: 312-345-0529

Offices also in:
 Columbus, Ohio
 Gary, Indiana
 Milwaukee, Wisconsin

6/15/11 1:50p

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firm

1. Sender's Name/Project No. 167-1602-029
 2. Sampling Site Address/Contact Telephone No. Navel Station Great Lakes
 3. # of Samples in Shipment 10
 4. Date of Sample Shipment 6/15/11
 5. Date Results Needed

Sample Number	Sample Location/Description	Matrix							Method Preserved				Sampling Date	Time	VOLUME (L)	TIME (Minutes)	# of Containers	Indicate Analysis Requested	Laboratory Number
		COMP	WATER	SOIL	AIR	SLUDGE	OTHER	HCl	HNO3	H2SO4	ICE	NONE							
1	P-239E - Pastel brass pint	X																	4328463
2	HA-4-11 18" Pipe																		
3	P-410- HA-1-02 12" Pipe																		
4	P-410- HA-2-05 Expansion Joint																		
5	P-401A- HA-3-08 Expansion Joint																		
6	P-401- HA-3-09 18" Pipe Elbow																		
7	P-410- HA-4-11 12" Pipe Elbow																		
8	P-410- HA-5-14 Paper between metal brackets																		
9	P-410- HA-16-41 Paper between metal brackets																		
10	P-408- HA-16-46 Paper between metal brackets																		

Signature: _____
 Date/Time Released: 6/15/11
 Released by (Signature): [Signature]
 Date/Time Released: 6/16/2011
 Released by (Signature): [Signature]
 Delivery Method: _____
 To Archive/Disposal: _____
 Company/Agency: PLM HAS
 Laboratory Number: 4328463
 Print Name: _____
 RECEIVED JUN 13 2011
 IATL - BY: _____
 Report Number: _____

White - Client/Customer Copy
 Yellow - Billing Copy
 Pink - In-House File Copy



BATCH / SAMPLE MANAGEMENT REPORT

Customer No.: ENV374 Batch Number: **243028**

Customer: Environ. Design International Project: **Naval Station Great Lakes**
 33 W Monroe, Suite 1825
 Chicago IL 60603 Project Number: **1602.029**

Customer Rep: RS TAT: ~~No TAT~~ *30 Day as per RS*
 Date/Time Rec'd: **6/13/2011**

of Samples: **1** Analysis: **Lead Paint** Time/Date Due: *6/16*

Initials Signaling Acknowledgement RTP: _____ To PLM NOB _____ To TEM NOB _____

Special Instructions:

Admin Notes: Portal

Shipping Error:

- _____ Samples were not received in a sealed container. Bulk samples not double bagged.
- _____ Air Cassettes received open in bag... sample integrity compromised, possible contamination.
- _____ Samples received wet.
- _____ Samples received covered with dust... possible cross contamination.
- _____ Sample containers damaged, contents spilled... possible cross contamination.
- _____ Paperwork received in the same bag as samples possible contamination.
- _____ No / Incomplete Chain of Custody Received.
- _____ No / Incomplete Sample Log Received.
- _____ Sample container IDs do not match the client's sample log.
- _____ No Turnaround Time indicated.
- _____ PCM Re-prep for TEM NIOSH 7402. Cassettes previously opened and portion of filter removed.
- _____ Blank(s) not submitted as required by the requested analytical method.
- _____ Minimum shipping requirements not attained. See attached Carrier Air Bill.
- _____ Other: _____

Batch Error:

- _____ Wrong Client ID Listed:
- _____ Wrong Client Location Listed:
- _____ Wrong Project ID Listed:
- _____ Wrong TurnAround Time Listed:
- _____ Wrong Due Date Listed:
- _____ Wrong Date/Time Received Listed:
- _____ Wrong Analysis Method Listed:
- _____ Wrong Number of Samples Listed:

Login Error:

- _____ Sample Log Stamped Incorrectly:
- _____ Sample Containers Mislabeled:
- _____ Duplicate / Extra Samples Not Stamped:
- _____ Analyst Bench Sheet Error:

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 06 / 15 / 11)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	99
Lab control Std # 401	0.446	104
Matrix Spike - LBP *	1.22	103
Matrix Spike - Wipe *	1.23	105
Matrix Spike - Soil *	0.498	95
Matrix spike - Air *	0.050	102
2.5 ppm Standard	0.25	97
10.0 ppm Standard	1.0	98
40.0 ppm Standard	4.0	102

AIHA LAP-LLC No. 100188

NYS-DOH ELAP No. 11021

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050 7420Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.Analyzed By: R. Chad Shaffer
R. Chad ShafferDate: 6/15/11Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Environ. Design International
33 W Monroe, Suite 1825
Chicago IL 60603

Report Date: 6/13/2011
Report Number: 242499
Project: NavalStationGreatLakes;6/6/11
Project No.: 1602.029.01

LEAD PAINT SAMPLE ANALYSIS SUMMARY

<u>Lab No.</u>	<u>Client No.</u>	<u>Location / Description</u>	<u>Concentration Lead By Weight (%)</u>
4326141	PC-423-HA-3-7	Grey Paint On 12"&18" Pipes Pit #423	0.017
4326142	PC-419-HA-01-01	Grey Paint On Valve Pit #419	0.043
4326143	PC-419-HA-2-04	Green Paint On Valve Fitting Pit #419	<0.0075
4326144	PC-422-HA-4-10	Pastel Green Paint Pit #422	<0.0076

Accreditations: **NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)**
AIHA-LAP, LLC No. 100188 NYSDOH-ELAP No. 11021

Analytical Methods: ASTM D3335-85A "Standard Method To Test For Low Concentrations Of Lead In Paint By Atomic Absorption Spectrophotometry"
EPA SW846-(3050B:7000B) "Standard Method To Test For Low Concentrations Of Lead In Soils, Sludges and Sediments By AAS"

Comments: Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation. All results are based on the samples as received at the lab. IATL assumes that appropriate sampling methods have been used and the data upon which these results are based have been accurately supplied by the client. Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies. LSD=0.2 ppm MDL=0.0024% by weight. RL= 0.010% by weight (based upon 100 mg sampled). * Insufficient sample provided to perform QC reanalysis (<200 mg) ** Not enough sample provided to analyze (<50 mg) *** Matrix / substrate interference possible. Sample results are not corrected for contamination by field or analytical blanks. This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any government agency. This report shall not be reproduced except in full, without written approval of the laboratory.

Date Received: 6/9/2011
Date Analyzed: 6/13/2011
Analyst: C. Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director



33 W. Monroe Street, Suite 1825
Chicago, Illinois 60603
Phone: 312-345-1400
Fax: 312-345-0529

Offices also in:
Columbus, Ohio
Gary, Indiana
Milwaukee, Wisconsin

FAXED
6-13-11

Custody and Sample Information - Complete ALL information. Put N/A in blanks not applicable. Press firmly.

1. Sender's Name/Project No.		2. Sampling Site Address/Contact Telephone No.		Indicate Analysis Requested		Laboratory Number					
Jussien / 16-02-029-01		Naval Station Great Lakes									
3. Sampled by (Signature)		4. # of Samples in Shipment		5. Date of Sample Shipment		6. Date Results Needed					
[Signature]		21		3-Day SAT							
Item No.	Sample Number	Sample Location/Description	Matrix				VOLUME (L)	TIME (Minutes)	# of Containers		
			WATER	SOIL	AIR	SLUDGE				OTHER	
			Method Preserved								
			H2SO4	HNO3	HCl	ICE	NONE	OTHER	Date	Time	
1	PL-423- HA-5-7	Gray paint on 12" 18" pipe PIT #423 4326141			X				X	6/6	
2	PL-419- HA-61-01	Gray paint on valve PIT #419									
3	PL-419- HA-2-04	Green paint on valve - fitting PIT #419									
4	PL-422- HA-4-10	Pastel Green paint PIT #422 4326144									
5	P-422- HA-10-28	TST 12" Pipe	X								
6	P-422- HA-10-29	TST 12" pipe									
7	P-422- HA-10-30	TST 12" pipe									
8	P-422- HA-11-31	TST 12" pipe									
9	P-422- HA-11-32	TST 12" pipe									
10	P-422- HA-11-33	TST 12" pipe									
Time In:			Total Hours:			Signature:			Print Name:		
Released by (Signature)			Delivery Method			Released by (Signature)			Date/Time Released		
[Signature]			6/7 from 1600			[Signature]			6/6/11		
To Archive/Disposal			To Archive/Disposal			To Archive/Disposal			To Archive/Disposal		
Company/Agency			Condition Noted			Company/Agency			Condition Noted		
RECEIVED			RECEIVED			RECEIVED			RECEIVED		
JUN - 9 2011			JUN - 9 2011			JUN - 9 2011			JUN - 9 2011		



BATCH / SAMPLE MANAGEMENT REPORT

Customer No.: ENV374	Batch Number: 242499
Customer: Environ. Design International 33 W Monroe, Suite 1825 Chicago IL 60603	Project: Naval Station Great Lakes
Customer Rep: RS	Project Number: 1602.029.01
	TAT: 3 Day
	Date/Time Rec'd: 6/9/2011
# of Samples: 4	Analysis: Lead Paint
	Time/Date Due: 6/14/2011

Initials Signaling Acknowledgement RTP: _____ To PLM NOB _____ To TEM NOB _____

Special Instructions:

Admin Notes: Portal

Shipping Error:

- _____ Samples were not received in a sealed container. Bulk samples not double bagged.
- _____ Air Cassettes received open in bag... sample integrity compromised, possible contamination.
- _____ Samples received wet.
- _____ Samples received covered with dust... possible cross contamination.
- _____ Sample containers damaged, contents spilled... possible cross contamination.
- _____ Paperwork received in the same bag as samples possible contamination.
- _____ No / Incomplete Chain of Custody Received.
- _____ No / Incomplete Sample Log Received.
- _____ Sample container IDs do not match the client's sample log.
- _____ No Turnaround Time indicated.
- _____ PCM Re-prep for TEM NIOSH 7402. Cassettes previously opened and portion of filter removed.
- _____ Blank(s) not submitted as required by the requested analytical method.
- _____ Minimum shipping requirements not attained. See attached Carrier Air Bill.
- _____ Other: _____

Batch Error:

- _____ Wrong Client ID Listed:
- _____ Wrong Client Location Listed:
- _____ Wrong Project ID Listed:
- _____ Wrong TurnAround Time Listed:
- _____ Wrong Due Date Listed:
- _____ Wrong Date/Time Received Listed:
- _____ Wrong Analysis Method Listed:
- _____ Wrong Number of Samples Listed:

Login Error:

- _____ Sample Log Stamped Incorrectly:
- _____ Sample Containers Mislabeled:
- _____ Duplicate / Extra Samples Not Stamped:
- _____ Analyst Bench Sheet Error:

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 06 / 13 / 11)

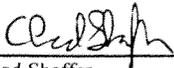
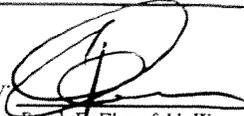
Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	99
Lab control Std # 401	0.454	104
Matrix Spike - LBP *	0.92	99
Matrix Spike - Wipe *	0.97	104
Matrix Spike - Soil *	0.512	93
Matrix spike - Air *	0.050	98
2.5 ppm Standard	0.25	98
10.0 ppm Standard	1.0	98
40.0 ppm Standard	4.0	102

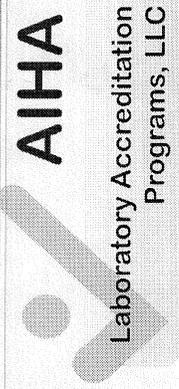
AIHA LAP-LLC No. 100188

NYS-DOH ELAP No. 11021

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050 7420

Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: 
R. Chad ShafferDate: 6/13/11Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director



AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

International Asbestos Testing Laboratories (IATL)

9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054

Laboratory ID: 100188

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

ACCREDITATION PROGRAMS

- ✓ **INDUSTRIAL HYGIENE** Accreditation Expires: 05/01/2011
- ✓ **ENVIRONMENTAL LEAD** Accreditation Expires: 05/01/2011
- ENVIRONMENTAL MICROBIOLOGY** Accreditation Expires:
- FOOD** Accreditation Expires:

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



Pamela A. Kostle, CIH
Chairperson, Analytical Accreditation Board

Date Issued: 05/01/2009



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

International Asbestos Testing Laboratories (IATL)
 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054

Laboratory ID: **100188**
 Issue Date: 05/01/2009

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

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 03/01/1991

IHLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Core Program Testing	AA	NIOSH 7082	
	Polarized Light Microscopy (PLM)	EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)	NIOSH 7400	
	Transmission Electron Microscopy (TEM)	NIOSH 7402	

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

- | | |
|---|--|
| <input checked="" type="checkbox"/> Metals*
<input type="checkbox"/> Silica*
<input checked="" type="checkbox"/> Asbestos*
<input type="checkbox"/> Bulk Asbestos*
<input type="checkbox"/> Beryllium*
<input type="checkbox"/> WASP ¹ (Thermal Desorption Tubes)
<input type="checkbox"/> Pharmaceutical Round Robin
<input type="checkbox"/> Compressed/Breathing Air Round Robin
<input type="checkbox"/> NVLAP (determined at the time of site assessment) | <input type="checkbox"/> Organic Solvents*
<input type="checkbox"/> Diffusive Sampler (3M)*
<input type="checkbox"/> Diffusive Sampler (SKC)*
<input type="checkbox"/> Diffusive Sampler (AT)*
<input type="checkbox"/> WASP ¹ (Formaldehyde) |
|---|--|

¹ Workplace Analytical Scheme for Proficiency



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

International Asbestos Testing Laboratories (IATL)
9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054

Laboratory ID: **100188**
Issue Date: 05/01/2009

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

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

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 1/20/1997

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Airborne Dust	NIOSH 7082	
Paint	ASTM D3335-85a	
Settled Dust By Wipe	EPA SW-846 7420	
Soil	EPA SW-846 7420	

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

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



09/28/2011

Laboratory ID: 100188

Frank Ehrenfeld
International Asbestos Testing Laboratories (IATL)
9000 Commerce Parkway
Suite B
Mt. Laurel, NJ 08054

Dear Mr. Frank Ehrenfeld:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved International Asbestos Testing Laboratories (IATL) as an accredited Industrial Hygiene and Environmental Lead laboratory.

Accreditation documentation includes the IHLAP and ELLAP accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation logo has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the logo in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation logo will be sent to you. Please inform us if your laboratory does not wish to use the logo in advertising.

Laboratory accreditation shall be maintained by continued compliance with IHLAP and ELLAP requirements (*see Policy Modules 2B, 2C, 6B, and 6C*), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated PT-Scope table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP and ELLAP.

Again, congratulations. If you have any questions, please contact Edmund Wong, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton
Director
AIHA Laboratory Accreditation Programs, LLC



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

International Asbestos Testing Laboratories (IATL)

9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054

Laboratory ID: 100188

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

LABORATORY ACCREDITATION PROGRAMS

- | | |
|---|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 05/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 05/01/2013 |
| <input type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: |
| <input type="checkbox"/> FOOD | Accreditation Expires: |

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

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 11: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 10/01/2011



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

International Asbestos Testing Laboratories (IATL)
 9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054

Laboratory ID: **100188**
 Issue Date: 10/01/2011

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

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 03/01/1991

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/ Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Spectrometry Core	Atomic Absorption	FAA	NIOSH 7082	
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	
	Transmission Electron Microscopy (TEM)		NIOSH 7402	

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

- | | |
|---|--|
| <ul style="list-style-type: none"> √ AIHA-PAT Programs, LLC IHPAT Metals <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Organic Solvents <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Silica <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (3M) <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (SKC) <input type="checkbox"/> AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (AT) √ AIHA-PAT Programs, LLC IHPAT Asbestos <input type="checkbox"/> AIHA-PAT Programs, LLC Bulk Asbestos (BAPAT) <input type="checkbox"/> AIHA-PAT Programs, LLC Beryllium (BePAT) <input type="checkbox"/> HSE Workplace Analytical Scheme for Proficiency (WASP) (Formaldehyde) <input type="checkbox"/> HSE Workplace Analytical Scheme for Proficiency (WASP) (Thermal Desorption Tubes) | <ul style="list-style-type: none"> <input type="checkbox"/> Pharmaceutical Round Robin <input type="checkbox"/> Compressed/Breathing Air Round Robin √ National Voluntary Laboratory Accreditation Program (NVLAP - determined at the time of site assessment) <input type="checkbox"/> New York State Department of Health (NYS DOH – PCM and TEM) <input type="checkbox"/> ERA Air and Emissions standards for indoor air quality <input type="checkbox"/> Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, formerly BGIA) <input type="checkbox"/> Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail (IRSST) |
|---|--|



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

International Asbestos Testing Laboratories (IATL)
9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054

Laboratory ID: **100188**
Issue Date: 10/01/2011

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

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

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/20/1997

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Airborne Dust	NIOSH 7082	
Paint	ASTM D3335-85a	
Settled Dust by Wipe	EPA SW-846 7420	
Soil	EPA SW-846 7420	

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

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

Appendix G: Hazardous Materials Table

Environmental Design International, inc.

Naval Station Great Lakes
 Basewide Steam Lines Targeted for Demolition
 Great Lakes, Illinois
 EDI Project No. 1602.029

Hazardous Materials Log

Material Description	Building	Estimated Quantity
Thermometers	6502	3
Electrical panel box	6502	1
Ammonia liquid supply line	6502	1
Engine oil	6503	5 -55 gallon drums
Fire Extinguisher	6503	1
Lube oil tank (day tank)	6503	2
Fluorescent light bulbs	6503	12
Ammonia Hydroxide	6501	Tank
Gauges/thermometers	6501	3
Reverse osmosis cleaner	1709	2
Fire Extinguisher	811A	2
Transformers	811A	4
Cleaners	811A	25
Cleaner	811A	1-55 gallon drum
Ballasts	811A	6 boxes
Hydraulic oil	811A	2-5 gallon drums
Gasoline	811A	3-1 gallon drums
Sulfur hexafluoride	811A	11- 5 gallon cylinders
Nitrogen	811A	5-5 gallon cylinders
Fluorescent lighting	135	7 boxes
Ballasts	135	20
Transformers	135	20
Electrical panels	135	10
Flammable cleaning products	135	8
Oil rag cans	135	2
Chemicals (lubricants, liquid/solid sulfite, adhesives etc.)	135	25
Refrigerator	135	1
Gasmeter	11H	2
Gas supply line	11H	2
Gear oil	11G	25-3 gallon barrels
Electrical panels/ switches	11G	8
Transformer	11G	6
Fuel pump	11G	3
Foam concentrate	11G	1-150 gallon tank
Cleaners	11G	3

Environmental Design International, inc.

Naval Station Great Lakes
Basewide Steam Lines Targeted for Demolition
Great Lakes, Illinois
EDI Project No. 1602.029

Hazardous Materials Log

Material Description	Building	Estimated Quantity
Oil dry	11G	1
Paint	11B	4
Lubricating oil	11B	14-55 gallon drums
Lubrication oil	11B	12-5 gallon barrels
Fire Extinguisher	11B	1
Florescent light bulbs	811	80
Electrical room - high voltage area	811	600 SF of electrical equipment
Cleaners	811	22
Ice box	811	1
Fire Extinguishers	811	6
Exit sign	811	7
Air conditioner unit	811	1
Air compressor oxygen tank	811	1-55 gallon
Thermometer	811	5
Thermostat	811	4
Electrical panel	811	4
Dome florescent lighting	811	40
Transformer	811	1

Appendix H: Employee Licenses and Certifications



**ASBESTOS
PROFESSIONAL
LICENSE**

ID NUMBER 100 - 10088
ISSUED 3/16/2011
EXPIRES 05/15/2012

JOSE G AGUILERA
2652 S. CENTRAL PARK AVEN
CHICAGO, IL 60623
Environmental Health



This is to Certify that
Jose Aguilera
Has Satisfactorily Completed Training in Accordance
with Applicable Rules and Regulations
Asbestos Building Inspector Refresher

Completed: 1/19/2011 Certificate
Expires: 1/19/2012 BIR101190180

2011
Occupational Training & Supply, Inc.
7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Heartsaver® First Aid
Jose Aguilera

This card certifies that the above individual has successfully completed the objectives and skills evaluations in accordance with the curriculum of the AHA for Heartsaver First Aid Program.

Modules Completed: (A) (B) (C) (D) (E)

AUG 21 2010 **AUG 21 2012**
Issue Date Recommended Renewal Date



Learn and Live

Training Center _____
TC Address _____
Contact Info _____
Course **CHICAGOLAND CPR & SAFETY TRAINING**
Location **THOMAS DUKUPS**
Instructor **708-259-6018**

Holder's Signature *Jose Aguilera*
American Heart Association
Tampering with this card will alter its appearance. 80-1-2c

ENDORSEMENTS

TC EXPIRES

INSPECTOR

4/19/2012

PROJECT MANAGER

7/30/2011

AIR SAMPLING PROFESSIONAL

Alteration of this license shall result in legal action

This license issued under authority of the State of Illinois

Department of Public Health

This license is valid only when accompanied by a valid
training course certificate.



Occupational Training & Supply, Inc.

7233 Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Jose G. Aguilera

has successfully completed the 16 hour Lead Risk Assessor course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Lead Risk Assessor

Course Date: 4/2-3/2009

Expiration Date: 4/3/2012

Exam Date: 4/3/2009

Certificate: LRA0904021069



Kathy DeSalvo Director

2009



**ASBESTOS
PROFESSIONAL
LICENSE**

ID NUMBER
100 - 00249

ISSUED
2/8/2011

EXPIRES
05/15/2012

JOHN C FEELY
9513 SOUTH LAWTON AVENUE
OAK LAWN, IL 60453



Environmental Health



**LEAD RISK
ASSESSOR LICENSE**

LEAD ID ISSUED
007573 1/6/2011

EXPIRES
1/31/2012

John C Feely
9513 S. Lawton
Oak Lawn, IL 60453



ILLINOIS LEAD PROGRAM
Environmental Health



Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

John Feely

has successfully completed the 4 hour Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health and the Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.

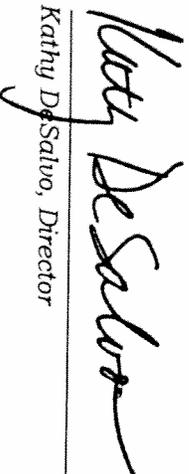
**Asbestos Building Inspector
Refresher**

Course Date: 1/7/2011

Expiration Date: 1/7/2012

Exam Date: 1/7/2011

Certificate: BIR1101070045


Kathy DeSalvo, Director

2011



**ASBESTOS
PROFESSIONAL
LICENSE**

ID NUMBER
100 - 18299

ISSUED
4/11/2011

EXPIRES
05/15/2012

CRAIG A CHAMBERS
1438 W EDGEWATER AVE
CHICAGO, IL 60660

Environmental Health



ENDORSEMENTS

TC EXPIRES

PROJECT DESIGNER

4/1/2012

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid
training course certificate.