SUBMITTAL

ENVIRONMENTAL SURVEY
P816 PHASE V AMENDED
BUILDING 11
NAVAL STATION GREAT LAKES, ILLINOIS

NAVFAC MIDWEST REQUEST NO. EPROJECT WO #: 1898016

Prepared for

NAVFAC MIDWEST
Building 1A, 201 Decatur
Great Lakes, IL 60088

Prepared by

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In Association With

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November 21, 2011

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

NAVFAC
Naval Facilities Engineering Command

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INTRODUCTION

ENVIRONMENTAL SURVEY P816 PHASE V – AMENDENDED REPORT BUILDING 11

BUILDING 11 ASBESTOS SURVEY, CAPE ENVIRONMENTAL, MARCH 1992

1.0 INTRODUCTION

Bloom Companies, LLC (Bloom), in association with Environmental Consulting Group, Inc. (ECG), is pleased to submit the enclosed project deliverables associated with the Environmental Survey P816 Phase V Amended Report for Building 11 at Naval Station Great Lakes, Illinois. Our submittal includes environmental survey results including asbestos materials testing and the lead-based paint inspection conducted at Building 11in March and October of 2011.

The work on this project was performed under NAVFAC-Midwest BPA Contract No. N40083-07-A-0013, Task Order 0036.

We appreciate the opportunity to provide these services for you.

REPORT (Amended)

Environmental Survey
P816 Phase V
Building 11
Naval Station Great Lakes
Great Lakes, Illinois

Prepared for:

Ms. Judy Fassbender
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ECG Project Number: A111305-104
Date: November 11, 2011

1.0 EXECUTIVE SUMMARY

On March 15, 2011, Environmental Consulting Group, Inc. (ECG) completed an environmental survey of Building 11 associated with the P816 Phase V demolition project at Naval Station Great Lakes, in Great Lakes, Illinois. The purpose of the survey was to determine the presence, location, and quantity of asbestos, lead-based paint, and other hazardous materials throughout the building that may be impacted during upcoming demolition work.

As part of this survey, ECG completed additional asbestos inspection and sampling activities in Building 11 between October 17 and October 21, 2011. These additional activities were completed to determine the presence, location, and quantity of asbestos-containing materials that were not definitively identified during ECG's March 15, 2011 survey.

An overview of the Building 11 Environmental Survey results is included below.

Overview of Survey Results

Asbestos Survey Results (March 15, 2011)

On March 15, 2011, a total of 120 bulk samples of suspect asbestos-containing materials (ACMs) were obtained from Building 11. Of this amount, a total of 41 samples were found to be ACMs. See Tables I and II in Attachment A for detailed asbestos results.

Asbestos Survey Results (October 17-21, 2011)

Between October 17 and October 21, 2011, ECG collected a total of 148 bulk samples of suspect asbestos-containing materials from Building 11. Of the 148 samples, 109 samples were associated with newly sampled materials and 39 samples were associated with materials previously sampled during ECG's March 2011 environmental survey. A brief summary of the October asbestos survey results is included below. See Tables I and II in Attachment A for detailed asbestos results.

Asbestos Results – "Newly Sampled" Materials

Of the 109 samples, 42 samples were found to be ACMs

Asbestos Results – "Previously Sampled" Materials

Thirty-six (36) samples of floor tile and floor tile mastic that were not found to be ACMs during ECG's March 2011 environmental survey were re-analyzed by Transmission Electron Microscopy (TEM). None of these 36 samples were found to be ACMs by TEM analysis.

Three (3) window glaze samples that were previously identified as ACMs during ECG's March 2011 survey were re-analyzed using the PLM Point Count Method. The glaze samples, collected in the Southwest Section of the 1st floor, were found to be non-asbestos-containing materials (0% asbestos) by the Point Count Analysis.

Asbestos Results – Asbestos Materials Previously Identified

Testing that was completed during previous environmental surveys has identified a number of asbestos-containing materials in Building 11. Tables I and II in Attachment A identify the materials that were tested and identified as ACMs during previous surveys.

Lead Survey Results

A total of twenty (20) paint chip samples of suspect lead-based paint (LBP) were obtained during this inspection. Of this amount, a total of seven (7) samples were analyzed as positive for lead content. See the Tables in Attachment B for detailed lead results.

Hazardous Materials Survey Results

A number of miscellaneous hazardous materials were identified during ECG's survey. See the materials listed in Section 4.3 of this report for further details.

Attachments at the end of this report contain detailed inspection results, sample locations, and photographs of areas inspected during Phase V.

2.0 SCOPE-OF-WORK

The scope-of-work for this survey was to determine the presence, location, and quantity of asbestos, lead-based paint, and other hazardous materials that may be impacted during upcoming demolition of the building.

The environmental survey was conducted by ECG representatives Mr. Luke Nienhaus, Mr. Jacob Mueller, and Mr. Thad Ryniak, and Mr. Robert Johnson. Mr. Nienhaus, Mr. Mueller, and Mr. Ryniak are Illinois Department of Public Health (IDPH)-licensed asbestos building inspectors, lead inspectors, and lead risk assessors. Mr. Johnson is an IDPH-licensed asbestos building inspector. Photocopies of ECG's worker licenses and certifications are included in Attachment D of this report.

The sampling and inspection activities were completed on March 15, 2011, and between October 17 and October 21, 2011. The sampling and inspection activities in October of 2011 were completed to determine the presence, location, and quantity of asbestos materials that were not sampled on March 15, 2011. Additionally, certain materials (that were initially tested during the March 2011 survey) were re-analyzed to more definitively determine whether they are ACMs.

Note: Materials bearing stencil marks indicating "ASBESTOS" were not sampled; these materials were previously identified as "positive." See Tables I and II of Attachment A for a list of these "Assumed" Asbestos Materials.

In order to complete this survey and the accompanying report, ECG utilized historical information from several past environmental survey reports, including:

- Bldg 11 Asbestos Survey – Cape Environmental – March 1992
- Comprehensive Environmental Survey, Naval Station Great Lakes, Illinois, Building 11 De-Aerator Area – EDI – March 28, 2008
- Comprehensive Environmental Survey, Naval Station Great Lakes, Illinois, Building 11 De-Aerator (Lower Section)/350 Header Area – EDI – May 8, 2008

3.0 ANALYTICAL TESTING METHODS

3.1 Asbestos Material Testing

All samples were submitted to EMSL Analytical Inc. (EMSL), located at 2225 W. Hubbard Street, in Chicago, Illinois. EMSL is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP), Laboratory #200399-0. All analysis was carried out in accordance using EPA-recognized methods for determining asbestos content in bulk samples.

Polarized Light Microscopy Analysis (PLM)

All newly sampled materials collected during this survey were initially analyzed by the Polarized Light Microscopy (PLM) method. PLM is an Environmental Protection Agency (EPA)-recognized method for determining asbestos content in bulk samples.

Polarized Light Microscopy Point Count Analysis (PLM Point Count)

In accordance with the scope of work, the PLM Point Count method was to be used to analyze certain materials. Specifically, the PLM Point Count Method was used to analyze the following:

- Window glaze material located in the "Southwest Section of the 1st Floor." The window glaze was initially sampled during ECG's March 2011 environmental survey, and is identified by the following Sample IDs: SW1-1D, SW1-2D, and SW1-3D
- All non-friable materials analyzed by PLM and found to contain asbestos content between 1% and 5%. For the samples collected in October, this included 3 samples of white window caulking and 3 samples of window glaze. The white window caulk is associated with the "Old Side east exterior window," and is identified by Sample IDs Ex-04, Ex-05, and Ex-06. The window glaze is associated with the "East exterior window above 3rd floor office," and is identified by Sample IDs Ex-16, Ex-17, and Ex-18.
- ECG was also instructed to use the PLM Point Count method to analyze all sampled friable materials that were initially analyzed by PLM and found to contain less than 10% asbestos content; however, no such samples were identified by the asbestos sampling completed during the October survey.

Transmission Electron Microscopy Analysis (TEM)

In accordance with the scope of work, the Transmission Electron Microscopy (TEM) method was to be used to re-analyze certain floor tile and mastic materials that were previously sampled and analyzed by PLM during ECG's March 2011 environmental survey. The floor tile and mastic samples that were re-analyzed using TEM are associated with the following Sample IDs:

- SW1-1BT to 3BT
- SW1-1BM to 3BM
- SW1-1ET to 3ET
- SW1-1EM to 3EM
- OFF3-1CT to 3CT
- OFF3-1CM to 3CM
- OFF3-1ET to 3ET
- OFF3-1EM to 3EM
- OFF3-1FT to 3FT
- OFF3-1FM to 3FM
- OFF2-1BT to 3BT

- OFF2-1BM to 3BM

3.2 Lead-Based Paint Testing

A total of twenty (20) chip samples of suspect lead-based paint were collected from surfaces within the subject building. These samples were submitted to EMSL as well. EMSL is an American Industrial Hygiene Association (AIHA) and Environmental Lead Laboratory Accreditation Program (ELLAP)-accredited laboratory (Lab #102992). The analysis was conducted in accordance with AIHA standards using Flame Atomic Absorption Spectroscopy.

4.0 RESULTS

A Note About Area Descriptions

Prior to beginning our inspection for Building 11, ECG spoke with Jim Swan (the Boiler Plant Supervisor) regarding relevant names of each "section" of Building 11. This was done to ensure clarity regarding where each sample was taken and where each observation was made. Mr. Swan indicated to ECG the descriptions that building personnel use to identify each building section. For our final report, ECG decided that it would be clearer to use these new descriptions.
The report text and the updated sample tables include the newly named areas and, in parentheses, the original section names used in ECG's March Environmental Survey Report.

Included below are the new area names, and what they were originally identified as in the March report:

"New Side" (NS) and "Boiler 4" (B) refer to the "Northeast Section."

"Cogen" (CG) refers to the "Northwest Section." "Cogen" only encompasses the area north of the control room. There are two levels referenced in the "Cogen" section: the upper level (UP) and lower level (LL).

"Old Side" (OS) refers to the south part of the "Northwest section." This area includes the locker room and main control room.

"Engine Room" (ER) refers to the "Southwest Section" (Basement through 3rd Floors). Samples from the second and third floors were labeled "OFF2" and "OFF3," respectively in the March

report. Floor tiles and window glazing were re-sampled in these areas per Navy request by TEM analysis and Point Count analysis. These re-sampled materials kept their same sample numbers to maintain consistency and make them easily referenced.

"Exterior" (EX) was the final section, and samples are consistent with the original March survey report.

4.1 Analytical Results – Suspect ACM Sampling

The U.S. Environmental Protection Agency (EPA) defines an asbestos containing material (ACM) as any material containing greater than 1% asbestos by weight.

During this survey, the following homogeneous materials were found to be ACMs:

Boiler #4 (B) – (Northeast Section)

- Boiler access door insulation
- Asphalt roofing – Black

New Side (NS) – (Northeast Section)

- Pipe insulation fitting
- Pipe insulation
- Pipe insulation/fitting
- Window glaze
- Boiler door gasket – Boiler door
- Boiler #5 Gasket / Rope material – Boiler #5 / 4th Floor

Co-Gen (CG) – (Northwest Section)

- No asbestos-containing materials identified through testing.

Old Side (OS) – (Northwest Section)

- Pipe insulation fitting
- Pipe insulation

Engine Room (ER) – (Southwest Section)

- 12”x12” Floor tile – White w/ maroon streaks
- Mastic associated w/ white floor tiles

- 12”x12” Floor tile – Green
- Mastic associated w/ green floor tiles
- Pipe insulation

Exterior (EX) – (Exterior)

- Roofing Field – Black
- Window Glaze – White

The asbestos survey results are summarized in Tables I and II of Attachment A.

NOTE: The results tables in Attachment A identify the friability of materials as Friable (F), Non-friable Category I (NF), or Non-friable Category II (NF-II). According to the EPA’s “National Emission Standards for Hazardous Air Pollutants" (NESHAP), Category I non-friable ACM is any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product which contains more than one percent (1%) asbestos as determined using polarized light microscopy (PLM). Category II non-friable ACM is any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos as determined using PLM.

Laboratory analytical results and certifications are included in Attachment C. Building 11 sample location plans are included in Attachment D. Site photographs are included in Attachment F.

4.2 Analytical Results – Suspect Lead-Based Paint Sampling

Lead-based paint is regulated in the State of Illinois by the Illinois Department of Public Health (IDPH) under the Lead Poisoning Prevention Code (effective February 1, 1993). This code states that any paint that is equal to 5,000 parts per million of lead (equivalent to 0.5% lead by weight) is considered to be lead-based. Any paint substance that contains lead at a level equal to or exceeding 0.5% lead by weight must be properly handled under the guidelines set by IDPH. Multiple areas within Building 11 were found to contain materials that meet the IDPH definition of lead-based paint. These paints are listed below.

Engine Room (ER) – (Southwest Section)

- Tan Paint – Walls by Generator Area
- Yellow Paint – Stair Rail by Generator Area
- Green Paint – Pillars by the Generator Area
- Green Paint – Walls in the Machine Shop Room 303
- Blue Paint – Exterior Window in Conference Room 202

Co-Gen and Old side (CG, OS) – (Northwest Section)

- Silver Paint – Walls by Surge Tank Area
- Yellow Paint – Rail by Surge Tank Area

Detailed lead-based paint testing results are provided in a sample summary table included in Attachment B of this report. Building 11 sample location plans denoting lead-based paint sample locations are included in Attachment D, and photographs depicting suspect lead-based paint sample locations are included in Attachment F.

4.3 Miscellaneous Hazardous Materials Identified

A number of miscellaneous hazardous materials were identified during ECG's survey. These materials are listed below:

Engine Room (ER) – (Southwest Section) – 1st Floor

- 2 Waste Oil Drums
- 2 Lead Waste Drums
- 1 Lube Oil
- Safety Wash Station

Co-Gen and Old side (CG, OS) – (Northwest Section) – 1st Floor

- 18 Drums Sodium Bisulfate
- 1 Waste Oil Drum

Co-Gen and Old side (CG, OS) – (Northwest Section) – Mezzanine

- 4 Tanks Compressed Gas
- 2 Waste Oil Drums
- Fluorescent Lights

New Side and Boiler 4 (NS, B) – (Northeast Section) – 1st Floor

- 1 Drum Sodium Bisulfate
- 2 Drums Perm Clean
- 1 Drum Third Power Cleaner

5.0 CONCLUSIONS

Environmental Consulting Group has completed an environmental survey of Building 11 associated with the P816 Phase V demolition project at Naval Station Great Lakes, in Great Lakes, Illinois. The purpose of the survey was to determine the presence, location, and quantity of asbestos, lead-based paint, and other hazardous materials throughout the building that may be impacted during upcoming demolition work.

During the survey, ECG identified asbestos-containing materials, lead-based paint, and various miscellaneous hazardous materials in Building 11. The asbestos-containing materials that were identified during this survey are summarized in Section 4.1 of this report, and described in detail in Attachment A. The lead-based paint that was identified during this survey is summarized in Section 4.2 of this report, and described in detail in Attachment B. The miscellaneous hazardous materials that were identified during the survey are noted in Section 4.3 of this report.

Advisement Statement Regarding Hazardous Materials Exposure and Disposal

Most of the known asbestos and assumed asbestos materials are in good condition. Materials containing asbestos that are not disturbed or deteriorated do not, in general, pose a health risk and can be left alone and managed in place by the building owner. If an ACM becomes damaged, it should be repaired or removed as soon as possible. Any removed asbestos must be properly disposed in an EPA and IDPH approved landfill and manifested.

If you have any questions or comments, please contact our office.

Sincerely,

ENVIRONMENTAL CONSULTING GROUP, INC.

Luke Nienhaus
Project Manager

Attachments

Attachment A – Asbestos Sample Summary Tables
Attachment B – Lead-Based Paint Sample Summary Table
Attachment C – Laboratory Analytical Results and Lab Certifications
Attachment D – Building 11 Sample Location Plans
Attachment E – ECG Certifications
Attachment F – Photographs

Attachment A

Asbestos Sample Summary Tables

Table I

Asbestos Survey Results

P816 Phase V ï Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sample ID	Sampled Material Description	Results (P or N)	Asbestos Type	Friability	Test Method PLM, PLM Point Count, or TEM	Approximate Quantity / Pipe Diameter square feet (sf) linear feet (lf)	Functional Area / Floor(s)	Condition	Photo #
Homogeneous Area #1										
Boiler 4	B-01	Boiler mortar/brick	N	ï ï	N/A	PLM	~ 400 sf	Inside Boiler #4 / Main	Significantly Damaged	1
Boiler 4	B-02	Boiler mortar/brick	N	ï ï	N/A	PLM	~ 400 sf	Inside Boiler #4 / Main	Significantly Damaged	1
Boiler 4	B-03	Boiler mortar/brick	N	ï ï	N/A	PLM	~ 400 sf	Inside Boiler #4 / Main	Significantly Damaged	1
Homogeneous Area #2										
Boiler 4	B-04	Boiler access door insulation	N	ï ï	N/A	PLM	20 access doors	Inside Boiler #4 / Main	Significantly Damaged	2
Boiler 4	B-05	Boiler access door insulation	N	ï ï	N/A	PLM	20 access doors	Inside Boiler #4 / Main	Significantly Damaged	2
Boiler 4	B-06	Boiler access door insulation	N	ï ï	N/A	PLM	20 access doors	Inside Boiler #4 / Main	Significantly Damaged	2
Homogeneous Area #3										
Boiler 4	B-07	Pipe insulation	N	ï ï	N/A	PLM	25 lf / 2ò	West Central / Main-2	Good	74

RESULTS

P: Positive = Asbestos-containing Material

N: Negative = Non Asbestos-containing Material

SAMPLE ID and ASBESTOS TYPE

SC: See Cape Report (Attached)

ñ( )ò Indicates Photo # from March 2011 Survey Report

FRIABILITY

F: Friable

NF: Non-friable Category I

NF-II: Non-friable Category II

ND: Not Determined (Sampled by Others)

N/A: Not Applicable (Not ACM)

CONDITION

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

Table I

Asbestos Survey Results

P816 Phase V ï Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
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Boiler 4	B-08	Pipe insulation	N	ï ï	N/A	PLM	60 lf / 6ò	SW Corner / 4	Good	84
Boiler 4	B-10	Pipe insulation	N	ï ï	N/A	PLM	30 lf / 12ò	SW Corner / 4	Good	86/87
Boiler 4	SC	Pipe insulation	**P**	SC	ND	N/A	15 lf / 4ò	South side of Boiler #4 / 3	Damaged	82
Boiler 4	SC	Pipe insulation (Boiler #4 feed water)	**P**	SC	ND	N/A	12 lf / 4ò	Boiler #4 ï SW corner / 2	Good	78
Homogeneous Area #4										
Boiler 4	B-09	Pipe insulation fitting	N	ï ï	N/A	PLM	8 fittings / 6ò	SW Corner / 4	Good	85
Boiler 4	SC	Pipe insulation fitting	**P**	SC	ND	N/A	5 fittings	West central / Main	Good	74
Boiler 4	SC	Pipe insulation fitting	**P**	SC	ND	N/A	1 fitting / 3ò	SW corner of boiler / Main	Good	76
Homogeneous Area #5										
Boiler 4	SC	Pipe insulation/fittings (Exhaust)	**P**	SC	ND	N/A	20 lf / 8 fittings / 3ò	Between Boiler #4 Fan Exhaust	Good	75
Boiler 4	SC	Pipe insulation/fittings (Water tie crossover)	**P**	SC	ND	N/A	100 lf / 10 fittings / 4ò	Main-4	Good	79

RESULTS

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SAMPLE ID and ASBESTOS TYPE

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Boiler 4	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	30 lf / 2 fittings / 8ò	SW (Goes through wall) turns into fiberglass / 3-4	Good	81
Boiler 4	SC	Pipe insulation/fittings (Water tie crossover)	**P**	SC	ND	N/A	40 lf / 6 fittings / 2ò	West (Top of stairway) 2 pipes / 4	Damaged	83
Boiler 4	SC	Pipe insulation/fittings (Water tie crossover)	**P**	SC	ND	N/A	40 lf / 6 fittings / 2ò	East side of Boiler #4 (2 pipes) / 4	Damaged	90
Boiler 4	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	10 lf / 2 fittings / 12ò	Exterior pipe (extends out of south 4th floor)	Good	127/128
Boiler 4	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	10 lf / 2 fittings / 12ò	2 pipes outside / 4 penthouse	Good	127/130
Homogeneous Area #6										
Boiler 4	B-11	Concrete caulking ï black	N	ïï	N/A	PLM	ïï	SW Corner / 4 Penthouse	Good	88
Homogeneous Area #7										
Boiler 4	B-12	Asphalt roofing ï black	**P**	Chrysotile	NF	PLM	100 sf	SW Corner / 4 Penthouse	Damaged	89
Homogeneous Area #8										

RESULTS

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SAMPLE ID and ASBESTOS TYPE

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Boiler 4	SC	Boiler fan insulation	**P**	SC	ND	N/A	750 sf 350 sf	Boiler Fan #4 / Main-2	Good	73
Boiler 4	SC	Boiler fan insulation	**P**	SC	ND	N/A	450 sf 400 sf	Boiler Fan #4 / Basement	Good	77
Homogeneous Area #9										
Boiler 4	SC	Stack insulation	**P**	SC	ND	N/A	480 sf	North stack insulation / 2-3	Good	80
Homogeneous Area #10										
Boiler 4	SC	Boiler insulation	**P**	SC	ND	N/A	75 sf	North boiler insulation / 2	Good	80
Homogeneous Area #11										
Boiler 4	NWB-1A	Laminate flooring ï Tan	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(12)
Boiler 4	NWB-2A	Laminate flooring ï Tan	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(12)
Boiler 4	NWB-3A	Laminate flooring ï Tan	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(12)
Homogeneous Area #12										

RESULTS

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Boiler 4	NWB-1AM	Paper under laminate flooring ï Black	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(12)
Boiler 4	NWB-2AM	Paper under laminate flooring ï Black	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(12)
Boiler 4	NWB-3AM	Paper under laminate flooring ï Black	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(12)
Homogeneous Area #13										
Boiler 4	NWB-1B	Epoxy flooring ï Dark	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(13)
Boiler 4	NWB-2B	Epoxy flooring ï Dark	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(13)
Boiler 4	NWB-3B	Epoxy flooring ï Dark	N	ï ï	N/A	PLM	1500 sf	Northwest basement shop area	Good	(13)
Homogeneous Area #14										
New Side	NS-01	Boiler access door insulation	N	ï ï	N/A	PLM	14 doors	Inside Boiler #5 / Main	Significantly Damaged	3
New Side	NS-02	Boiler access door insulation	N	ï ï	N/A	PLM	14 doors	Inside Boiler #5 / Main	Significantly Damaged	3

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New Side	NS-03	Boiler access door insulation	N	ï ï	N/A	PLM	14 doors	Inside Boiler #5 / Main	Significantly Damaged	3
Homogeneous Area #15										
New Side	NS-04	Boiler mortar/brick	N	ï ï	N/A	PLM	ï ï	Inside Boiler #5 / Main	Significantly Damaged	4
New Side	NS-05	Boiler mortar/brick	N	ï ï	N/A	PLM	ï ï	Inside Boiler #5 / Main	Significantly Damaged	4
New Side	NS-06	Boiler mortar/brick	N	ï ï	N/A	PLM	ï ï	Inside Boiler #5 / Main	Significantly Damaged	4
Homogeneous Area #16										
New Side	NS-07	12òx12ò Floor tile ï White w/ colored specs	N	ï ï	N/A	PLM	80 sf	New Side Bathroom / Main	Good	9
New Side	NS-07	Mastic associated w/ white floor tile	N	ï ï	N/A	PLM	80 sf	New Side Bathroom / Main	Good	9
New Side	NS-08	12òx12ò Floor tile ï White w/ colored specs	N	ï ï	N/A	PLM	80 sf	New Side Bathroom / Main	Good	9
New Side	NS-08	Mastic associated w/ white floor tile	N	ï ï	N/A	PLM	80 sf	New Side Bathroom / Main	Good	9

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Naval Station Great Lakes
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New Side	NS-09	12òx12ò Floor tile ï White w/ colored specs	N	ï ï	N/A	PLM	80 sf	New Side Bathroom / Main	Good	9
New Side	NS-09	Mastic associated w/ white floor tile	N	ï ï	N/A	PLM	80 sf	New Side Bathroom / Main	Good	9
New Side	NS-18	12òx12ò Floor tile ï Gray	N	ï ï	N/A	PLM	250 sf	Electric Office / 2	Good	38
New Side	NS-19	Mastic associated w/ white floor tile	N	ï ï	N/A	PLM	250 sf	Electric Office / 2	Good	38
Homogeneous Area #17										
New Side	NS-10	Pipe insulation fitting	**P**	Chrysotile	F	PLM	1 fitting / 2ò	Pipe leading into Boiler #6 (east)	Good	14
New Side	NS-14	Pipe insulation fitting	**P**	Chrysotile	F	PLM	4 fittings / 6ò	West / Main	Good	22
New Side	NS-15	Pipe insulation fitting (steam supply)	**P**	Amosite	F	PLM	3 fittings / 2ò	West / Main	Good	23
New Side	NS-17	Pipe insulation fitting (L.P. Return)	**P**	Chrysotile / Amosite	F	PLM	4 fittings / 1ò	Basement	Good	25
New Side	NS-28	Pipe insulation fitting (Steam supply into header)	**P**	Chrysotile / Amosite	F	PLM	5 fittings / 12ò	ñNo 6 Boilerò / 3	Good	46

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New Side	NS-30	Pipe insulation fitting (Steam supply into header)	**P**	Chrysotile	F	PLM	5 fittings	ñNo 5 Boilerò / 4	Good	48
New Side	NS-32	Pipe insulation fitting (Boiler feed water)	**P**	Chrysotile	F	PLM	7 fittings / 6ò	ñTo Boilers 5 & 6ò / 4	Good	51
New Side	NS-34	Pipe insulation fitting (Feed water)	**P**	Chrysotile	F	PLM	12 fittings / 4ò	North pipe of Boiler #5 / 4	Good	54
New Side	NS-36	Pipe insulation fitting (ñ14ò)	**P**	Chrysotile	F	PLM	6 fittings / 1ò	South pipe / 4	Good	55
New Side	NS-38	Pipe insulation fitting (ñ14ò)	**P**	Chrysotile	F	PLM	6 fittings / 1ò	Center pipe / 4	Good	55
New Side	NS-40	Pipe insulation fitting (ñheaterò)	**P**	Chrysotile / Amosite	F	PLM	8 fittings / 1ò	South pipe / 4	Good	56
New Side	NS-42	Pipe insulation fitting (ñheaterò)	**P**	Chrysotile / Amosite	F	PLM	8 fittings / 1ò	Center pipe / 4	Good	56
New Side	NS-44	Pipe insulation fitting (ñ25Kò)	**P**	Chrysotile / Amosite	F	PLM	12 fittings / 6ò	NE / 5	Good	60
New Side	SC	Pipe insulation fitting (Pipe #29)	**P**	SC	ND	N/A	4 fittings / 6ò	Pipe off of #5 Header / 3	Good	44
Homogeneous Area #18										

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New Side	NS-16	Pipe insulation (L.P. Return)	**P**	Chrysotile / Amosite	F	PLM	55 lf / 1ò	West / Main-basement	Good	24
New Side	NS-27	Pipe insulation (Steam supply into header)	**P**	Chrysotile / Amosite	F	PLM	60 lf / 12ò	ñNo 6 Boilerò / 3	Good	45
New Side	NS-29	Pipe insulation (Steam supply into header)	**P**	Chrysotile / Amosite	F	PLM	60 lf / 12ò	ñNo 5 Boilerò / 4	Good	47
New Side	NS-31	Pipe insulation (Boiler feed water)	**P**	Chrysotile / Amosite	F	PLM	135 lf / 6ò	ñTo Boilers 5 & 6ò / 4	Good	50
New Side	NS-33	Pipe insulation (Feed water)	**P**	Amosite	F	PLM	70 lf / 4ò	North pipe of Boiler #5 / 4	Good	53
New Side	NS-35	Pipe insulation (ñ14ò)	**P**	Chrysotile	F	PLM	70 lf / 1ò	South pipe / 4	Good	55
New Side	NS-37	Pipe insulation (ñ14ò)	**P**	Chrysotile / Amosite	F	PLM	70 lf / 1ò	Center pipe / 4	Good	55
New Side	NS-39	Pipe insulation (ñheaterò)	**P**	Chrysotile / Amosite	F	PLM	80 lf / 1ò	South pipe / 4	Good	56
New Side	NS-41	Pipe insulation (ñheaterò)	**P**	Chrysotile / Amosite	F	PLM	80 lf / 1ò	Center pipe / 4	Good	56

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New Side	NS-43	Pipe insulation (ñ25Kò)	**P**	Chrysotile / Amosite	F	PLM	90 lf / 6ò	NE / 5	Good	59
New Side	SC	Pipe insulation	**P**	SC	ND	PLM	55 lf / 2 fittings / 3ò	North side / 2-4	Good	31
Homogeneous Area #19										
New Side	NS-24	Pipe insulation/fitting (No 9 B.F.W.P. 350 Supply)	**P**	Chrysotile / Amosite	F	PLM	~100 lf / 6 fittings / 4ò	Left pipe off Boiler #5 Header ñ28ò	Good	43
New Side	NS-25	Pipe insulation/fitting (No 9 B.F.W.P. 350 Supply)	**P**	Chrysotile / Amosite	F	PLM	~100 lf / 6 fittings / 4ò	Left pipe off Boiler #5 Header ñ28ò	Good	43
New Side	NS-26	Pipe insulation/fitting (No 9 B.F.W.P. 350 Supply)	**P**	Chrysotile / Amosite	F	PLM	~100 lf / 6 fittings / 4ò	Left pipe off Boiler #5 Header ñ28ò	Good	43
New Side	SC	Pipe insulation/fittings (Low pressure steam)	**P**	SC	ND	N/A	250 lf / 25 fittings / 6ò	Main / 2	Good	5
New Side	SC	Pipe insulation/fittings (Condensate)	**P**	SC	ND	N/A	200 lf / 15 fittings / 4ò	Main / 2	Good	6
New Side	SC	Pipe insulation/fittings (Low pressure steam)	**P**	SC	ND	N/A	60 lf / 5 fittings / 8ò	NE ï Main / 2	Good	7

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New Side	SC	Pipe insulation/fittings (High pressure steam)	**P**	SC	ND	N/A	100 lf / 6 fittings / 4ò	Main / 2	Good	8
New Side	SC	Pipe insulation/fittings (Boiler feed off pump)	**P**	SC	ND	N/A	40 lf / 5 fittings / 12ò	Main / 2	Good	10
New Side	SC	Pipe insulation/fittings (Small pipe off boiler feed)	**P**	SC	ND	N/A	40 lf / 15 fittings / 6ò	Main / 2	Good	11
New Side	SC	Pipe insulation/fittings (Feed into 2nd floor tank)	**P**	SC	ND	N/A	35 lf / 3 fittings / 12ò	Main / 2	Damaged	12
New Side	SC	Pipe insulation/fittings (Low pressure crossover)	**P**	SC	ND	N/A	120 lf / 8 fittings / 12ò	DA Tanks ï Main / 2	Good	13
New Side	SC	Pipe insulation/fittings (Small pipe over storage cage)	**P**	SC	ND	N/A	20 lf / 8 fittings / 1ò	Boiler #6 ï Main	Good	15
New Side	SC	Pipe insulation/fittings (HP Return)	**P**	SC	ND	N/A	130 lf / 20 fittings / 1ò	Between Boiler 5/6 ï Main / 2 / 3	Good	16
New Side	SC	Pipe insulation/fittings (Steam supply ï 125 psi) ï Turns into fiberglass	**P**	SC	ND	N/A	60 lf / 8 fittings / 4ò	Main / 2	Good	17

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New Side	SC	Pipe insulation/fittings (Large steam pipes)	**P**	SC	ND	N/A	4 pipes @ 15ôeach / 8 fittings	North end ï Boiler 5 / Main	Good	18
New Side	SC	Pipe insulation/fittings (3 lb supply)	**P**	SC	ND	N/A	60 lf / 15 fittings / 12ò	To heating coil ï Basement-3	Good	26
New Side	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	55 lf / 7 fittings / 2ò	North of New Side ï Main-3	Good	27
New Side	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	45 lf / 6 fittings / 3ò	Air handling chamber / Basement north	Good	28
New Side	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	70 lf / 20 fittings / 12ò	Runs into boiler / 2nd floor north / 3	Good	29
New Side	SC	Pipe insulation/fittings (40 DA Tank)	**P**	SC	ND	N/A	75 lf / 4 fittings / 12ò	North side / 2-3	Good	32
New Side	SC	Pipe insulation/fittings (ID Fan)	**P**	SC	ND	N/A	100 lf / 8 fittings / 4ò	North side #5 Boiler / 2-3	Good	33
New Side	SC	Pipe insulation/fittings (small line)	**P**	SC	ND	N/A	100 lf / 15 fittings / 1ò	Basement-3 (splits at 2)	Good	34

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New Side	SC	Pipe insulation/fittings (Steam supply 350 psi)	**P**	SC	ND	N/A	160 lf / 10 fittings / 12ò	NW corner off of header (To export line) / 2-4	Good	35
New Side	SC	Pipe insulation/fittings (Boiler #5 Header)	**P**	SC	ND	N/A	25 lf / 10 fittings / 24ò	Boiler #5 / 2	Damaged	36
New Side	SC	Pipe insulation/fittings (Atom. Steam #5 boiler)	**P**	SC	ND	N/A	90 lf / 10 fittings / 4ò	2	Good	37
New Side	SC	Pipe insulation/fittings (HP Return)	**P**	SC	ND	N/A	80 lf / 10 fittings / 1ò	Between #5/6 boilers / 2	Good	40
New Side	SC	Pipe insulation/fittings (Parallel to HP Return)	**P**	SC	ND	N/A	70 lf / 7 fittings / 1ò	Between #5/6 boilers / 2	Good	41
New Side	SC	Pipe insulation/fittings (3 lb steam supply)	**P**	SC	ND	N/A	120 lf / 7 fittings / 12ò	North-West ends / 4	Good	49
New Side	SC	Pipe insulation/fittings (3 lb steam supply)	**P**	SC	ND	N/A	50 lf / 7 fittings / 6ò	4	Good	52
New Side	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	25 lf / 6 fittings / 1ò	Top of Boiler #6 / 4	Good	57

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New Side	SC	Pipe insulation/fittings (Condensate water supply)	**P**	SC	ND	N/A	30 lf / 7 fittings / 6ò	East DA Tank / 5	Good	58
New Side	SC	Pipe insulation/fittings (Soot blower steam supply)	**P**	SC	ND	N/A	15 lf / 6 fittings / 4ò	5	Good	61
Homogeneous Area #20										
New Side	NS-11	2ôx4ô Ceiling tile ï White	N	ï ï	N/A	PLM	400 sf	Kitchen / Main	Damaged	19
New Side	NS-20	2ôx4ô Ceiling tile ï White	N	ï ï	N/A	PLM	400 sf	Electric Office / 2	Good	39
Homogeneous Area #21										
New Side	NS-12	Drywall ï White	N	ï ï	N/A	PLM	800 sf	Kitchen / Main	Good	20
New Side	NS-13	Drywall compound ï White	N	ï ï	N/A	PLM	800 sf	Kitchen / Main	Good	21
Homogeneous Area #22										
New Side	NS-21	Window glaze ï White	N	ï ï	N/A	PLM	~300 lf/window	SE Corner / 3	Significantly damaged	42

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New Side	NS-22	Window glaze ï White	**P**	Chrysotile	NF	PLM	~300 lf/window	SE Corner / 3	Significantly damaged	42
New Side	NS-23	Window glaze ï White	**P**	Chrysotile	NF	PLM	~300 lf/window	SE Corner / 3	Significantly damaged	42
Homogeneous Area #23										
New Side	NS-45	Boiler door gasket	**P**	Chrysotile	F	PLM	~14 lf	Boiler door	Damaged	62
Homogeneous Area #24										
New Side	NS-46	Component/Stack flashing - Black	N	ï ï	N/A	PLM	9 components/stacks	Roof	Good	63
New Side	NS-47	Component/Stack flashing - Black	N	ï ï	N/A	PLM	9 components/stacks	Roof	Good	63
New Side	NS-48	Component/Stack flashing - Black	N	ï ï	N/A	PLM	9 components/stacks	Roof	Good	63
Homogeneous Area #25										
New Side	NS-49	Boiler #6 Gasket ï Black	N	ï ï	N/A	PLM	30 lf	Boiler #6 / 4	Good	66
Homogeneous Area #26										

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New Side	NS-50	Boiler #5 Gasket / Rope material	**P**	Chrysotile	F	PLM	30 lf	Boiler #5 / 4	Damaged	68
Homogeneous Area #27										
New Side	SC	Duct insulation	**P**	SC	ND	N/A	480 cf 90 cf	East / 2	Good	30
Homogeneous Area #28										
New Side	SC	DA tank insulation	**P**	SC	ND	N/A	~ 1000 sf	East DA Tank / 4	Good	64
Homogeneous Area #29										
New Side	SC	Boiler insulation	**P**	SC	ND	N/A	460 sf	Boiler #6 upper insulation / 5	Damaged	65
New Side	SC	Boiler insulation	**P**	SC	ND	N/A	960 sf 200 sf	Boiler #6 lower insulation / 5	Damaged	65
New Side	SC	Boiler insulation	**P**	SC	ND	N/A	1,100 sf 660 sf 560 sf	Boiler #5 upper insulation / 3-5	Good	67
New Side	SC	Boiler insulation	**P**	SC	ND	N/A	1,200 sf	Boiler #5 upper insulation / 4	Good	69

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New Side	SC	Boiler insulation	**P**	SC	ND	N/A	1.200 sf	Boiler #5 center insulation / 3	Good	72
Homogeneous Area #30										
New Side	SC	Duct insulation	**P**	SC	ND	N/A	100 sf	North side ï Boiler #5 / 3	Good	71
Homogeneous Area #31										
New Side	SC	Flash tank insulation	**P**	SC	ND	N/A	100 sf	From Boilers 5 and 6 / 3	Good	70
Homogeneous Area #32										
New Side	SC	Duct silo insulation	**P**	SC	ND	N/A	250 sf	Boiler #5 / 2	Good	72
Homogeneous Area #33										
Go-Gen	CG-1	Pipe insulation/fitting	N	ï ï	N/A	PLM	35 lf / 6 fittings / 4ò	West room ï Lower Level (LL)	Good	91/92
Homogeneous Area #34										
Go-Gen	CG-2	Pipe insulation fitting	N	ï ï	N/A	PLM	12 fittings / 2ò	North side (LL)	Good	93
Go-Gen	CG-4	Pipe insulation fitting (Hi pressure nat gas)	N	ï ï	N/A	PLM	18 fittings / 4ò	LL	Good	95

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Great Lakes, Illinois

Section	Sample ID	Sampled Material Description	Results (P or N)	Asbestos Type	Friability	Test Method PLM, PLM Point Count, or TEM	Approximate Quantity / Pipe Diameter square feet (sf) linear feet (lf)	Functional Area / Floor(s)	Condition	Photo #
Go-Gen	CG-6	Pipe insulation fitting ï ñ125 # steamò	N	ï ï	N/A	PLM	30 lf / 4ò	UP (West wall)	Good	96/97
Go-Gen	CG-8	Pipe insulation fitting ï ñAmmonia vaporò	N	ï ï	N/A	PLM	20 fittings / 4ò	UP	Good	99
Go-Gen	CG-10	Pipe insulation fitting (Boiler feed water)	N	ï ï	N/A	PLM	40 fittings / 4ò	UP ï South Gen, East end	Good	101
Go-Gen	CG-12	Pipe insulation fitting ï ñBoiler Down Comerò	N	ï ï	N/A	PLM	5 fittings / 10ò	UP	Good	103
Homogeneous Area #35										
Go-Gen	CG-3	Pipe insulation	N	ï ï	N/A	PLM	35 lf x 2 / 2ò	North side (LL)	Good	94
Go-Gen	CG-5	Pipe insulation ï ñ125 # steamò	N	ï ï	N/A	PLM	50 lf x 2 / 4ò	Upper level (UP)	Good	96/97
Go-Gen	CG-7	Pipe insulation ï ñAmmonia vaporò	N	ï ï	N/A	PLM	150 lf / 4ò	UP	Good	98
Go-Gen	CG-9	Pipe insulation (Boiler feed water)	N	ï ï	N/A	PLM	110 lf / 4ò	UP ï South Gen, East end	Good	100
Go-Gen	CG-11	Pipe insulation ï ñBoiler Down Comerò	N	ï ï	N/A	PLM	40 lf / 10ò	UP	Good	102
Homogeneous Area #36										

RESULTS

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Old Side	OS-01	Pipe insulation fitting	**P**	Chrysotile	F	PLM	2 fittings / 6ò	SE section of Old Side near entrance top of ramp / Main	Good	114
Old Side	OS-04	Pipe insulation fitting ï ñTrasar #4ò	N	ï ï	N/A	PLM	10 fittings / 1ò	East cat walk / 2	Good	117
Homogeneous Area #37										
Old Side	OS-02	Pipe insulation	**P**	Amosite	F	PLM	20 lf / 6ò	SE section of Old Side near entrance top of ramp / Main	Good	115
Old Side	OS-03	Pipe insulation ï ñTrasar #4ò	N	ï ï	N/A	PLM	75 lf / 1ò	East cat walk / 2	Good	116
Homogeneous Area #38										
Old Side	SC	Pipe insulation/fittings (North/South Export Line)	**P**	SC	ND	N/A	30 lf / 6 fittings / 6ò	2 parallel pipes (South of tanks-upper) / Main	Good	105/106
Old Side	SC	Pipe insulation/fittings (ñ3ò)	**P**	SC	ND	N/A	25 lf / 6 fittings / 4ò	Next to Old Side entrance / Main	Good	107/108
Old Side	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	35 lf / 6 fittings / 3ò	Above control office / Main	Good	109

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Old Side	SC	Pipe insulation/fittings (Low press. Condenser DA)	**P**	SC	ND	N/A	30 lf / 3 fittings / 6ò	Walkway south of office / Main	Good	110/111
Old Side	SC	Pipe insulation/fittings (Boiler feed water to Boiler 5/6)	**P**	SC	ND	N/A	30 lf / 12 fittings / 4ò	East side of Control Office / Main	Good	112
Old Side	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	10 lf / 4 fittings / 4ò	SE section of Old Side / Main	Good	113
Old Side	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	40 lf / 4 fittings / 5ò	East end near wall ï Upper / Main	Good	118
Homogeneous Area #39										
Old Side	SC	Condensate tank insulation	**P**	SC	ND	N/A	600 sf	West condensate tank ñ3ò / Main	Good	104
Homogeneous Area #40										
Engine Room	ER-01	Felt paper ï Black	N	ï ï	N/A	PLM	~400 sf	North basement on ceiling	Damaged	126
Engine Room	ER-02	Felt paper ï Black	N	ï ï	N/A	PLM	~400 sf	North basement on ceiling	Damaged	126
Engine Room	ER-03	Felt paper ï Black	N	ï ï	N/A	PLM	~400 sf	North basement on ceiling	Damaged	126

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Homogeneous Area #41										
Engine Room	SC	Pipe insulation fittings	**P**	SC	ND	N/A	6 fittings / 1ò	Conference Room #202 ï Above ceiling cavity / 2	Good	119
Homogeneous Area #42										
Engine Room	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	70 lf x 2 / 6 fittings / 6ò	Near vending into Engine Room (near ceiling) / Main	Good	120/121
Engine Room	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	15 lf x 2 / 6 fittings / 6ò	Engine Room (Ceiling) / South Basement	Good	122
Engine Room	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	150 lf / 50 fittings / 2ò	Engine Room South (Near ceiling and over stairway entrance) / South basement	Good	123
Engine Room	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	60 lf / 15 fittings / 2ò	Engine Room south ï Near east ext wall / Basement south	Good	124/125
Homogeneous Area #43										
Engine Room	SW1-1C	2ôx4ô Ceiling Tile ï White	N	ï ï	N/A	PLM	400 sf	1st Floor ï Generator Area (Swan office)	Good	(3)

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Engine Room	SW1-2C	2ôx4ô Ceiling Tile ï White	N	ïï	N/A	PLM	400 sf	1st Floor ï Generator Area (Swan office)	Good	(3)
Engine Room	SW1-3C	2ôx4ô Ceiling Tile ï White	N	ïï	N/A	PLM	400 sf	1st Floor ï Generator Area (Swan office)	Good	(3)
Homogeneous Area #44										
Engine Room	SW1-1BT	12òx12ò Floor tile ï Gray w/ gray specs	N	ïï	N/A	PLM, TEM	100 sf	1st Floor ï Generator area (Bottom of stairway)	Good	(2)
Engine Room	SW1-1BT	12òx12ò Floor tile ï Gray w/ gray specs	N	ïï	N/A	PLM, TEM	100 sf	1st Floor ï Generator area (Bottom of stairway)	Good	(2)
Engine Room	SW1-1BT	12òx12ò Floor tile ï Gray w/ gray specs	N	ïï	N/A	PLM, TEM	100 sf	1st Floor ï Generator area (Bottom of stairway)	Good	(2)
Engine Room	SW1-1BM	Black mastic assoc w/ gray floor tiles	N	ïï	N/A	PLM, TEM	100 sf	1st Floor ï Generator area (Bottom of stairway)	Good	(2)
Engine Room	SW1-1BM	Black mastic assoc w/ gray floor tiles	N	ïï	N/A	PLM, TEM	100 sf	1st Floor ï Generator area (Bottom of stairway)	Good	(2)

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Engine Room	SW1-1BM	Black mastic assoc w/ gray floor tiles	N	ï ï	N/A	PLM, TEM	100 sf	1st Floor ï Generator area (Bottom of stairway)	Good	(2)
Homogeneous Area #45										
Engine Room	SW1-1ET	12òx12ò Floor tile ï Tan w/ small squares	N	ï ï	N/A	PLM, TEM	300 sf	1st Floor generator area ï Control room	Good	(5)
Engine Room	SW1-2ET	12òx12ò Floor tile ï Tan w/ small squares	N	ï ï	N/A	PLM, TEM	300 sf	1st Floor generator area ï Control room	Good	(5)
Engine Room	SW1-3ET	12òx12ò Floor tile ï Tan w/ small squares	N	ï ï	N/A	PLM, TEM	300 sf	1st Floor generator area ï Control room	Good	(5)
Engine Room	SW1-1EM	Black mastic assoc w/ tan floor tiles	N	ï ï	N/A	PLM, TEM	300 sf	1st Floor generator area ï Control room	Good	(5)
Engine Room	SW1-2EM	Black mastic assoc w/ tan floor tiles	N	ï ï	N/A	PLM, TEM	300 sf	1st Floor generator area ï Control room	Good	(5)
Engine Room	SW1-3EM	Black mastic assoc w/ tan floor tiles	N	ï ï	N/A	PLM, TEM	300 sf	1st Floor generator area ï Control room	Good	(5)
Homogeneous Area #46										
Engine Room	OFF3-1AT	12òx12ò Floor tile ï White w/ maroon streaks	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(19)
Engine Room	OFF3-2AT	12òx12ò Floor tile ï White w/ maroon streaks	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(19)

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Engine Room	OFF3-3AT	12òx12ò Floor tile ï White w/ maroon streaks	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(19)
Engine Room	OFF3-1AM	Black mastic assoc w/ white and maroon tiles	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(19)
Engine Room	OFF3-2AM	Black mastic assoc w/ white and maroon tiles	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(19)
Engine Room	OFF3-3AM	Black mastic assoc w/ white and maroon tiles	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(19)
Homogeneous Area #47										
Engine Room	OFF3-1BT	12òx12ò Floor tile ï Green	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(20)
Engine Room	OFF3-2BT	12òx12ò Floor tile ï Green	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(20)
Engine Room	OFF3-3BT	12òx12ò Floor tile ï Green	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(20)
Engine Room	OFF3-1BM	Black mastic assoc w/ green floor tiles	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(20)
Engine Room	OFF3-2BM	Black mastic assoc w/ green floor tiles	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(20)
Engine Room	OFF3-3BM	Black mastic assoc w/ green floor tiles	**P**	Chrysotile	NF	PLM	200 sf	3rd Floor office area	Good	(20)

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Homogeneous Area #48										
Engine Room	OFF3-1CT	12òx12ò Floor tile ï Brown w/ brown streaks	N	ï ï	N/A	PLM, TEM	200 sf	3rd Floor office area	Good	(21)
Engine Room	OFF3-2CT	12òx12ò Floor tile ï Brown w/ brown streaks	N	ï ï	N/A	PLM, TEM	200 sf	3rd Floor office area	Good	(21)
Engine Room	OFF3-3CT	12òx12ò Floor tile ï Brown w/ brown streaks	N	ï ï	N/A	PLM, TEM	200 sf	3rd Floor office area	Good	(21)
Engine Room	OFF3-1CM	Black mastic assoc w/ brown floor tiles	N	ï ï	N/A	PLM, TEM	200 sf	3rd Floor office area	Good	(21)
Engine Room	OFF3-2CM	Black mastic assoc w/ brown floor tiles	N	ï ï	N/A	PLM, TEM	200 sf	3rd Floor office area	Good	(21)
Engine Room	OFF3-3CM	Black mastic assoc w/ brown floor tiles	N	ï ï	N/A	PLM, TEM	200 sf	3rd Floor office area	Good	(21)
Homogeneous Area #49										
Engine Room	OFF3-1D	Laminate material ï Brown	N	ï ï	N/A	PLM	600 sf	3rd Floor office area ï Under floor tile	Good	(21)
Engine Room	OFF3-2D	Laminate material ï Brown	N	ï ï	N/A	PLM	600 sf	3rd Floor office area ï Under floor tile	Good	(21)
Engine Room	OFF3-3D	Laminate material ï Brown	N	ï ï	N/A	PLM	600 sf	3rd Floor office area ï Under floor tile	Good	(21)

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Homogeneous Area #50										
Engine Room	OFF3-1ET	12òx12ò Floor tile ï Gray	N	ï ï	N/A	PLM, TEM	1,500 sf	3rd Floor machine shop	Good	ï ï
Engine Room	OFF3-2ET	12òx12ò Floor tile ï Gray	N	ï ï	N/A	PLM, TEM	1,500 sf	3rd Floor machine shop	Good	ï ï
Engine Room	OFF3-3ET	12òx12ò Floor tile ï Gray	N	ï ï	N/A	PLM, TEM	1,500 sf	3rd Floor machine shop	Good	ï ï
Engine Room	OFF3-1EM	Black mastic assoc w/ gray floor tiles	N	ï ï	N/A	PLM, TEM	1,500 sf	3rd Floor machine shop	Good	ï ï
Engine Room	OFF3-2EM	Black mastic assoc w/ gray floor tiles	N	ï ï	N/A	PLM, TEM	1,500 sf	3rd Floor machine shop	Good	ï ï
Engine Room	OFF3-3EM	Black mastic assoc w/ gray floor tiles	N	ï ï	N/A	PLM, TEM	1,500 sf	3rd Floor machine shop	Good	ï ï
Homogeneous Area #51										
Engine Room	OFF3-1FT	12òx12ò Floor tile ï Beige w/ green specs	N	ï ï	N/A	PLM, TEM	500 sf	3rd Floor office area ï Room 305	Good	(22)
Engine Room	OFF3-2FT	12òx12ò Floor tile ï Beige w/ green specs	N	ï ï	N/A	PLM, TEM	500 sf	3rd Floor office area ï Room 305	Good	(22)
Engine Room	OFF3-3FT	12òx12ò Floor tile ï Beige w/ green specs	N	ï ï	N/A	PLM, TEM	500 sf	3rd Floor office area ï Room 305	Good	(22)

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Engine Room	OFF3-1FM	Black mastic assoc w/ beige and green floor tiles	N	ï ï	N/A	PLM, TEM	500 sf	3rd Floor office area ï Room 305	Good	(22)
Engine Room	OFF3-2FM	Black mastic assoc w/ beige and green floor tiles	N	ï ï	N/A	PLM, TEM	500 sf	3rd Floor office area ï Room 305	Good	(22)
Engine Room	OFF3-3FM	Black mastic assoc w/ beige and green floor tiles	N	ï ï	N/A	PLM, TEM	500 sf	3rd Floor office area ï Room 305	Good	(22)
Homogeneous Area #52										
Engine Room	OFF2-1A	Pipe insulation	**P**	Chrysotile	F	PLM	20 lf	2nd Floor ï Conference Room 202	Good	(23)
Engine Room	OFF2-1A	Pipe insulation	**P**	Chrysotile	F	PLM	20 lf	2nd Floor ï Conference Room 202	Good	(23)
Engine Room	OFF2-1A	Pipe insulation	**P**	Chrysotile	F	PLM	20 lf	2nd Floor ï Conference Room 202	Good	(23)
Homogeneous Area #53										
Engine Room	OFF2-1BT	12òx12ò Floor tile ï Beige w/ black spots	N	ï ï	N/A	PLM, TEM	400 sf	2nd Floor office area	Good	ï ï
Engine Room	OFF2-2BT	12òx12ò Floor tile ï Beige w/ black spots	N	ï ï	N/A	PLM, TEM	400 sf	2nd Floor office area	Good	ï ï
Engine Room	OFF2-3BT	12òx12ò Floor tile ï Beige w/ black spots	N	ï ï	N/A	PLM, TEM	400 sf	2nd Floor office area	Good	ï ï

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Engine Room	OFF2-1BM	Black mastic assoc w/ beige and black floor tiles	N	ï ï	N/A	PLM, TEM	400 sf	2nd Floor office area	Good	ï ï
Engine Room	OFF2-2BM	Black mastic assoc w/ beige and black floor tiles	N	ï ï	N/A	PLM, TEM	400 sf	2nd Floor office area	Good	ï ï
Engine Room	OFF2-3BM	Black mastic assoc w/ beige and black floor tiles	N	ï ï	N/A	PLM, TEM	400 sf	2nd Floor office area	Good	ï ï
Homogeneous Area #54										
Engine Room	SW1-1D	Window glaze	N	ï ï	N/A	PLM, PLM Point count	4 Windows	1st Floor ï Generator area	Significantly Damaged	ï ï
Engine Room	SW1-2D	Window glaze	N	ï ï	N/A	PLM, PLM Point count	4 Windows	1st Floor ï Generator area	Significantly Damaged	ï ï
Engine Room	SW1-3D	Window glaze	N	ï ï	N/A	PLM, PLM Point count	4 Windows	1st Floor ï Generator area	Significantly Damaged	ï ï
Homogeneous Area #55										
Exterior	EX-01	Wall flashing material ï Black	N	ï ï	N/A	PLM	200 sf	North exterior ï Outside Boiler 5/6 / Main	Damaged	131

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ND: Not Determined (Sampled by Others)

N/A: Not Applicable (Not ACM)

CONDITION

Good: Little to no damage

Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area

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Table I

Asbestos Survey Results

P816 Phase V ï Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sample ID	Sampled Material Description	Results (P or N)	Asbestos Type	Friability	Test Method PLM, PLM Point Count, or TEM	Approximate Quantity / Pipe Diameter square feet (sf) linear feet (lf)	Functional Area / Floor(s)	Condition	Photo #
Exterior	EX-02	Wall flashing material ï Black	N	ï ï	N/A	PLM	200 sf	North exterior ï Outside Boiler 5/6 / Main	Damaged	131
Exterior	EX-03	Wall flashing material ï Black	N	ï ï	N/A	PLM	200 sf	North exterior ï Outside Boiler 5/6 / Main	Damaged	131
Homogeneous Area #56										
Exterior	EX-04	Window caulking ï White	N	ï ï	N/A	PLM	2 large black windows	Exterior windows ï Near main entrance	Damaged	132
Exterior	EX-04	Window caulking ï White	N	ï ï	N/A	PLM Point Count	2 large black windows	Exterior windows ï Near main entrance	Damaged	132
Exterior	EX-05	Window caulking ï White	N	ï ï	N/A	PLM	2 large black windows	Exterior windows ï Near main entrance	Damaged	132
Exterior	EX-05	Window caulking ï White	N	ï ï	N/A	PLM Point Count	2 large black windows	Exterior windows ï Near main entrance	Damaged	132
Exterior	EX-06	Window caulking ï White	N	ï ï	N/A	PLM	2 large black windows	Exterior windows ï Near main entrance	Damaged	132
Exterior	EX-06	Window caulking ï White	N	ï ï	N/A	PLM Point Count	2 large black windows	Exterior windows ï Near main entrance	Damaged	132

RESULTS

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N: Negative = Non Asbestos-containing Material

SAMPLE ID and ASBESTOS TYPE

SC: See Cape Report (Attached)

ñ( )ò Indicates Photo # from March 2011 Survey Report

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Naval Station Great Lakes
Great Lakes, Illinois

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Homogeneous Area #57										
Exterior	EX-07	Roofing field ï Black	**P**	Chrysotile	F	PLM	100 sf	Roof over east main entrance to Old Side	Damaged	133
Exterior	EX-08	Roofing field ï Black	**P**	Chrysotile	F	PLM	100 sf	Roof over east main entrance to Old Side	Damaged	133
Exterior	EX-09	Roofing field ï Black	**P**	Chrysotile	F	PLM	100 sf	Roof over east main entrance to Old Side	Damaged	133
Homogeneous Area #58										
Exterior	EX-10	Roofing flashing	N	ï ï	N/A	PLM	400 sf	SE corner of Building 11 (Ground level)	Good	134
Exterior	EX-11	Roofing flashing	N	ï ï	N/A	PLM	400 sf	SE corner of Building 11 (Ground level)	Good	134
Exterior	EX-12	Roofing flashing	N	ï ï	N/A	PLM	400 sf	SE corner of Building 11 (Ground level)	Good	134
Homogeneous Area #59										
Exterior	EX-13	Roofing felt paper ï Black	N	ï ï	N/A	PLM	400 sf	SE corner of Building 11 (Ground level) ï Behind flashing	Good	135

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Asbestos Survey Results

P816 Phase V ï Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sample ID	Sampled Material Description	Results (P or N)	Asbestos Type	Friability	Test Method PLM, PLM Point Count, or TEM	Approximate Quantity / Pipe Diameter square feet (sf) linear feet (lf)	Functional Area / Floor(s)	Condition	Photo #
Exterior	EX-14	Roofing felt paper ï Black	N	ï ï	N/A	PLM	400 sf	SE corner of Building 11 (Ground level) ï Behind flashing	Good	135
Exterior	EX-15	Roofing felt paper ï Black	N	ï ï	N/A	PLM	400 sf	SE corner of Building 11 (Ground level) ï Behind flashing	Good	135
Homogeneous Area #60										
Exterior	EX-16	Window Glaze ï White	**P**	Chrysotile	NF	PLM	24 lf	Above 3rd floor office space (East window)	Damaged	137
Exterior	EX-16	Window Glaze ï White	**P**	Chrysotile	NF	PLM Point Count	24 lf	Above 3rd floor office space (East window)	Damaged	137
Exterior	EX-17	Window Glaze ï White	**P**	Chrysotile	NF	PLM	24 lf	Above 3rd floor office space (East window)	Damaged	137
Exterior	EX-17	Window Glaze ï White	**P**	Chrysotile	NF	PLM Point Count	24 lf	Above 3rd floor office space (East window)	Damaged	137
Exterior	EX-18	Window Glaze ï White	**P**	Chrysotile	NF	PLM	24 lf	Above 3rd floor office space (East window)	Damaged	137
Exterior	EX-18	Window Glaze ï White	**P**	Chrysotile	NF	PLM Point Count	24 lf	Above 3rd floor office space (East window)	Damaged	137

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SAMPLE ID and ASBESTOS TYPE

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Naval Station Great Lakes
Great Lakes, Illinois

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Homogeneous Area #61										
Exterior	EX-19	Pipe insulation fitting	N	ï ï	N/A	PLM	5 fittings / 1ò	Roof access ï West room	Damaged	138
Homogeneous Area #62										
Exterior	SC	Pipe insulation/fittings	**P**	SC	ND	N/A	60 lf / 15 fittings / 2ò	2 pipes outside ï Out of west side of Engine Room (Runs into ext. steam lines)	Damaged	136
Homogeneous Area #63										
Exterior	EX-20	Wall cavity insulation ï Gray	N	ï ï	N/A	PLM	2 buildings	Roof buildings	Good	139/140
Exterior	EX-21	Wall cavity insulation ï Gray	N	ï ï	N/A	PLM	2 buildings	Roof buildings	Good	139/140
Exterior	EX-22	Wall cavity insulation ï Gray	N	ï ï	N/A	PLM	2 buildings	Roof buildings	Good	139/140
Homogeneous Area #64										
Exterior	ROOF-1A	Asphalt roof decking ï Gray/black	N	ï ï	N/A	PLM	4,000 sf	Roof	Good	(24)
Exterior	ROOF-2A	Asphalt roof decking ï Gray/black	N	ï ï	N/A	PLM	4,000 sf	Roof	Good	(24)

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SAMPLE ID and ASBESTOS TYPE

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Asbestos Survey Results

P816 Phase V ï Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
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Section	Sample ID	Sampled Material Description	Results (P or N)	Asbestos Type	Friability	Test Method PLM, PLM Point Count, or TEM	Approximate Quantity / Pipe Diameter square feet (sf) linear feet (lf)	Functional Area / Floor(s)	Condition	Photo #
Exterior	ROOF-3A	Asphalt roof decking ï Gray/black	N	ïï	N/A	PLM	4,000 sf	Roof	Good	(24)
Homogeneous Area #65										
Exterior	ROOF-1B	Roof flashing ï Black	N	ïï	N/A	PLM	3,000 sf	Roof	Good	(25)
Exterior	ROOF-2B	Roof flashing ï Black	N	ïï	N/A	PLM	3,000 sf	Roof	Good	(25)
Exterior	ROOF-3B	Roof flashing ï Black	N	ïï	N/A	PLM	3,000 sf	Roof	Good	(25)
Homogeneous Area #66										
Exterior	ROOF-1C	Gravel roof decking ï Black	N	ïï	N/A	PLM	3,000 sf	Roof	Good	(26)
Exterior	ROOF-1C	Gravel roof decking ï Black	N	ïï	N/A	PLM	3,000 sf	Roof	Good	(26)
Exterior	ROOF-1C	Gravel roof decking ï Black	N	ïï	N/A	PLM	3,000 sf	Roof	Good	(26)

RESULTS

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SAMPLE ID and ASBESTOS TYPE

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Table II

Summary of Asbestos Survey Results

P816 Phase Vð Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sampled Material Description	Results (P or N)	Asbestos Type	Test Method PLM, PLM Point Count, or TEM
Homogeneous Area #1				
Boiler 4	Boiler mortar/brick	N	ï ï	PLM
Homogeneous Area #2				
Boiler 4	Boiler access door insulation	N	ï ï	PLM
Homogeneous Area #3				
Boiler 4	Pipe insulation	P	SC	N/A
Homogeneous Area #4				
Boiler 4	Pipe insulation fittings	P	SC	N/A
Homogeneous Area #5				
Boiler 4	Pipe insulation/Fittings	P	SC	N/A
Homogeneous Area #6				
Boiler 4	Concrete caulking	N	ï ï	PLM
Homogeneous Area #7				
Boiler 4	Asphalt roofing	**P**	Chrysotile	PLM
Homogeneous Area #8				
Boiler 4	Boiler fan insulation	**P**	SC	N/A
Homogeneous Area #9				
Boiler 4	Stack insulation	**P**	SC	N/A
Homogeneous Area #10				
Boiler 4	Boiler insulation	**P**	SC	N/A
Homogeneous Area #11				
Boiler 4	Laminate flooring	N	ï ï	PLM
Homogeneous Area #12				
Boiler 4	Paper under laminate flooring ï Black	N	ï ï	PLM
Homogeneous Area #13				

RESULTS	**ASBESTOS TYPE**
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P816 Phase Vð Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sampled Material Description	Results (P or N)	Asbestos Type	Test Method PLM, PLM Point Count, or TEM
Boiler 4	Epoxy flooring	N	ï ï	PLM
Homogeneous Area #14				
New Side	Boiler access door insulation	N	ï ï	PLM
Homogeneous Area #15				
New Side	Boiler mortar/brick	N	ï ï	PLM
Homogeneous Area #16				
New Side	12òx12ò White floor tile w/ black mastic	N	ï ï	PLM
Homogeneous Area #17				
New Side	Pipe insulation fittings	**P**	Chrysotile/ Amosite	PLM
Homogeneous Area #18				
New Side	Pipe insulation	**P**	Chrysotile/ Amosite	PLM
Homogeneous Area #19				
New Side	Pipe insulation/Fittings	**P**	Chrysotile/ Amosite	PLM
Homogeneous Area #20				
New Side	2ôx4ô Ceiling tile	N	ï ï	PLM
Homogeneous Area #21				
New Side	Drywall/Drywall compound	N	ï ï	PLM
Homogeneous Area #22				
New Side	Window glaze	**P**	Chrysotile	PLM
Homogeneous Area #23				
New Side	Boiler door gasket	**P**	Chrysotile	PLM
Homogeneous Area #24				
New Side	Component/Stack flashing ï Black	N	ï ï	PLM

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Summary of Asbestos Survey Results

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Naval Station Great Lakes
Great Lakes, Illinois

Section	Sampled Material Description	Results (P or N)	Asbestos Type	Test Method PLM, PLM Point Count, or TEM
Homogeneous Area #25				
New Side	Boiler #6 Gasket ï Black	N	ï ï	PLM
Homogeneous Area #26				
New Side	Boiler #5 Gasket / Rope material	**P**	Chrysotile	PLM
Homogeneous Area #27				
New Side	Duct insulation	**P**	SC	N/A
Homogeneous Area #28				
New Side	DA Tank insulation	**P**	SC	N/A
Homogeneous Area #29				
New Side	Boiler insulation	**P**	SC	N/A
Homogeneous Area #30				
New Side	Duct insulation	**P**	SC	N/A
Homogeneous Area #31				
New Side	Flash tank insulation	**P**	SC	N/A
Homogeneous Area #32				
New Side	Duct silo insulation	**P**	SC	N/A
Homogeneous Area #33				
Co-Gen	Pipe insulation/Fittings	N	ï ï	PLM
Homogeneous Area #34				
Co-Gen	Pipe insulation fittings	N	ï ï	PLM
Homogeneous Area #35				
Co-Gen	Pipe insulation	N	ï ï	PLM
Homogeneous Area #36				
Old Side	Pipe insulation fittings	**P**	Chrysotile	PLM

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Table II

Summary of Asbestos Survey Results

P816 Phase Vð Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sampled Material Description	Results (P or N)	Asbestos Type	Test Method PLM, PLM Point Count, or TEM
Homogeneous Area #37				
Old Side	Pipe insulation	**P**	Amosite	PLM
Homogeneous Area #38				
Old Side	Pipe insulation/Fittings	**P**	SC	N/A
Homogeneous Area #39				
Old Side	Condensate tank insulation	**P**	SC	N/A
Homogeneous Area #40				
Engine Room	Felt paper ï Black	N	ï ï	PLM
Homogeneous Area #41				
Engine Room	Pipe insulation fittings	**P**	SC	N/A
Homogeneous Area #42				
Engine Room	Pipe insulation/Fittings	**P**	SC	N/A
Homogeneous Area #43				
Engine Room	2ôx4 Ceiling tile	N	ï ï	PLM
Homogeneous Area #44				
Engine Room	12òx12ò Gray floor tile w/ black mastic	N	ï ï	PLM, TEM
Homogeneous Area #45				
Engine Room	12òx12ò Tan floor tile w/ black mastic	N	ï ï	PLM, TEM
Homogeneous Area #46				
Engine Room	12òx12ò White/maroon streaks floor tile w/ black mastic	**P**	Chrysotile	PLM
Homogeneous Area #47				
Engine Room	12òx12ò Green floor tile w/ black mastic	**P**	Chrysotile	PLM

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Table II

Summary of Asbestos Survey Results

P816 Phase Vð Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sampled Material Description	Results (P or N)	Asbestos Type	Test Method PLM, PLM Point Count, or TEM
Homogeneous Area #48				
Engine Room	12òx12ò Brown/brown streaks floor tile w/ black mastic	N	ï ï	PLM, TEM
Homogeneous Area #49				
Engine Room	Laminate material ï Brown	N	ï ï	PLM
Homogeneous Area #50				
Engine Room	12òx12ò Gray floor tile w/ black mastic	N	ï ï	PLM, TEM
Homogeneous Area #51				
Engine Room	12òx12ò Beige/green specs floor tile w/ black mastic	N	ï ï	PLM, TEM
Homogeneous Area #52				
Engine Room	Pipe insulation	**P**	Chrysotile	PLM
Homogeneous Area #53				
Engine Room	12òx12ò Beige/black spots floor tile w/ black mastic	N	ï ï	PLM, TEM
Homogeneous Area #54				
Engine Room	Window glaze	N	ï ï	PLM, PLM Point count
Homogeneous Area #55				
Exterior	Wall flashing material ï Black	N	ï ï	PLM
Homogeneous Area #56				
Exterior	Window caulking	N	ï ï	PLM
Homogeneous Area #57				
Exterior	Roofing field ï Black	**P**	Chrysotile	PLM

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Summary of Asbestos Survey Results

P816 Phase Vð Building 11 Environmental Survey ï Amended
Naval Station Great Lakes
Great Lakes, Illinois

Section	Sampled Material Description	Results (P or N)	Asbestos Type	Test Method PLM, PLM Point Count, or TEM
Homogeneous Area #58				
Exterior	Roofing flashing ï Black	N	ï ï	PLM
Homogeneous Area #59				
Exterior	Roofing felt paper ï Black	N	ï ï	PLM
Homogeneous Area #60				
Exterior	Window glaze	N	ï ï	PLM
Homogeneous Area #61				
Exterior	Pipe insulation fittings	N	ï ï	PLM
Homogeneous Area #62				
Exterior	Pipe insulation/Fittings	**P**	SC	N/A
Homogeneous Area #63				
Exterior	Wall cavity insulation ï Gray	N	ï ï	PLM
Homogeneous Area #64				
Exterior	Asphalt roof decking ï Gray/Black	N	ï ï	PLM
Homogeneous Area #65				
Exterior	Roof flashing ï Black	N	ï ï	PLM
Homogeneous Area #66				
Exterior	Gravel roof decking ï Black	N	ï ï	PLM

RESULTS	**ASBESTOS TYPE**
P: Positive = Asbestos-containing Material N: Negative = Non Asbestos-containing Material	SC: See Cape Report (Attached)

Attachment B

Lead-Based Paint Sample Summary Tables

Lead-Based Paint Testing Results

Results Key		
P=Positive	N=Negative	A=Assumed

HUD Guidelines for Paint Film Quality

	Total area of deteriorated paint on each component		
Type of building component	**Intact**	**Fair**	**Poor**
Exterior components with large surface areas	Entire surface is intact	Less than or equal to 10 ft^2	More than 10 ft^2
Interior components with large surface areas (walls, ceilings, floors, doors)	Entire surface is intact	Less than or equal to 2 ft^2	More than 2 ft^2
Interior and exterior components with small surface areas (window sills, baseboards, soffits, and trim)	Entire surface is intact	Less than or equal to 10% of the total surface area of the component	More than 10% of the total surface of the component

Lead-Based Paint Sample Summary Table

P816 Phase V--Building 11
Naval Station great Lakes
Great Lakes, Illinois

Section	Sample ID	Substrate Sampled	Functional Area	Results	Paint Color	Approximate Quantity square feet (s.f.)	Condition
Southwest Section of 1st Floor	SW1-Pb1	Wall	1st Floor – Generator area (Photo 1)	**P**	Tan	1,600 sf	Intact
Southwest Section of 1st Floor	SW1-Pb2	Wall	1st Floor – Generator area (Photo 2)	N	White	—	Intact
Southwest Section of 1st Floor	SW1-Pb3	Stair rail	1st Floor – Generator area (Photo 3)	**P**	Yellow	200 lf	Fair
Southwest Section of 1st Floor	SW1-Pb4	Pillar	1st Floor – Generator area (Photo 4)	**P**	Green	600 lf	Fair
Northwest Section of 1st Floor	NW1-Pb1	Wall	1st Floor – Surge tank area (Photo 5)	**P**	Silver	2,000 sf	Fair
Northwest Section of 1st Floor	NW1-Pb2	Rail	1st Floor – Surge tank area (Photo 6)	**P**	Yellow	300 lf	Fair
Northwest Section of 1st Floor	NW1-Pb3	Floor	1st Floor – Surge tank area (Photo 7)	N	Red	—	Fair

Lead-Based Paint Sample Summary Table

P816 Phase V--Building 11
Naval Station great Lakes
Great Lakes, Illinois

Section	Sample ID	Substrate Sampled	Functional Area	Results	Paint Color	Approximate Quantity square feet (s.f.)	Condition
Northwest Mezzanine	NWM-Pb-1	Wall	Northwest mezzanine (Photo 8)	N	Silver	—	Fair
Northeast Section of 1st Floor	NE1-Pb-1	Floor	1st Floor – Boiler area (Photo 9)	N	Blue	—	Fair
Northeast Section of 1st Floor	NE1-Pb-2	Side of boiler	1st Floor – Boiler room (Photo 10)	N	Silver	—	Poor
Basement	NEB-Pb-1	Wall/Ceiling	Basement – Northeast section (Photo 11)	N	White	—	Fair
Northeast Section of 3rd Floor	NE2-Pb-1	Floor	3rd Floor – Northeast area (Photo 12)	N	Red	—	Poor
Northeast Penthouse	NEP-Pb-1	Ceiling	4th Floor – Northwest area (Photo 13)	Insufficient Weight	Silver	—	Fair
Southwest Section – Stair #1	OFF-Pb-1	Window frame	1st Floor – Office stairway (Photo 14)	N	Brown	—	Intact
Southwest Section – Stair #1	OFF-Pb-2	Stairway components	1st Floor – Office stairway (Photo 15)	N	Gray	—	Intact

Lead-Based Paint Sample Summary Table

P816 Phase V--Building 11
Naval Station great Lakes
Great Lakes, Illinois

Section	Sample ID	Substrate Sampled	Functional Area	Results	Paint Color	Approximate Quantity square feet (s.f.)	Condition
Southwest Section of 3rd Floor	OFF3-Pb-1	Wall	3rd Floor – Office hallway (Photo 16)	N	Light blue-green	—	Intact
Southwest Section of 3rd Floor	OFF3-Pb-2	Wall	3rd Floor – Machine shop	**P**	Green	2,000 sf	Poor
Roof	ROOF-Pb-1	Railing	Roof (Photo 17)	N	Yellow	—	Fair
Roof	ROOF-Pb-2	Beam	Roof (photo 18)	N	Green	—	Fair
Southwest Section of 2nd Floor	OFF2-Pb-1	Exterior window	2nd Floor – Conference room (Photo 19)	**P**	Blue	100 Windows	Poor

Attachment C

Laboratory Analytical Results and Lab Certifications

March 2011
Asbestos Laboratory Analytical Results

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900
Project: **GREAT LAKES NAVAL PHASE 5 BUILDING 11**

Customer ID: ENCG51
Customer PO:
Received: 03/17/11 8:00 AM
EMSL Order: 261101530

EMSL Proj:
Analysis Date: 3/21/2011

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
SW-1A *261101530-0001*	Pipe Insulation	White Non-Fibrous Heterogeneous		85% Non-fibrous (other)	**5% Chrysotile** **10% Amosite**
SW-2A *261101530-0002*	Pipe Insulation	White Non-Fibrous Heterogeneous		85% Non-fibrous (other)	**5% Chrysotile** **10% Amosite**
SW-3A *261101530-0003*	Pipe Insulation	White Non-Fibrous Heterogeneous		80% Non-fibrous (other)	**5% Chrysotile** **15% Amosite**
SW1-1BT *261101530-0004*	12x12 FT-gray/gray specs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-2BT *261101530-0005*	12x12 FT-gray/gray specs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-3BT *261101530-0006*	12x12 FT-gray/gray specs	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-1BM *261101530-0007*	Black mastic associ w/ gray FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Initial report from

Analyst(s)

Alice Hillegass (49) *Jonathan Tallert (35)*
Dahlia Zyhowski (34) *Lisa Odeshoo (2)*

Andrei Poluchowicz,
or other approved signatory

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Project: **GREAT LAKES NAVAL PHASE 5 BUILDING 11**

Customer ID: ENCG51
Customer PO:
Received: 03/17/11 8:00 AM
EMSL Order: 261101530

EMSL Proj:
Analysis Date: 3/21/2011

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
SW1-2BM *261101530-0008*	Black mastic associ w/ gray FT	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
SW1-3BM *261101530-0009*	Black mastic associ w/ gray FT	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
SW1-1C *261101530-0010*	2x4 Ceiling Tile-White	White Fibrous Heterogeneous	30% 50%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**
SW1-2C *261101530-0011*	2x4 Ceiling Tile-White	White Fibrous Heterogeneous	40% 40%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**
SW1-3C *261101530-0012*	2x4 Ceiling Tile-White	Gray/White Fibrous Heterogeneous	60% 20%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**
SW1-1D *261101530-0013*	Window Glaze	Gray Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2% Chrysotile**
SW1-2D *261101530-0014*	Window Glaze	Gray Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2% Chrysotile**

Initial report from

Analyst(s)

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
SW1-3D *261101530-0015*	Window Glaze	Gray Non-Fibrous Heterogeneous		98% Non-fibrous (other)	**2% Chrysotile**
SW1-1ET *261101530-0016*	12x12 FT-Tan w/ small squares	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-2ET *261101530-0017*	12x12 FT-Tan w/ small squares	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-3ET *261101530-0018*	12x12 FT-Tan w/ small squares	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-1EM *261101530-0019*	Black mastic associated w/ tan FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-2EM *261101530-0020*	Black mastic associated w/ tan FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
SW1-3EM *261101530-0021*	Black mastic associated w/ tan FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NW1-1A *261101530-0022*	Pipe ins. Fitting	Various Fibrous Heterogeneous	15% 40%	Cellulose Glass	25%	Non-fibrous (other)	**<1%** **20%**	**Chrysotile** **Amosite**
NW1-2A *261101530-0023*	Pipe ins. Fitting	Various Fibrous Heterogeneous	50%	Glass	50%	Non-fibrous (other)	**None Detected**	
NW1-3A *261101530-0024*	Pipe ins. Fitting	Gray Fibrous Heterogeneous	60%	Min. Wool	20%	Non-fibrous (other)	**10%** **10%**	**Chrysotile** **Amosite**
NW1-1B *261101530-0025*	Pipe Insulation	Gray Fibrous Heterogeneous			75%	Non-fibrous (other)	**5%** **20%**	**Chrysotile** **Amosite**
NW1-2B *261101530-0026*	Pipe Insulation	White Non-Fibrous Heterogeneous			75%	Non-fibrous (other)	**10%** **15%**	**Chrysotile** **Amosite**
NW1-3B *261101530-0027*	Pipe Insulation	White Non-Fibrous Heterogeneous			80%	Non-fibrous (other)	**10%** **10%**	**Chrysotile** **Amosite**
NWM-1A *261101530-0028*	Pipe Ins. Fitting	White Non-Fibrous Heterogeneous	10% 10%	Glass Synthetic	80%	Non-fibrous (other)	**None Detected**	

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
NWM-2A *261101530-0029*	Pipe Ins. Fitting	White Non-Fibrous Heterogeneous	10% 10%	Cellulose Synthetic	80%	Non-fibrous (other)	**None Detected**
NWM-3A *261101530-0030*	Pipe Ins. Fitting	White Non-Fibrous Heterogeneous	10% 10%	Cellulose Synthetic	80%	Non-fibrous (other)	**None Detected**
NWM-1B *261101530-0031*	Pipe Insulation	White Non-Fibrous Heterogeneous	15% 10%	Cellulose Synthetic	75%	Non-fibrous (other)	**None Detected**
NWM-2B *261101530-0032*	Pipe Insulation	White Non-Fibrous Heterogeneous	10% 10%	Cellulose Synthetic	80%	Non-fibrous (other)	**None Detected**
NWM-3B *261101530-0033*	Pipe Insulation	White Non-Fibrous Heterogeneous	10% 10%	Cellulose Synthetic	80%	Non-fibrous (other)	**None Detected**
NE1-1A *261101530-0034*	Boiler Insulation	White Non-Fibrous Heterogeneous			78%	Non-fibrous (other)	**2% Chrysotile** **20% Amosite**
NE1-2A *261101530-0035*	Boiler Insulation	White Non-Fibrous Heterogeneous			78%	Non-fibrous (other)	**2% Chrysotile** **20% Amosite**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NE1-3A *261101530-0036*	Boiler Insulation	White Non-Fibrous Heterogeneous			70%	Non-fibrous (other)	**30%**	**Chrysotile**
NE1-1B *261101530-0037*	Pipe Ins. Fitting	Gray Fibrous Heterogeneous	60%	Min. Wool	25%	Non-fibrous (other)	**15%**	**Chrysotile**
NE1-2B *261101530-0038*	Pipe Ins. Fitting	Gray Fibrous Heterogeneous	65%	Min. Wool	20%	Non-fibrous (other)	**15%**	**Chrysotile**
NE1-3B *261101530-0039*	Pipe Ins. Fitting	Gray Fibrous Heterogeneous	65%	Min. Wool	35%	Non-fibrous (other)	**None Detected**	
NE1-1C *261101530-0040*	Pipe Insulation	White Non-Fibrous Heterogeneous			75%	Non-fibrous (other)	**25%**	**Amosite**
NE1-2C *261101530-0041*	Pipe Insulation	White Non-Fibrous Heterogeneous			75%	Non-fibrous (other)	**25%** **<1%**	**Chrysotile** **Amosite**
NE1-3C *261101530-0042*	Pipe Insulation	White Non-Fibrous Heterogeneous			80%	Non-fibrous (other)	**5%** **15%**	**Chrysotile** **Amosite**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
NWB-1A *261101530-0043*	Laminate Flooring-Tan	Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
NWB-2A *261101530-0044*	Laminate Flooring-Tan	Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
NWB-3A *261101530-0045*	Laminate Flooring-Tan	Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
NWB-1AM *261101530-0046*	Paper under laminate flooring-black	Black Fibrous Heterogeneous	90% 5%	Cellulose Glass	5%	Non-fibrous (other)	**None Detected**
NWB-2AM *261101530-0047*	Paper under laminate flooring-black	Black/Yellow Fibrous Heterogeneous	90% 5%	Cellulose Glass	5%	Non-fibrous (other)	**None Detected**
NWB-3AM *261101530-0048*	Paper under laminate flooring-black	Black Fibrous Heterogeneous	90% 5%	Cellulose Glass	5%	Non-fibrous (other)	**None Detected**
NWB-1B *261101530-0049*	Epoxy Flooring-Dark	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
NWB-2B *261101530-0050*	Epoxy Flooring-Dark	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
NWB-3B *261101530-0051*	Epoxy Flooring-Dark	Gray Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
NE2-1A *261101530-0052*	Pipe Ins. Fitting	Gray Non-Fibrous Heterogeneous			65%	Non-fibrous (other)	**35% Chrysotile** **<1% Amosite**
NE2-2A *261101530-0053*	Pipe Ins. Fitting	Gray Non-Fibrous Homogeneous	5%	Min. Wool	95%	Non-fibrous (other)	**None Detected**
NE2-3A *261101530-0054*	Pipe Ins. Fitting	Gray Non-Fibrous Heterogeneous			75%	Non-fibrous (other)	**25% Amosite**
NE2-1B *261101530-0055*	Pipe Insulation	White Non-Fibrous Homogeneous			70%	Non-fibrous (other)	**10% Chrysotile** **20% Amosite**
NE2-2B *261101530-0056*	Pipe Insulation	White Non-Fibrous Homogeneous			70%	Non-fibrous (other)	**10% Chrysotile** **20% Amosite**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
NE2-3B *261101530-0057*	Pipe Insulation	White Non-Fibrous Heterogeneous	20% 20%	Cellulose Synthetic	60%	Non-fibrous (other)	**None Detected**
NE2-1C *261101530-0058*	Stack Insulation	Gray Fibrous Heterogeneous			55%	Non-fibrous (other)	**30% Chrysotile** **15% Amosite**
NE2-2C *261101530-0059*	Stack Insulation	Gray Non-Fibrous Heterogeneous			55%	Non-fibrous (other)	**30% Chrysotile** **15% Amosite**
NE2-3C *261101530-0060*	Stack Insulation	Gray Fibrous Heterogeneous			65%	Non-fibrous (other)	**35% Chrysotile**
NW2-1A *261101530-0061*	Pipe Ins. Fitting	Gray Non-Fibrous Homogeneous	5% 2% 2%	Cellulose Min. Wool Synthetic	91%	Non-fibrous (other)	**None Detected**
NW2-2A *261101530-0062*	Pipe Ins. Fitting	Gray Non-Fibrous Homogeneous	5% 2% 2%	Cellulose Synthetic Min. Wool	91%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
NW2-3A *261101530-0063*	Pipe Ins. Fitting	Gray Fibrous Heterogeneous	5% 65%	Cellulose Min. Wool	30%	Non-fibrous (other)	**None Detected**
NW2-1B *261101530-0064*	Pipe Insulation	White Non-Fibrous Heterogeneous	5% 5% 5%	Cellulose Synthetic Glass	85%	Non-fibrous (other)	**None Detected**
NW2-2B *261101530-0065*	Pipe Insulation	White Non-Fibrous Heterogeneous	5% 5% 5%	Cellulose Synthetic Glass	85%	Non-fibrous (other)	**None Detected**
NW2-3B *261101530-0066*	Pipe Insulation	White Non-Fibrous Heterogeneous	5% 2% 5%	Cellulose Glass Synthetic	88%	Non-fibrous (other)	**None Detected**
NEP-1A *261101530-0067*	Pipe Ins. Fitting	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
NEP-2A *261101530-0068*	Pipe Ins. Fitting	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

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Attn: **Luke Nienhaus**
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411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900
Project: **GREAT LAKES NAVAL PHASE 5 BUILDING 11**

Customer ID: ENCG51
Customer PO:
Received: 03/17/11 8:00 AM
EMSL Order: 261101530

EMSL Proj:
Analysis Date: 3/21/2011

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NEP-3A *261101530-0069*	Pipe Ins. Fitting	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
OFF3-1AT *261101530-0070*	12x12 FT-White w/ Maroon Streaks	White Non-Fibrous Homogeneous		93% Non-fibrous (other)	**7% Chrysotile**
OFF3-2AT *261101530-0071*	12x12 FT-White w/ Maroon Streaks	White Non-Fibrous Homogeneous		93% Non-fibrous (other)	**7% Chrysotile**
OFF3-3AT *261101530-0072*	12x12 FT-White w/ Maroon Streaks	White Non-Fibrous Homogeneous		93% Non-fibrous (other)	**7% Chrysotile**
OFF3-1AM *261101530-0073*	Mastic associated w/ white/maroon tiles	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
OFF3-2AM *261101530-0074*	Mastic associated w/ white/maroon tiles	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
OFF3-3AM *261101530-0075*	Mastic associated w/ white/maroon tiles	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**

Initial report from

Analyst(s)

Alice Hillegass (49) *Jonathan Tallert (35)*
Dahlia Zyhowski (34) *Lisa Odeshoo (2)*

Andrei Poluchowicz,
or other approved signatory

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
OFF3-1BT *261101530-0076*	12x12 FT-Green	Green Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
OFF3-2BT *261101530-0077*	12x12 FT-Green	Green Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
OFF3-3BT *261101530-0078*	12x12 FT-Green	Green Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
OFF3-1BM *261101530-0079*	Mastic associated w/ green tiles	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
OFF3-2BM *261101530-0080*	Mastic associated w/ green tiles	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
OFF3-3BM *261101530-0081*	Mastic associated w/ green tiles	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
OFF3-1CT *261101530-0082*	12x12 FT-Brown w/ Brown Streaks	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
OFF3-2CT *261101530-0083*	12x12 FT-Brown w/ Brown Streaks	Beige Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-3CT *261101530-0084*	12x12 FT-Brown w/ Brown Streaks	Beige Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-1CM *261101530-0085*	Black mastic associated w/ brown floor tile	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-2CM *261101530-0086*	Black mastic associated w/ brown floor tile	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-3CM *261101530-0087*	Black mastic associated w/ brown floor tile	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-1D *261101530-0088*	Laminate material-Brown	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-2D *261101530-0089*	Laminate material-Brown	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**		**% Type**
OFF3-3D *261101530-0090*	Laminate material-Brown	Gray Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-1ET *261101530-0091*	12x12 FT-Gray	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-2ET *261101530-0092*	12x12 FT-Gray	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-3ET *261101530-0093*	12x12 FT-Gray	Brown Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-1EM *261101530-0094*	Mastic associated w/ gray FT	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-2EM *261101530-0095*	Mastic associated w/ gray FT	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**
OFF3-3EM *261101530-0096*	Mastic associated w/ gray FT	Black Non-Fibrous Homogeneous		100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
OFF3-1FT *261101530-0097*	12x12 FT-Beige w/ green specs	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF3-2FT *261101530-0098*	12x12 FT-Beige w/ green specs	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF3-3FT *261101530-0099*	12x12 FT-Beige w/ green specs	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF3-1FM *261101530-0100*	Mastic associated w/ beige/green FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF3-2FM *261101530-0101*	Mastic associated w/ beige/green FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF3-3FM *261101530-0102*	Mastic associated w/ beige/green FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF2-1A *261101530-0103*	Pipe Insulation	White Non-Fibrous Heterogeneous		75% Non-fibrous (other)	**25% Chrysotile**

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
OFF2-2A *261101530-0104*	Pipe Insulation	White Non-Fibrous Heterogeneous		75% Non-fibrous (other)	**25% Chrysotile**
OFF2-3A *261101530-0105*	Pipe Insulation	White Non-Fibrous Heterogeneous		75% Non-fibrous (other)	**25% Chrysotile**
OFF2-1BT *261101530-0106*	12x12 FT-Beige w/ Black spots	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF2-2BT *261101530-0107*	12x12 FT-Beige w/ Black spots	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF2-3BT *261101530-0108*	12x12 FT-Beige w/ Black spots	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF2-1BM *261101530-0109*	Mastic assocaited w/ beige FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
OFF2-2BM *261101530-0110*	Mastic assocaited w/ beige FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
OFF2-3BM *261101530-0111*	Mastic assocaited w/ beige FT	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
ROOF-1A *261101530-0112*	Asphalt roof decking-gray/black	Gray/Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
ROOF-2A *261101530-0113*	Asphalt roof decking-gray/black	Gray/Black Non-Fibrous Heterogeneous	5%	Glass	95%	Non-fibrous (other)	**None Detected**
ROOF-3A *261101530-0114*	Asphalt roof decking-gray/black	Gray/Black Non-Fibrous Heterogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**
ROOF-1B *261101530-0115*	Roof flashing-black	Black Non-Fibrous Heterogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**
ROOF-2B *261101530-0116*	Roof flashing-black	Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
ROOF-3B *261101530-0117*	Roof flashing-black	Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
ROOF-1C *261101530-0118*	Gravel roof decking-Black	Black Non-Fibrous Heterogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**
ROOF-2C *261101530-0119*	Gravel roof decking-Black	Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
ROOF-3C *261101530-0120*	Gravel roof decking-Black	Black Non-Fibrous Heterogeneous	15%	Cellulose	85%	Non-fibrous (other)	**None Detected**

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Phone: (312) 663-3900
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Asbestos Bulk Sampling Log and Chain of Custody Form

2611101530

Project Name: Great Lakes Naval - Phase 5

Project Location: Building 11

Date of Collection: 3/16/11

ECG Project No.:

Chain of Custody Information

Inspector Taking Samples: [illegible]

Person Delivering at Lab: [illegible]

Person Receiving at Lab: 3·11·11·DB·08:00

Lab Technician Analyzing:

Date of Analysis:

120

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lnienhaus@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
SW1 - 1A		Pipe Insulation	Southwest Boiler Area - 1st floor	
- 2A		↓	↓	
- 3A		↓	↓	
SW1 - 1BT		12"x12" floor tile - Gray w/ gray specs	Southwest Boiler Area - 1st floor (bottom of stairway)	
- 2BT		↓	↓	
- 3BT		↓	↓	
SW1 - 1BM		Black mastic associated w/ Gray floor tile	Southwest Boiler Area - 1st floor (bottom of stairway)	
- 2BM		↓	↓	
- 3BM		↓	↓	
SW1 - 1C		2'x4' ceiling tile - white	Southwest Boiler Area - 1st floor (Swam office)	
- 2C		↓	↓	
- 3C		↓	↓	

Comments:

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Asbestos Bulk Sampling Log and Chain of Custody Form

1530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information
Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lniemhaus@ecucg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
SW1 - 1D		Window glaze	Southwest Boiler Area - 1st floor window	
-2D		↓	↓	
-3D				
SW1 - 1ET		12"x12" floor tile - Tan w/small squares	Southwest Boiler Area - Control Room	
-2ET		↓	↓	
-3ET				
SW1 - 1EM		black mastic associated w/ tan floor tile	Southwest Boiler Area - Control Room	
-2EM		↓	↓	
-3EM				
NW1 - 1A		Pipe ins. fitting	Northwest Boiler Area - 1st floor	
-2A		↓	↓	
-3A				

Comments:

261101530

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1530

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Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lwienhaus@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NW1 - 1B		Pipe Insulation	Northwest Boiler Area - 1st floor	
- 2B		↓	↓	
- 3B		↓	↓	
NWM - 1A		Pipe ins. fitting	Northwest Boiler Area - Mezzanine	
- 2A		↓	↓	
- 3A		↓	↓	
NWM - 1B		Pipe Insulation	North west Boiler Area - Mezzanine	
- 2B		↓	↓	
- 3B		↓	↓	
NE1 - 1A		Boiler Insulation	Northeast Boiler Area - 1st floor	
- 2A		↓	↓	
- 3A		↓	↓	

Comments:

261101530

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

1530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information
Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: [illegible]@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NE1-1B		Pipe Ins. Fitting	Northeast Boiler Area - 1st floor	
-2B		↓	↓	
-3B				
NE1-1C		Pipe Insulation	Northeast Boiler Area - 1st floor	
-2C		↓	↓	
-3C				
NWB-1A		Laminate flooring - tan	Northwest Boiler Basement shop Area	
-2A		↓	↓	
-3A				
NWB-1AM		Paper under laminate flooring - Black	Northwest Boiler Basement shop Area	
-2AM		↓	↓	
-3AM				

Comments:

261101530

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411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

1530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information
Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lniemhaus@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NWB-1B		Epoxy flooring - Dark	Northwest Boiler Basement Area	
-2B		↓	↓	
-3B		↓	↓	
NE2-1A		Pipe Insl. fitting	Northeast Areas - 2nd, 3rd, 4th floors	
-2A		↓	↓	
-3A		↓	↓	
NE2-1B		Pipe Insulation	Northeast Areas - 2nd, 3rd, 4th floors	
-2B		↓	↓	
-3B		↓	↓	
NE2-1C		Stack Insulation	Northeast Areas - 2nd, 3rd, 4th floors	
-2C		↓	↓	
-3C		↓	↓	

Comments:

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411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form 1530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information
Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lvienhaus@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NW2 - 1A		Pipe Ins. fitting	Northwest Area - 2nd floor	
-2A		↓	↓	
-3A		↓	↓	
NW2 - 1B		Pipe Insulation	Northwest Area - 2nd floor	
-2B		↓	↓	
-3B		↓	↓	
NEP - 1A		Pipe Ins. fitting	Northeast Penthouse	
-2A		↓	↓	
-3A		↓	↓	
OFF3 - 1AT		12"x12" floor tile - white w/ maroon streaks	3rd floor office Area	
-2AT		↓	↓	
-3AT		↓	↓	

Comments:

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411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form 1530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information

Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lwienhaus@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
OFF3 - 1AM		Mastic associated w/ white/mauve tiles	3rd floor - Office Area	
-2AM		↓	↓	
-3AM				
OFF3 - 1BT		12"x12" floor tile - Green	3rd floor - Office Area	
-2BT		↓	↓	
-3BT				
OFF3 - 1BM		Mastic Associated w/ Green tiles	3rd floor - Office Area	
-2BM		↓	↓	
-3BM				
OFF3 - 1CT		12"x12" floor tile - Brown w/ Brown streaks	3rd floor - Office Area	
-2CT		↓	↓	
-3CT				

Comments:

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Phone: (312) 663-3900
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Asbestos Bulk Sampling Log and Chain of Custody Form

530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information
Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lwienhaus@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
OFF3- 1CM		Black Mastic Associated w/ Brown floor tile	3rd floor office Area	
-2CM		↓	↓	
-3CM				
OFF3- 1D		Laminate material Brown	3rd floor - office Area - under floor tile	
-2D		↓		
-3D				
OFF3- 1ET		12"x12" floor tile - Grey	3rd floor - Machine Shop	
-2ET		↓	↓	
-3ET				
OFF3- 1EM		Mastic associated w/ Grey floor tile	3rd floor - machine shop	
-2EM		↓	↓	
-3EM				

Comments:

261101530

Environmental Consulting Group, Inc.
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Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information
Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: lnienhaus@enucg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
OFF3-1FT		12"x12" floor tile - Beige w/ green specs	3rd floor - office Area Rm 305	
-2FT		↓	↓	
-3FT				
OFF3-1FM		Mastic Associated w/ Beige/green floor tiles	3rd floor - office Area Rm 305	
-2FM		↓	↓	
-3FM				
OFF2-1A		Pipe Insulation	2nd floor - office conf. room	
-2A		Pipe Insulation	↓	
-3A		Pipe Insulation		
OFF2-1BT		12" x 12" floor tile - Beige w/ Black spots	2nd floor - office Area	
-2BT		↓	↓	
-3BT				

Comments:

261101530

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411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

1530

Project Name: Great Lakes Naval - Phase 5
Project Location: Building 11
Date of Collection: 3/16/11
ECG Project No.:

Chain of Custody Information
Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☐ 24 Hrs ☒ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: luirenhaus@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
OFF2 - 1BM		Mastic Associated w/ Beige floor tiles	2nd floor - Office Area	
-2BM		↓	↓	
-3BM		↓	↓	
Roof - 1 A		Asphalt roof decking - Gray/Black	Roof	
-2A		↓	↓	
-3A		↓	↓	
Roof - 1B		Roof flashing - Black	Roof	
-2B		↓	↓	
-3B		↓	↓	
Roof - 1C		Gravel Roof decking - Black	Roof	
-2C		↓	↓	
-3C		↓	↓	

Comments:

261101530

October 2011
Asbestos Laboratory Analytical Results

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID:	ENCG51
Customer PO:	cc08707G$192.
Received:	10/19/11 7:45 PM
EMSL Order:	261107353
EMSL Proj:	
Analysis Date:	10/20/2011

Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**% Type**
SW1-1D *261107353-0001*	Window glaze - 1st Flr-generator area	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	**None Detected**
SW1-2D *261107353-0002*	Window glaze - 1st Flr-generator area	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	**None Detected**
SW1-3D *261107353-0003*	Window glaze - 1st Flr-generator area	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	**None Detected**

Initial report from 10/20/2011 15:30:16

Analyst(s)

Alice Hillegass (2)
Dahlia Zyhowski (1)

Andrei Poluchowicz,
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytica suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be rep except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United S Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layer samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise note Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

THIS IS THE LAST PAGE OF THE REPORT.

261107353

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/18/11
ECG Project No.: A11 1305 - 104

Chain of Custody Information

Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab: 10.19.11 7:45 PM
Lab Technician Analyzing: WALK IN
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☐ PLM ☐ TEM ☒ Other PLM Point Count

Report Results: ☐ ECG Fax ☒ E-mail: Sszeredy@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
SW1-1D		Window Glaze	1st floor - Generator Area	
SW1-2D		↓	↓	
SW1-3D				

Comments:

261107353

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Steven Szeredy**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc02739G$2375.
Received: 10/21/11 1:22 PM
EMSL Order: 261107421

EMSL Proj:
Analysis Date: 10/24/2011

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
SW1-1BT *261107421-0001*	Southwest Boiler Area 1st Floor (Basement of Stair	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-2BT *261107421-0002*	Southwest Boiler Area 1st Floor (Basement of Stair	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-3BT *261107421-0003*	Southwest Boiler Area 1st Floor (Basement of Stair	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-1BM *261107421-0004*	Southwest Boiler Area-1st Fl. (bottom of stairway)	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-2BM *261107421-0005*	Southwest Boiler Area-1st Fl. (bottom of stairway)	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-3BM *261107421-0006*	Southwest Boiler Area-1st Fl. (bottom of stairway)	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-1ET *261107421-0007*	Southwest Boiler Area - Control Room	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-2ET *261107421-0008*	Southwest Boiler Area - Control Room	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected

Initial report from 10/25/2011 08:01:53

Analyst(s)
James Hahn (25)

Andrei Poluchowicz,
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may r reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Chicago, IL

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Steven Szeredy**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc02739G$2375.
Received: 10/21/11 1:22 PM
EMSL Order: 261107421

EMSL Proj:
Analysis Date: 10/24/2011

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
SW1-3ET *261107421-0009*	Southwest Boiler Area - Control Room	Tan Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-1EM *261107421-0010*	Southwest Boiler Area - Control Room	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-2EM *261107421-0011*	Southwest Boiler Area - Control Room	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
SW1-3EM *261107421-0012*	Southwest Boiler Area - Control Room	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-1CT *261107421-0013*	3rd floor-office Area	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-2CT *261107421-0014*	3rd floor-office Area	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-3CT *261107421-0015*	3rd floor-office Area	Brown Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-1CM *261107421-0016*	3rd floor-office Area				
Insufficient Material					

Initial report from 10/25/2011 08:01:53

Analyst(s)

James Hahn (25)

Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Steven Szeredy**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc02739G$2375.
Received: 10/21/11 1:22 PM
EMSL Order: 261107421

EMSL Proj:
Analysis Date: 10/24/2011

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
OFF3-2CM *261107421-0017*	3rd floor-office Area	Black Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-3CM *261107421-0018*	3rd floor-office Area				
Insufficient Material					
OFF3-1ET *261107421-0019*	3rd Floor machine shop	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-2ET *261107421-0020*	3rd Floor machine shop	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-3ET *261107421-0021*	3rd Floor machine shop	Gray Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-1EM *261107421-0022*	3rd Floor machine shop				
Insufficient Material					
OFF3-2EM *261107421-0023*	3rd Floor machine shop				
Insufficient Material					

Initial report from 10/25/2011 08:01:53

Analyst(s)

James Hahn (25)

Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Steven Szeredy**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc02739G$2375.
Received: 10/21/11 1:22 PM
EMSL Order: 261107421

EMSL Proj:
Analysis Date: 10/24/2011

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
OFF3-3EM *261107421-0024*	3rd Floor machine shop				
Insufficient Material					
OFF3-1FT *261107421-0025*	3rd floor-office Area-Rm 305	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-2FT *261107421-0026*	3rd floor-office Area-Rm 305	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-3FT *261107421-0027*	3rd floor-office Area-Rm 305	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF3-1FM *261107421-0028*	3rd floor-office Area-Rm 305				
Insufficient Material					
OFF3-2FM *261107421-0029*	3rd floor-office Area-Rm 305				
Insufficient Material					
OFF3-3FM *261107421-0030*	3rd floor-office Area-Rm 305				
Insufficient Material					

Initial report from 10/25/2011 08:01:53

Analyst(s)

James Hahn (25)

Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL

EMSL Analytical, Inc.
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Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Steven Szeredy**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc02739G$2375.
Received: 10/21/11 1:22 PM
EMSL Order: 261107421

EMSL Proj:
Analysis Date: 10/24/2011

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
OFF2-1BT *261107421-0031*	2nd Floor-office area	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF2-2BT *261107421-0032*	2nd Floor-office area	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF2-3BT *261107421-0033*	2nd Floor-office area	Beige Non-Fibrous Homogeneous	100	None	No Asbestos Detected
OFF2-1BM *261107421-0034*	2nd Floor-office area				
Insufficient Material					
OFF2-2BM *261107421-0035*	2nd Floor-office area				
Insufficient Material					
OFF2-3BM *261107421-0036*	2nd Floor-office area				
Insufficient Material					

Initial report from 10/25/2011 08:01:53

Analyst(s)

James Hahn (25)

Andrei Poluchowicz,
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may r reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Chicago, IL

THIS IS THE LAST PAGE OF THE REPORT.

261107421

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/20/11
ECG Project No.: A11 1305-104

Chain of Custody Information

Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab: [illegible] 1:22pm walk in
Lab Technician Analyzing: 10/21/11
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☐ PLM ☒ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: SSzeredy@envecg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
SW1-1BT		12"x12" floor tile - Gray w/ Gray specs	Southwest boiler area - 1st fl. (Bottom of stairway)	
-2BT		↓	↓	
-3BT				
SW1-1BM		Black mastic associated w/ Gray floor tile	Southwest boiler area - 1st fl. (Bottom of stairway)	
-2BM		↓	↓	
-3BM				
SW1-1ET		12"x12" floor tile - tan w/ small squares	Southwest Boiler Area - Control Room	
-2ET		↓	↓	
-3ET				
SW1-1EM		Black mastic associated w/ tan floor tile	South west Boiler Area - Control Room	
-2EM		↓	↓	
-3EM				

Comments:

261107421

-7421

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/21/11
ECG Project No.: All 1305-104

Chain of Custody Information
Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☐ PLM ☒ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Ssreveda@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
OFF3-1CT		12"x12" floor tile - Brown w/ brown streaks	3rd floor - Office Area	
-2CT		↓	↓	
-3CT				
OFF3-1Cm		Black mastic associated w/ brown tiles	3rd floor - office Area	
2Cm		↓	↓	
3Cm				
OFF3-1ET		12"x12" floor tile - Gray	3rd floor - machine shop	
-2ET		↓	↓	
-3ET				
OFF3-1Em		Mastic associated w/ Gray floor tile	3rd floor - machine shop	
-2Em		↓	↓	
-3Em				

Comments:

261107421

-7421

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/21/11
ECG Project No.: A11 1305 - 104

Chain of Custody Information
Inspector Taking Samples: L.L.
Person Delivering at Lab: L.L.
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☐ PLM ☒ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Sszeredy@ecgi.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
OFF3-1FT		12"x12" Floor tile - Beige w/ Green specs	3rd floor - Office Area - Rm 305	
-2FT		↓	↓	
-3FT				
OFF3-1Fm		Mastic associated w/ Beige w/ Green Specs	3rd Floor - office Area - Rm 305	
-2Fm		↓	↓	
-3Fm				
OFF2-1BT		12"x12" floor tile - Beige w/ black spots	2nd floor - office Area	
-2BT		↓	↓	
-3BT				
OFF2-1Bm		Mastic associated w/ Beige floor tiles	2nd floor - office Area	
-2Bm		↓	↓	
-3Bm				

Comments:

261107421

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Attn: **Steven Szeredy**
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Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc04077G$175.
Received: 10/20/11 5:45 PM
EMSL Order: 261107404

EMSL Proj:
Analysis Date: 10/21/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
B-07 *261107404-0001*	PIPE INSUL	White Non-Fibrous Heterogeneous	20%	Cellulose	80%	Non-fibrous (other)		**None Detected**
B-08 *261107404-0002*	PIPE INSUL	White Non-Fibrous Heterogeneous	15% 10%	Cellulose Glass	75%	Non-fibrous (other)		**None Detected**
B-09 *261107404-0003*	PIPE INSUL FITTING	White Non-Fibrous Heterogeneous	20%	Cellulose	80%	Non-fibrous (other)		**None Detected**
B-10 *261107404-0004*	PIPE INSUL	White Non-Fibrous Heterogeneous	5% 10%	Glass Synthetic	85%	Non-fibrous (other)		**None Detected**
B-11 *261107404-0005*	CONCRETE CAULKING	Black Non-Fibrous Heterogeneous	10%	Cellulose	90%	Non-fibrous (other)		**None Detected**
B-12 *261107404-0006*	ASPHALT ROOFING	Black Non-Fibrous Heterogeneous			95%	Non-fibrous (other)	**5%**	**Chrysotile**
CG-1 *261107404-0007*	PIPE INSUL	White Fibrous Heterogeneous	45%	Glass	55%	Non-fibrous (other)		**None Detected**

Initial report from 10/24/2011 08:31:24

Analyst(s)

Alice Hillegass (25)

Andrei Poluchowicz,
or other approved signatory

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411 S. Wells St., Suite 700
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Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc04077G$175.
Received: 10/20/11 5:45 PM
EMSL Order: 261107404

EMSL Proj:
Analysis Date: 10/21/2011

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
CG-2 *261107404-0008*	PIPE INSUL FITTING	White Fibrous Heterogeneous	40% 10%	Glass Cellulose	50%	Non-fibrous (other)	**None Detected**
CG-3 *261107404-0009*	PIPE INSUL	White Fibrous Heterogeneous	5% 30% 5%	Cellulose Glass Synthetic	60%	Non-fibrous (other)	**None Detected**
CG-4 *261107404-0010*	PIPE INSUL FITTING	White Fibrous Heterogeneous	5% 25%	Cellulose Glass	70%	Non-fibrous (other)	**None Detected**
CG-5 *261107404-0011*	PIPE INSUL	White Fibrous Heterogeneous	40% 3%	Glass Synthetic	57%	Non-fibrous (other)	**None Detected**
CG-6 *261107404-0012*	PIPE INSUL FITTING	White Non-Fibrous Heterogeneous	5%	Cellulose	95%	Non-fibrous (other)	**None Detected**
CG-7 *261107404-0013*	PIPE INSUL	White Fibrous Heterogeneous	5% 40%	Cellulose Glass	55%	Non-fibrous (other)	**None Detected**
CG-8 *261107404-0014*	PIPE INSUL FITTING	White Fibrous Heterogeneous	5% 40%	Cellulose Glass	55%	Non-fibrous (other)	**None Detected**

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Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc04077G$175.
Received: 10/20/11 5:45 PM
EMSL Order: 261107404

EMSL Proj:
Analysis Date: 10/21/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
CG-9 *261107404-0015*	PIPE INSUL	White Fibrous Heterogeneous	5% 40%	Cellulose Glass	55%	Non-fibrous (other)	**None Detected**	
CG-10 *261107404-0016*	PIPE INSUL FITTING	White Fibrous Heterogeneous	5% 40%	Cellulose Glass	55%	Non-fibrous (other)	**None Detected**	
CG-11 *261107404-0017*	PIPE INSUL	White Fibrous Heterogeneous	10% 20%	Cellulose Glass	70%	Non-fibrous (other)	**None Detected**	
CG-12 *261107404-0018*	PIPE INSUL FITTING	White Non-Fibrous Heterogeneous	10% 20%	Cellulose Glass	70%	Non-fibrous (other)	**None Detected**	
OS-1 *261107404-0019*	PIPE INSUL FITTING	Gray/White Fibrous Heterogeneous			70%	Non-fibrous (other)	**30%**	**Chrysotile**
OS-2 *261107404-0020*	PIPE INSUL	Brown/Silver Non-Fibrous Heterogeneous			70%	Non-fibrous (other)	**30%**	**Amosite**
OS-3 *261107404-0021*	PIPE INSUL	White Fibrous Heterogeneous	75%	Glass	25%	Non-fibrous (other)	**None Detected**	

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Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc04077G$175.
Received: 10/20/11 5:45 PM
EMSL Order: 261107404

EMSL Proj:
Analysis Date: 10/21/2011

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
OS-4 *261107404-0022*	PIPE INSUL FITTING	White Fibrous Heterogeneous	5% 50%	Cellulose Glass	45%	Non-fibrous (other)	**None Detected**
ER-01 *261107404-0023*	FELT PAPER	Black Fibrous Heterogeneous	65% 5%	Cellulose Synthetic	30%	Non-fibrous (other)	**None Detected**
ER-02 *261107404-0024*	FELT PAPER	Black Fibrous Heterogeneous	65% 5%	Cellulose Synthetic	30%	Non-fibrous (other)	**None Detected**
ER-03 *261107404-0025*	FELT PAPER	Black Fibrous Heterogeneous	65% 5%	Cellulose Synthetic	30%	Non-fibrous (other)	**None Detected**

Initial report from 10/24/2011 08:31:24

Analyst(s)

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or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

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261107404

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/20/11
ECG Project No.: A11 1305-104

Chain of Custody Information

Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab: Shawn B. Jones 5:45pm walk-in
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☐ E-mail: ssziredy@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
B-07		Pipe Insulation -	Boiler #4 - 2nd Floor/main (west (entral))	
B-08		Pipe Insulation	Boiler #4 - SW corner - 4th fl.	
B-09		Pipe Insulation fitting	Boiler #4 - SW corner - 4th fl.	
B-10		Pipe Insulation	Boiler #4 - SW corner - 4th fl.	
B-11		Concrete caulking - Black	Boiler #4 - 4th floor penthouse	
B-12		Asphalt roofing - Black	Boiler #4 - 4th floor penthouse	
CG-1		pipe insulation	Co-Gen Lower level (west room) (LL)	
CG-2		pipe insulation fitting	Co-Gen North side lower level (LL)	
CG-3		pipe insulation	"	
CG-4		pipe insulation fitting	Co-Gen LL - Hi pressure Nat Gas	
CG-5		Pipe insulation	Co-Gen Upper level (Up) - 125 # steam	
CG-6		pipe insulation fitting	Co-Gen Up - 125 # steam	
CG-7		pipe insulation	Co-Gen Up - Amonia Vapor	

Comments: B = Boiler #4 CG = Co-Gen

261107404

-7404

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Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/20/11
ECG Project No.: A11 1305 - 104

Chain of Custody Information

Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab: Shaica B Jones 5:45pm walk-in
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Sszeredy@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
CG-8		Pipe insulation fitting	Co-Gen UP - Ammonia Vapor	
CG-9		pipe insulation	Co-Gen UP - South Gen. east end	
CG-10		pipe insulation fitting	Co-Gen UP - "	
CG-11		Pipe insulation	Co-Gen UP - "Boiler Down comer"	
CG-12		pipe insulation fitting	"	
OS-1		pipe insulation fitting	Old Side - southeast section	
OS-2		pipe insulation	"	
OS-3		pipe insulation	Old side - east catwalk "trasar #4"	
OS-4		pipe insulation fitting	"	
ER-01		Felt paper - Black	Engine Room - Northbasement ceiling	
ER-02		↓	↓	
ER-03				

Comments: CG = Co-Gen OS = Old Side ER = Engine Room

261107404

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Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc04095G$154.
Received: 10/21/11 1:22 PM
EMSL Order: 261107422

EMSL Proj:
Analysis Date: 10/22/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
EX-01 *261107422-0001*	Exterior North Wall Outside Boiler 5/6	Black Fibrous Heterogeneous	35%	Cellulose	65%	Non-fibrous (other)	**None Detected**	
EX-02 *261107422-0002*	Exterior North Wall Outside Boiler 5/6	Black Fibrous Heterogeneous	35%	Cellulose	65%	Non-fibrous (other)	**None Detected**	
EX-03 *261107422-0003*	Exterior North Wall Outside Boiler 5/6	Black Fibrous Heterogeneous	35%	Cellulose	65%	Non-fibrous (other)	**None Detected**	
EX-04 *261107422-0004*	Oldside East Exterior Window	White Non-Fibrous Homogeneous	5%	Wollastonite	95%	Non-fibrous (other)	**<1%**	**Chrysotile**
EX-05 *261107422-0005*	Oldside East Exterior Window	White Non-Fibrous Homogeneous	5%	Wollastonite	95%	Non-fibrous (other)	**<1%**	**Chrysotile**
EX-06 *261107422-0006*	Oldside East Exterior Window	White Non-Fibrous Homogeneous	5%	Wollastonite	95%	Non-fibrous (other)	**<1%**	**Chrysotile**
EX-07 *261107422-0007*	Covers East Main Entrance to Old Side	Black Fibrous Heterogeneous	10%	Cellulose	65%	Non-fibrous (other)	**25%**	**Chrysotile**

Initial report from 10/24/2011 08:32:49

Analyst(s)

Alice Hillegass (7)
Dahlia Zyhowski (15)

Andrei Poluchowicz,
or other approved signatory

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Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc04095G$154.
Received: 10/21/11 1:22 PM
EMSL Order: 261107422

EMSL Proj:
Analysis Date: 10/22/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
EX-08 *261107422-0008*	Covers East Main Entrance to Old Side	Black Fibrous Heterogeneous	10%	Cellulose	65%	Non-fibrous (other)	**25%**	**Chrysotile**
EX-09 *261107422-0009*	Covers East Main Entrance to Old Side	Black Fibrous Heterogeneous	10%	Cellulose	65%	Non-fibrous (other)	**25%**	**Chrysotile**
EX-10 *261107422-0010*	Southeast corner of building ground floor	Black Non-Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**	
EX-11 *261107422-0011*	Southeast corner of building ground floor	Black Non-Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**	
EX-12 *261107422-0012*	Southeast corner of building ground floor	Black Non-Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**	
EX-13 *261107422-0013*	Behind flashing SE Corner of building ground Floor	Black Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**	

Initial report from 10/24/2011 08:32:49

Analyst(s)

Alice Hillegass (7)
Dahlia Zyhowski (15)

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
EX-14 *261107422-0014*	Behind flashing SE Corner of building ground Floor	Black Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**	
EX-15 *261107422-0015*	Behind flashing SE Corner of building ground Floor	Black Fibrous Homogeneous	80%	Cellulose	20%	Non-fibrous (other)	**None Detected**	
EX-16 *261107422-0016*	East exterior window above 3rd floor office	White Non-Fibrous Homogeneous			97%	Non-fibrous (other)	**3%**	**Chrysotile**
EX-17 *261107422-0017*	East exterior window above 3rd floor office	White Non-Fibrous Homogeneous			97%	Non-fibrous (other)	**3%**	**Chrysotile**
EX-18 *261107422-0018*	East exterior window above 3rd floor office	White Non-Fibrous Heterogeneous			97%	Non-fibrous (other)	**3%**	**Chrysotile**
EX-19 *261107422-0019*	Roof access building- west	Gray Non-Fibrous Heterogeneous	15% 10%	Cellulose Min. Wool	75%	Non-fibrous (other)	**None Detected**	

Initial report from 10/24/2011 08:32:49

Analyst(s)

Alice Hillegass (7)
Dahlia Zyhowski (15)

Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

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411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building II Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc04095G$154.
Received: 10/21/11 1:22 PM
EMSL Order: 261107422

EMSL Proj:
Analysis Date: 10/22/2011

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
EX-20 *261107422-0020*	Roof access building inside cavity	Gray Fibrous Heterogeneous	70% 10%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**
EX-21 *261107422-0021*	Roof access building inside cavity	Gray Fibrous Heterogeneous	70% 10%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**
EX-22 *261107422-0022*	Roof access building inside cavity	Brown/Gray/White Fibrous Heterogeneous	95%	Cellulose	0% 5%	Non-fibrous (other) Perlite	**None Detected**

Initial report from 10/24/2011 08:32:49

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

THIS IS THE LAST PAGE OF THE REPORT.

261107422

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/21/11
ECG Project No.: A11 1305-104

Chain of Custody Information

Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab: [illegible] 10/24/11 1:22pm walk In
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Sszeredy@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
Ex-01		Black wall flashing -	Exterior north wall - outside boiler 5/6	
-02		↓	↓	
-03				
Ex-04		window caulking - white	oldside east exterior window	
-05		↓	↓	
-06				
Ex-07		Roofing - Black	Covers east main entrance to Old Side	
-08		↓	↓	
-09				
Ex-10		Roofing Flashing - Black	Southeast corner of building - Ground floor	
-11		↓	↓	
-12				

Comments:

261107422

-7422

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/21/11
ECG Project No. All 1305-104

Chain of Custody Information
Inspector Taking Samples: LLZ
Person Delivering at Lab: LL
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Sszerady@envecg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
Ex-13		Roofing Felt paper - Black	Behind flashing - SE corner of building (Ground floor)	
-14		↓	↓	
-15				
Ex-16		Window glaze	East exterior window - above 3rd floor office	
-17		↓	↓	
-18				
Ex-19		Pipe insulation fitting	Roof Access building - west	
Ex -20		Friable wall insulation	Roof Access building - inside cavity	
-21		↓	↓	
-22				

Comments:

261107422

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Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID:	ENCG51
Customer PO:	cc08683G$420.
Received:	10/19/11 7:45 PM
EMSL Order:	261107352
EMSL Proj:	
Analysis Date:	10/20/2011

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
B-01 *261107352-0001*	Boiler # 4- mortar/brick - Main floor-inside boiler # 4	Rust Non-Fibrous Heterogeneous	5%	Glass	95%	Non-fibrous (other)	**None Detected**
B-02 *261107352-0002*	Boiler # 4- mortar/brick - Main floor-inside boiler # 4	Rust Non-Fibrous Heterogeneous	5%	Glass	95%	Non-fibrous (other)	**None Detected**
B-03 *261107352-0003*	Boiler # 4- mortar/brick - Main floor-inside boiler # 4	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-04 *261107352-0004*	Boiler # 4- boiler access door insulation - Main floor-inside boiler # 4	Cream Fibrous Heterogeneous	90%	Min. Wool	10%	Non-fibrous (other)	**None Detected**
B-05 *261107352-0005*	Boiler # 4- boiler access door insulation - Main floor-inside boiler # 4	Cream Fibrous Heterogeneous	90%	Min. Wool	10%	Non-fibrous (other)	**None Detected**

Two samples labeled 'B-05' submitted.

Initial report from 10/20/2011 15:31:18

Analyst(s)

Alice Hillegass (10)
Dahlia Zyhowski (50)

Andrei Poluchowicz,
or other approved signatory

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
B-06 *261107352-0006*	Boiler # 4- boiler access door insulation - Main floor-inside boiler # 4							**Not Submitted**
NS-01 *261107352-0007*	Boiler # 5- boiler access door insulation - Main floor-inside boiler # 5	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**
NS-02 *261107352-0008*	Boiler # 5- boiler access door insulation - Main floor-inside boiler # 5	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**
NS-03 *261107352-0009*	Boiler # 5- boiler access door insulation - Main floor-inside boiler # 5	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**
NS-04 *261107352-0010*	Boiler # 5- boiler access mortar/brick - Main floor-inside boiler # 5	Rust Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
NS-05 *261107352-0011*	Boiler # 5- boiler access mortar/brick - Main floor-inside boiler # 5	Rust Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
NS-06 *261107352-0012*	Boiler # 5- boiler access mortar/brick - Main floor-inside boiler # 5	Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
NS-07-Floor Tile *261107352-0013*	12"x12" floor tile-white w/colored specs - Main floor-new side bathroom	White/Various Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
NS-07-Mastic *261107352-0013A*	12"x12" floor tile-white w/colored specs - Main floor-new side bathroom	Black/Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
NS-08-Floor Tile *261107352-0014*	12"x12" floor tile-white w/colored specs - Main floor-new side bathroom	White/Various Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

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EMSL Proj:	
Analysis Date:	10/20/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NS-08-Mastic *261107352-0014A*	12"x12" floor tile-white w/colored specs - Main floor-new side bathroom	Black/Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**
NS-09-Floor Tile *261107352-0015*	12"x12" floor tile-white w/colored specs - Main floor-new side bathroom	White/Various Non-Fibrous Homogeneous			100%	Non-fibrous (other)		**None Detected**
NS-09-Mastic *261107352-0015A*	12"x12" floor tile-white w/colored specs - Main floor-new side bathroom	Black/Yellow Non-Fibrous Heterogeneous			100%	Non-fibrous (other)		**None Detected**
NS-10 *261107352-0016*	Pipe insulation fitting - East side of boiler #6-main floor	Gray Fibrous Heterogeneous	10%	Min. Wool	30%	Non-fibrous (other)	**60%**	**Chrysotile**
NS-11 *261107352-0017*	2'x4' Ceiling tile - white - Main floor-new side bathroom	White Fibrous Heterogeneous	20% 60%	Cellulose Min. Wool	20%	Non-fibrous (other)		**None Detected**
NS-12 *261107352-0018*	Pipe insulation fitting - Main floor-new side bathroom	White Non-Fibrous Heterogeneous	10%	Cellulose	90%	Non-fibrous (other)		**None Detected**

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			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NS-13 *261107352-0019*	Pipe insulation fitting - Main floor-new side bathroom	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**	
NS-14 *261107352-0020*	Pipe insulation fitting - Main floor-new side west	Gray Fibrous Heterogeneous			50%	Non-fibrous (other)	**50%**	**Chrysotile**
NS-15 *261107352-0021*	Pipe insulation fitting - Main floor-new side west	Gray Fibrous Heterogeneous	20%	Min. Wool	65%	Non-fibrous (other)	**15%**	**Amosite**
NS-16 *261107352-0022*	Pipe insulation fitting - Main floor-new side west	White Fibrous Heterogeneous			55%	Non-fibrous (other)	**5%** **40%**	**Chrysotile** **Amosite**
NS-17 *261107352-0023*	Pipe insulation fitting - Basement-new side west	Gray Fibrous Heterogeneous	15%	Min. Wool	45%	Non-fibrous (other)	**40%**	**Chrysotile**
NS-18 *261107352-0024*	12"x12" Gray floor tile - 2nd Floor-new side-elec office	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**	

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Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

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Received:	10/19/11 7:45 PM
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Analysis Date:	10/20/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NS-19 *261107352-0025*	Mastic associated w/sample # NS-18 (black) - 2nd Floor-new side-elec office	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**	
NS-20 *261107352-0026*	2'x4' Ceiling tile - white - 2nd Floor-new side elec office	White Fibrous Heterogeneous	30% 50%	Cellulose Min. Wool	20%	Non-fibrous (other)	**None Detected**	
NS-21 *261107352-0027*	Window glaze-white - 3rd Floor-SE corner new side	White Non-Fibrous Homogeneous	5%	Wollastonite	95%	Non-fibrous (other)	**None Detected**	
NS-22 *261107352-0028*	Window glaze-white - 3rd Floor-SE corner new side	White Non-Fibrous Homogeneous			98%	Non-fibrous (other)	**2%**	**Chrysotile**
NS-23 *261107352-0029*	Window glaze-white - 3rd Floor-SE corner new side	White Non-Fibrous Heterogeneous			98%	Non-fibrous (other)	**2%**	**Chrysotile**
NS-24 *261107352-0030*	Pipe insulation - 3rd Floor-new side b.f.w.p.	White Fibrous Heterogeneous			65%	Non-fibrous (other)	**5%** **30%**	**Chrysotile** **Amosite**

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Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc08683G$420.
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EMSL Order: 261107352

EMSL Proj:
Analysis Date: 10/20/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NS-25 *261107352-0031*	Pipe insulation - 3rd Floor-new side b.f.w.p.	Gray Fibrous Heterogeneous			65%	Non-fibrous (other)	**5%**	**Chrysotile**
							30%	**Amosite**
NS-26 *261107352-0032*	Pipe insulation - 3rd Floor-new side b.f.w.p.	White Fibrous Heterogeneous			60%	Non-fibrous (other)	**5%**	**Chrysotile**
							35%	**Amosite**
NS-27 *261107352-0033*	Pipe insulation - 3rd Floor-boiler #6 steam supply	Gray Fibrous Heterogeneous			65%	Non-fibrous (other)	**5%**	**Chrysotile**
							30%	**Amosite**
NS-28 *261107352-0034*	Pipe insulation fitting - 3rd Floor-boiler #6 steam supply	Gray Fibrous Heterogeneous	10%	Cellulose	65%	Non-fibrous (other)	**15%**	**Chrysotile**
							10%	**Amosite**
NS-29 *261107352-0035*	Pipe insulation - 4th Floor-boiler # 5 steam supply	Gray Fibrous Heterogeneous	10%	Cellulose	55%	Non-fibrous (other)	**5%**	**Chrysotile**
							30%	**Amosite**
NS-30 *261107352-0036*	Pipe insulation fitting - 4th Floor-boiler # 5 steam supply	Gray Fibrous Heterogeneous	10%	Cellulose	30%	Non-fibrous (other)	**60%**	**Chrysotile**

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Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc08683G$420.
Received: 10/19/11 7:45 PM
EMSL Order: 261107352

EMSL Proj:
Analysis Date: 10/20/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NS-31 *261107352-0037*	Pipe insulation - 4th Floor-boiler feed water	Gray Fibrous Heterogeneous	15%	Cellulose	50%	Non-fibrous (other)	**5%** **30%**	**Chrysotile** **Amosite**
NS-32 *261107352-0038*	Pipe insulation fitting - 4th Floor-boiler feed water	Gray Fibrous Heterogeneous	20%	Cellulose	40%	Non-fibrous (other)	**40%**	**Chrysotile**
NS-33 *261107352-0039*	Pipe insulation - 4th Floor-new side feed water	Gray Non-Fibrous Heterogeneous			85%	Non-fibrous (other)	**15%**	**Amosite**
NS-34 *261107352-0040*	Pipe insulation fitting - 4th Floor-new side feed water	Gray Fibrous Heterogeneous	15%	Min. Wool	45%	Non-fibrous (other)	**40%**	**Chrysotile**
NS-35 *261107352-0041*	Pipe insulation - 4th Floor-south "14"	Gray Fibrous Heterogeneous	15%	Min. Wool	45%	Non-fibrous (other)	**40%**	**Chrysotile**
NS-36 *261107352-0042*	Pipe insulation fitting - 4th Floor-south "14"	Gray Fibrous Heterogeneous	20% 10%	Min. Wool Cellulose	30%	Non-fibrous (other)	**40%**	**Chrysotile**
NS-37 *261107352-0043*	Pipe insulation - 4th Floor-center "14"	Gray Fibrous Heterogeneous	15%	Min. Wool	50%	Non-fibrous (other)	**5%** **30%**	**Chrysotile** **Amosite**

Initial report from 10/20/2011 15:31:18

Analyst(s)

Alice Hillegass (10)
Dahlia Zyhowski (50)

Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc08683G$420.
Received: 10/19/11 7:45 PM
EMSL Order: 261107352

EMSL Proj:
Analysis Date: 10/20/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NS-38 *261107352-0044*	Pipe insulation fitting - 4th Floor-center "14"	Gray Fibrous Heterogeneous	15% 10%	Min. Wool Cellulose	35%	Non-fibrous (other)	**40%**	**Chrysotile**
NS-39 *261107352-0045*	Pipe insulation - 4th Floor-south "heater"	Gray Fibrous Heterogeneous	10% 10%	Min. Wool Cellulose	45%	Non-fibrous (other)	**5% 30%**	**Chrysotile Amosite**
NS-40 *261107352-0046*	Pipe insulation fitting - 4th Floor-south "heater"	Gray Fibrous Heterogeneous	15% 10%	Min. Wool Cellulose	40%	Non-fibrous (other)	**30% 5%**	**Chrysotile Amosite**
NS-41 *261107352-0047*	Pipe insulation - 4th Floor-center "heater"	Gray Fibrous Heterogeneous	5% 20%	Cellulose Min. Wool	50%	Non-fibrous (other)	**5% 20%**	**Chrysotile Amosite**
NS-42 *261107352-0048*	Pipe insulation fitting - 4th Floor-center "heater"	Gray Fibrous Heterogeneous	20% 10%	Min. Wool Cellulose	25%	Non-fibrous (other)	**40% 5%**	**Chrysotile Amosite**
NS-43 *261107352-0049*	Pipe insulation - 5th Floor-"25k"	Gray Fibrous Heterogeneous	10%	Cellulose	70%	Non-fibrous (other)	**5% 15%**	**Chrysotile Amosite**
NS-44 *261107352-0050*	Pipe insulation fitting - 5th Floor-"25k"	Gray Fibrous Heterogeneous	10%	Cellulose	70%	Non-fibrous (other)	**5% 15%**	**Chrysotile Amosite**

Initial report from 10/20/2011 15:31:18

Analyst(s)

Alice Hillegass (10)
Dahlia Zyhowski (50)

Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

EMSL Analytical, Inc.
2225 W. Hubbard Street, Chicago, IL 60612
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc08683G$420.
Received: 10/19/11 7:45 PM
EMSL Order: 261107352

EMSL Proj:
Analysis Date: 10/20/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
NS-45 *261107352-0051*	Boiler door gasket-brown - 5th Floor-boiler #6						**Not Submitted**	
NS-46 *261107352-0052*	Component/stack flashing-black - New side-roof	Black Non-Fibrous Heterogeneous	5%	Cellulose	95%	Non-fibrous (other)	**None Detected**	
NS-47 *261107352-0053*	Component/stack flashing-black - New side-roof	Black Non-Fibrous Heterogeneous	5%	Cellulose	95%	Non-fibrous (other)	**None Detected**	
NS-48 *261107352-0054*	Component/stack flashing-black - New side-roof	Black Non-Fibrous Heterogeneous	5%	Cellulose	95%	Non-fibrous (other)	**None Detected**	
NS-49 *261107352-0055*	Boiler #6 demper/connector - 4th Floor-boiler # 6	White/Black/Silver Fibrous Heterogeneous	50%	Glass	50%	Non-fibrous (other)	**None Detected**	
NS-50 *261107352-0056*	Gasket/rope material - 4th Floor-boiler # 5	Gray Fibrous Homogeneous			20%	Non-fibrous (other)	**80%**	**Chrysotile**

Initial report from 10/20/2011 15:31:18

Analyst(s)

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Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900

Project: **Building 11 Asbestos Survey Naval Station Great Lakes A111305-104**

Customer ID: ENCG51
Customer PO: cc08683G$420.
Received: 10/19/11 7:45 PM
EMSL Order: 261107352

EMSL Proj:
Analysis Date: 10/20/2011

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

			Non-Asbestos				Asbestos	
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**%**	**Type**
B-05		Cream	95%	Min. Wool	5%	Non-fibrous (other)	**None Detected**	
261107352-0057		Fibrous Heterogeneous						
			Two samples submitted labeled 'B-05'.					
No label-1		White	10%	Min. Wool	65%	Non-fibrous (other)	**5%**	**Chrysotile**
261107352-0058		Fibrous Heterogeneous					**20%**	**Amosite**
			Sample bag has no sample number.					
No label-2		White	10%	Min. Wool	65%	Non-fibrous (other)	**5%**	**Chrysotile**
261107352-0059		Fibrous Heterogeneous					**20%**	**Amosite**
			Sample bag has no sample number.					

Initial report from 10/20/2011 15:31:18

Analyst(s)

Alice Hillegass (10)
Dahlia Zyhowski (50)

Andrei Poluchowicz,
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0, TX 300289

THIS IS THE LAST PAGE OF THE REPORT.

261107352

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/19/11
ECG Project No.: A11 1305 -104

Chain of Custody Information

Inspector Taking Samples:
Person Delivering at Lab:
Person Receiving at Lab: 10.19.11 7:45
WALK IN
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Szeredy@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
B-01		Boiler #4 - Mortar/Brick	Main floor - inside boiler #4	
B-02		↓	↓	
B-03				
B-04		Boiler #4 - Boiler access door insulation	Main floor - inside boiler #4	
B-05		↓	↓	
B-06				
NS-01		Boiler #5 - Boiler access door insulation	Main floor - inside boiler #5	
NS-02		↓	↓	
NS-03				
NS-04		Boiler #5 - Mortar/Brick	Main floor - inside boiler #5	
NS-05		↓	↓	
NS-06				

Comments: B = Boiler #4 area NS = New Side

261107352

7352

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/19/11
ECG Project No.: A111305-104

Chain of Custody Information
Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: SZeredy@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NS-07		12"x12" floor tile - white w/ colored specs	Main floor - New side bathroom	
NS-08		↓	↓	
NS-09				
NS-10		Pipe insulation fitting	East side of Boiler #6 - Main floor	
NS-11		2'x4' ceiling tile - white	Main floor - New side kitchen	
NS-12		Drywall - white	↓	
NS-13		Drywall Compound - white		
NS-14		Pipe insulation fitting	Main floor - New side west	
NS-15		Pipe insulation fitting	"	
NS-16		Pipe insulation	Main floor New side west	
NS-17		Pipe insulation fitting	Basement - New side west	
NS-18		12"x12" gray floor tile	2nd floor - New side - elec office	
NS-19		mastic associated w/ sample # NS-18 (Black)	↓	

Comments: NS = New Side

261107352

7352

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/19/11
ECG Project No.: A11 1305 - 104

Chain of Custody Information
Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Sszeredy@pnvcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NS-20		2'x4' ceiling tile - white	2nd floor - New side Elec office	
NS-21		Window Glaze - white	3rd floor - SE corner new side	
NS-22		↓	↓	
NS-23				
NS-24		Pipe insulation	3rd floor - New side B.F.W.P.	
NS-25		↓	↓	
NS-26				
NS-27		Pipe insulation	3rd floor - Boiler #6 Steam supply	
NS-28		Pipe insulation fitting	3rd floor - "	
NS-29		Pipe insulation	4th floor - Boiler #5 steam supply	
NS-30		Pipe insulation fitting	"	
NS-31		Pipe insulation	4th floor - Boiler feed water	
NS-32		Pipe insulation fitting	"	

Comments: NS = New Side

261107352

7352

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/19/11
ECG Project No.: AII 1305-104

Chain of Custody Information
Inspector Taking Samples: [illegible]
Person Delivering at Lab: [illegible]
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Sszeredy@envcg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NS-33		Pipe insulation	4th floor - new side feedwater	
NS-34		Pipe insulation fitting	"	
NS-35		Pipe insulation	4th floor - South "14"	
NS-36		Pipe insulation fitting	"	
NS-37		Pipe insulation	4th floor - center "14"	
NS-38		Pipe insulation fitting	"	
NS-39		Pipe insulation	4th floor - South "heater"	
NS-40		Pipe insulation fitting	"	
NS-41		Pipe insulation	4th floor - center "heater"	
NS-42		Pipe insulation fitting	"	
NS-43		Pipe insulation	5th floor - "25k"	
NS-44		Pipe insulation fitting	5th floor - "25k"	
NS-45		Boiler door gasket - Brown	5th floor - Boiler #6	

Comments: NS = New Side

261107352

7352

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930

Asbestos Bulk Sampling Log and Chain of Custody Form

Project Name: Building 11 Asbestos Survey
Project Location: Naval Station Great Lakes
Date of Collection: 10/19/11
ECG Project No.: A11 1305 -104

Chain of Custody Information
Inspector Taking Samples: LL
Person Delivering at Lab: LL
Person Receiving at Lab:
Lab Technician Analyzing:
Date of Analysis:

Turn Around: ☐ Immediate ☐ 4 Hrs ☐ 8 Hrs ☐ 12 Hrs ☒ 24 Hrs ☐ 48 Hrs ☐ 72 Hrs ☐ 5 Days

Analysis Requested: ☒ PLM ☐ TEM ☐ Other

Report Results: ☐ ECG Fax ☒ E-mail: Sszeredy@envecg.com ☐ Other:

Sample No.	Lab No.	Material Description	Location Sampled	Result
NS-46		Component/Stack flashing - Black	New side - Roof	
NS-47		↓	↓	
NS-48				
NS-49		Boiler #6 Damper/connector	4th floor - Boiler #6	
NS-50		Gasket/Rope material	4th floor - Boiler #5	

Comments: NS = New Side

261107352

Lead-Based Paint Laboratory Analytical Results

EMSL Analytical, Inc.
2444 W. George Street, Chicago, IL 60618
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900
Project: **Great Lakes Naval Phase 5**

Customer ID: ENCG51
Customer PO:
Received: 03/17/11 8:00 AM
EMSL Order: 261101512

EMSL Proj:

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
SW1-PB1	*0001*		3/17/2011	6.5 % wt
	Site: Tan paint-SW boiler area, bottom of stairs			
SW1-PB2	*0002*		3/17/2011	0.35 % wt
	Site: White paint, SW boiler area, wells-1st flr			
SW1-PB3	*0003*		3/17/2011	4.5 % wt
	Site: Yellow paint-SW boiler area, stair rails-1st flr			
SW1-PB4	*0004*		3/17/2011	29 % wt
	Site: Green paint-SW boiler area, pillars-1st floor			
NW1-PB1	*0005*		3/17/2011	1.2 % wt
	Site: Silver paint-walls-NW boiler 1st flr			
NW1-PB2	*0006*		3/17/2011	14 % wt
	Site: Yellow paint-NW boiler area-1st flr-Rail			
NW1-PB3	*0007*		3/17/2011	<0.055 % wt
	Site: Red paint-NW Boiler area-under equip			
NWM-PB1	*0008*		3/17/2011	<0.019 % wt
	Site: Silver paint-NW boiler mezzanine-wall			
NE1-PB1	*0009*		3/17/2011	<0.017 % wt
	Site: Blue paint-NE boiler rm 1st flr			
NE1-PB2	*0010*		3/17/2011	0.021 % wt
	Site: Silver paint-NE boiler rm-1st flr			
NEB-PB1	*0011*		3/17/2011	<0.065 % wt
	Site: White paint-NE basement area-wall/ceiling			
NE2-PB1	*0012*		3/17/2011	0.32 % wt
	Site: Red paint-NE area-3rd floor			
NEP-PB1	*0013*		3/17/2011	Insufficient Weight % wt
	Site: Silver paint-NW area-4th floor ceiling			

Initial report from 03/17/2011 14:54:56

Lisa M. Odeshoo

Lisa Odeshoo, Lead Lab Manager
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied.

Samples analyzed by EMSL Analytical, Inc. Chicago, IL AIHA-LAP, LLC--ELLAP Lab 102992

EMSL Analytical, Inc.
2444 W. George Street, Chicago, IL 60618
Phone: (773) 313-0099 Fax: (773) 313-0139 Email: chicagolab@emsl.com

Attn: **Luke Nienhaus**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Fax: (312) 663-3930 Phone: (312) 663-3900
Project: **Great Lakes Naval Phase 5**

Customer ID: ENCG51
Customer PO:
Received: 03/17/11 8:00 AM
EMSL Order: 261101512

EMSL Proj:

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
OFF-PB1	*0014*		3/17/2011	0.24 % wt
	Site: Brown paint-office stairway window frames			
OFF-PB2	*0015*		3/17/2011	0.19 % wt
	Site: Gray paint-office stairway components			
OFF3-PB1	*0016*		3/17/2011	0.096 % wt
	Site: Light blue green-3rd floor office hallway wall			
OFF3-PB2	*0017*		3/17/2011	3.5 % wt
	Site: Green paint-3rd floor machine shop			
ROOF-PB1	*0018*		3/17/2011	<0.071 % wt
	Site: Yellow paint-roof exterior railing			
ROOF-PB2	*0019*		3/17/2011	<0.010 % wt
	Site: Green paint-roof exterior beams			
OFF2-PB1	*0020*		3/17/2011	16 % wt
	Site: Blue paint-exterior window-2nd floor conf room			

A quality control sample result for these samples did not meet acceptance criteria.

Initial report from 03/17/2011 14:54:56

Lisa M. Odeshoo

Lisa Odeshoo, Lead Lab Manager
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied.

Samples analyzed by EMSL Analytical, Inc. Chicago, IL AIHA-LAP, LLC--ELLAP Lab 102992

261101512

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 261101512

EMSL ANALYTICAL, INC.
2444 WEST GEORGE ST.
CHICAGO, IL 60618
PHONE: 773-313-0099
FAX:

Company: Environmental Consulting Group, Inc.
Street: 411 S. Wells #700
City: Chicago **State/Province:** IL **Zip/Postal Code:** 60607 **Country:** U.S.
Report To (Name): Luke Nienhaus **Fax #:** 312 663-3880
Telephone #: 312 663-3900 **Email Address:** lnienhaus@envcg.com
Project Name/Number: Great Lakes Naval - Phase 5 **EMSL Rep:** Lisa Parker
Please Provide Results: ☐ Fax ☒ Email **Purchase Order:** **U.S. State Samples Taken:** IL

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

Turnaround Time (TAT) Options* - Please Check

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

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

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ mg/cm² ☒ % by wt.	SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	☒
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES	0.5 µg/filter	☐
Wipe* ☐ ASTM ☐ non ASTM *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B/7420	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	0.5 µg/wipe	☐
TCLP	SW846-1311/7420/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7421	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	☐
Wastewater	SM3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	☐
Drinking Water	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐

Other: **Preservation Method (Water):**

Name of Sampler: Luke Nienhaus **Signature of Sampler:** [signature]

Sample #	Location	Volume/Area	Date/Time Sampled
SW1-Pb1	Tan paint - SW Boiler area, bottom of stairs 1st floor	1 in²	3/15/11
SW1-Pb2	White paint - SW Boiler area, walls - 1st floor	↓	↓
SW1-Pb3	yellow paint - SW Boiler area, stair rails - 1st floor		
SW1-Pb4	Green paint - SW Boiler area, pillars - 1st floor		
NW1-Pb1	Silver paint - walls - NW Boiler 1st floor		
NW1-Pb2	yellow paint - NW Boiler area 1st floor - Rails		

Client Sample #'s - **Total # of Samples:** 20

Relinquished (Client):	[signature]	**Date:**	3/16/11	**Time:**	
Received (Lab):	[signature]	**Date:**	3/17/11	**Time:**	8:00am Drop Box

Comments:

SAMPLES ACCEPTED FOR ANALYSIS
BY EMSL ANALYTICAL, INC.
CHICAGO, IL

261101512

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: -1512

EMSL ANALYTICAL, INC.
2444 WEST GEORGE ST.
CHICAGO, IL 60618
PHONE: 773-313-0099
FAX:

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

Sample #	Location	Volume/Area	Date/Time Sampled
NW1-Pb3	Red Paint - NW Boiler area - under equipment	1 in²	3/15/11
NWM-Pb1	Silver Paint - NW Boiler Mezzanine - wall		
NE1-Pb1	Blue paint - NE Boiler room 1st floor - floor		
NE1-Pb2	Silver Paint - NE Boiler room 1st floor - Side of Boiler		
NEB-Pb1	White Paint - NE Basement Area - wall/ceiling		
NE2-Pb1	Red Paint - NE Areas - 3rd floor - floor		
NEP-Pb1	Silver Paint - NW Area - 4th floor ceiling		
OFF-Pb1	Brown Paint - office stairway window frames		
OFF-Pb2	Gray Paint - office stairway components		
OFF3-Pb1	Light blue green - 3rd floor office hallway wall		
OFF3-Pb2	Green paint - 3rd floor machine shop		
Roof-Pb1	Yellow paint - Roof exterior railing		
Roof-Pb2	Green paint - Roof exterior beams		
OFF2-Pb1	Blue paint - exterior window - 2nd floor conf room		

Comments/Special Instructions:

Controlled Document --- Lead (Pb) COC – R2– 1/12/2010

Laboratory Certifications

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical Inc.
225 West Hubbard Street
Chicago, IL 60618
Mr. James Hahn
Phone: 773-313-0099 Fax: 773-313-0139
E-Mail: jhahn@emsl.com
URL: http://www.emsl.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200399-0**

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

2011-04-01 through 2012-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01S (REV. 2005-05-19)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200399-0

EMSL Analytical Inc.

Chicago, IL

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

BULK ASBESTOS FIBER ANALYSIS

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

2011-04-01 through 2012-03-31

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

Sally S. Bruce

For the National Institute of Standards and Technology

National Voluntary
Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical Inc.
225 West Hubbard Street
Chicago, IL 60618
Mr. James Hahn
Phone: 773-313-0099 Fax: 773-313-0139
E-Mail: jhahn@emsl.com
URL: http://www.emsl.com

AIRBORNE ASBESTOS FIBER ANALYSIS (TEM) **NVLAP LAB CODE 200399-0**

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.

2011-04-01 through 2012-03-31
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01S (REV. 2005-05-19)

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200399-0

EMSL Analytical Inc.

Chicago, IL

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

AIRBORNE ASBESTOS FIBER ANALYSIS

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

2011-04-01 through 2012-03-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

AIHA

Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

2444 West George Street, Chicago, IL 60618

Laboratory ID: 102992

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:

LABORATORY ACCREDITATION PROGRAMS

☐	**INDUSTRIAL HYGIENE**	Accreditation Expires:
√	**ENVIRONMENTAL LEAD**	Accreditation Expires: 09/01/2012
√	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: 09/01/2012
☐	**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 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 of accreditation.

Dave Sandusky

Dave Sandusky, CIH
Chairperson, Analytical Accreditation Board

Date Issued: 09/01/2010

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
2444 West George Street, Chicago, IL 60618

Laboratory ID: 102992
Issue Date: 09/01/2010

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: 04/01/2006

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

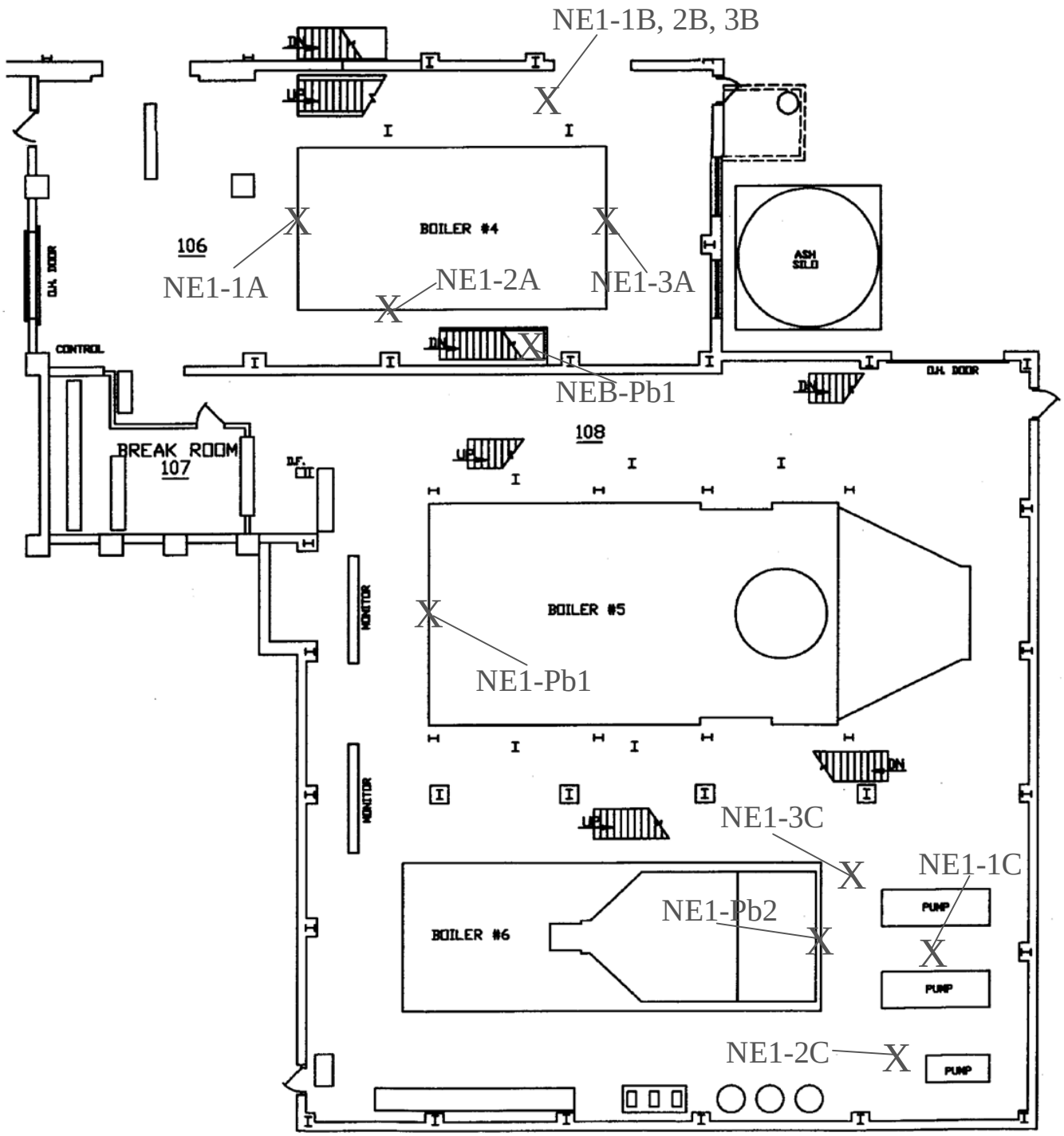
The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

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

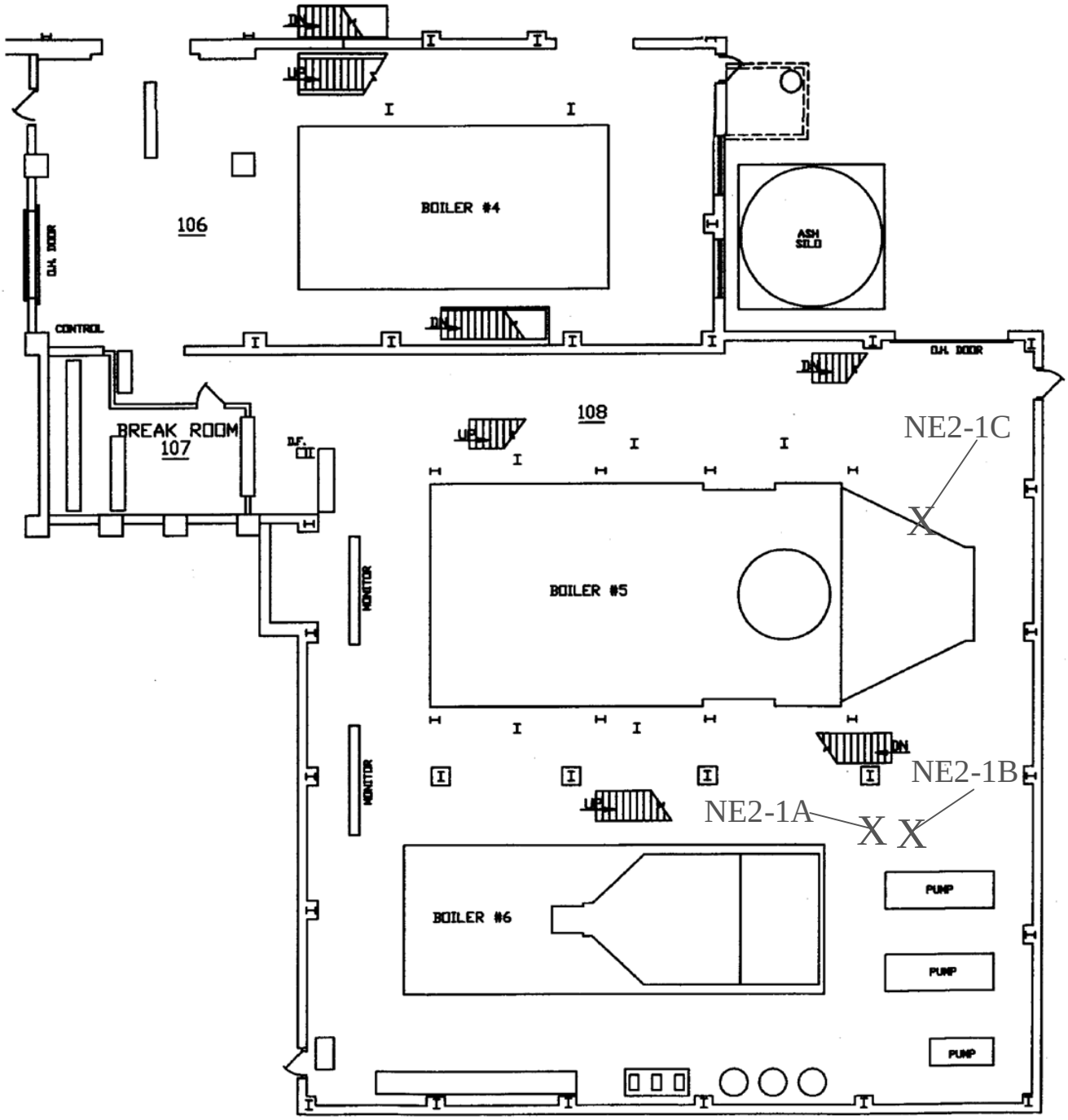
Attachment D

Building 11 Sample Location Plans

March 2011
Building 11 Sample Location Plans



Sample Location Plan - Building 11 1st Floor (Northeast Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
		Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
		Page 1 of 9		



Sample Location Plan - Building 11 2nd Floor (Northeast Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
		Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
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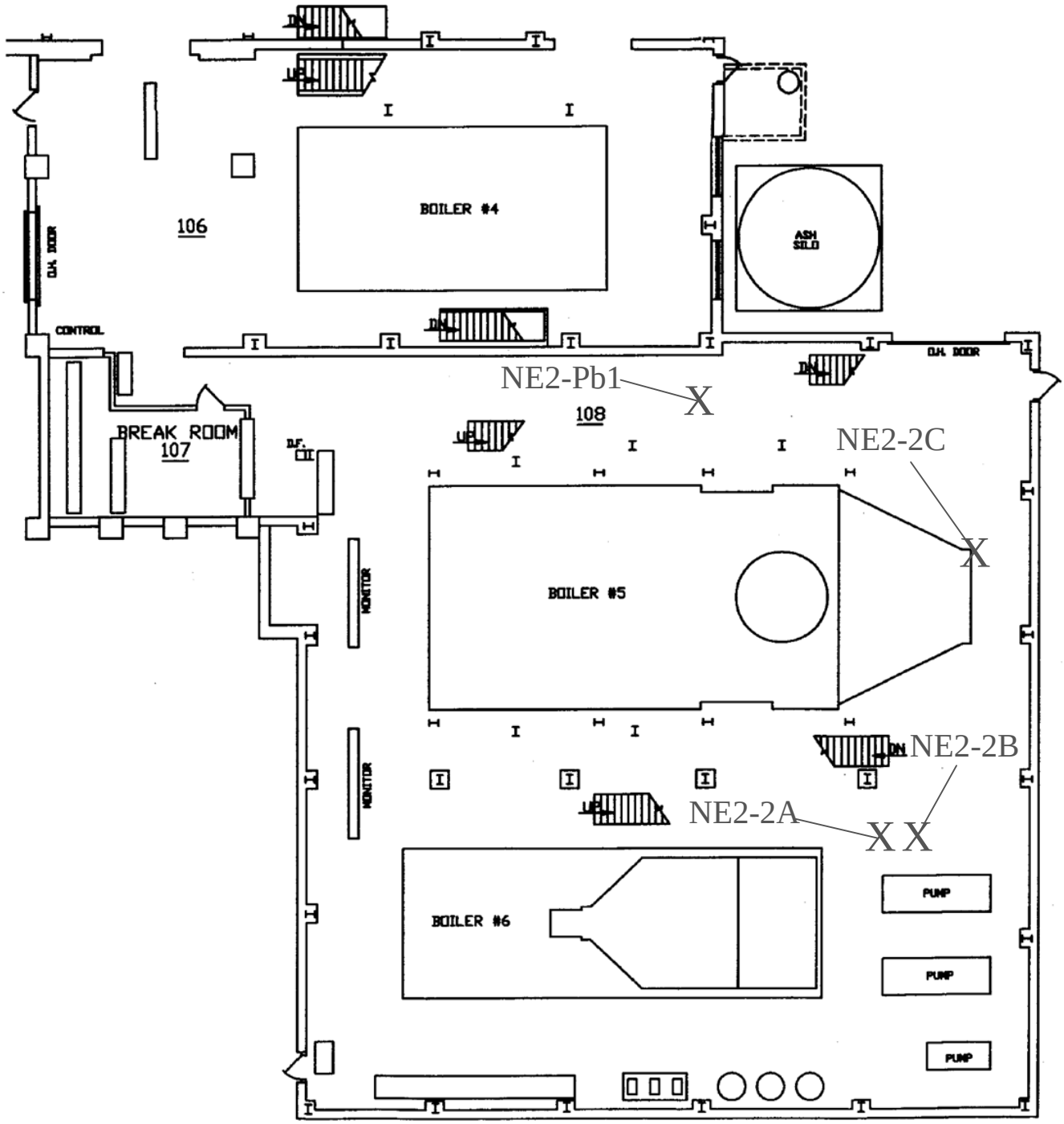
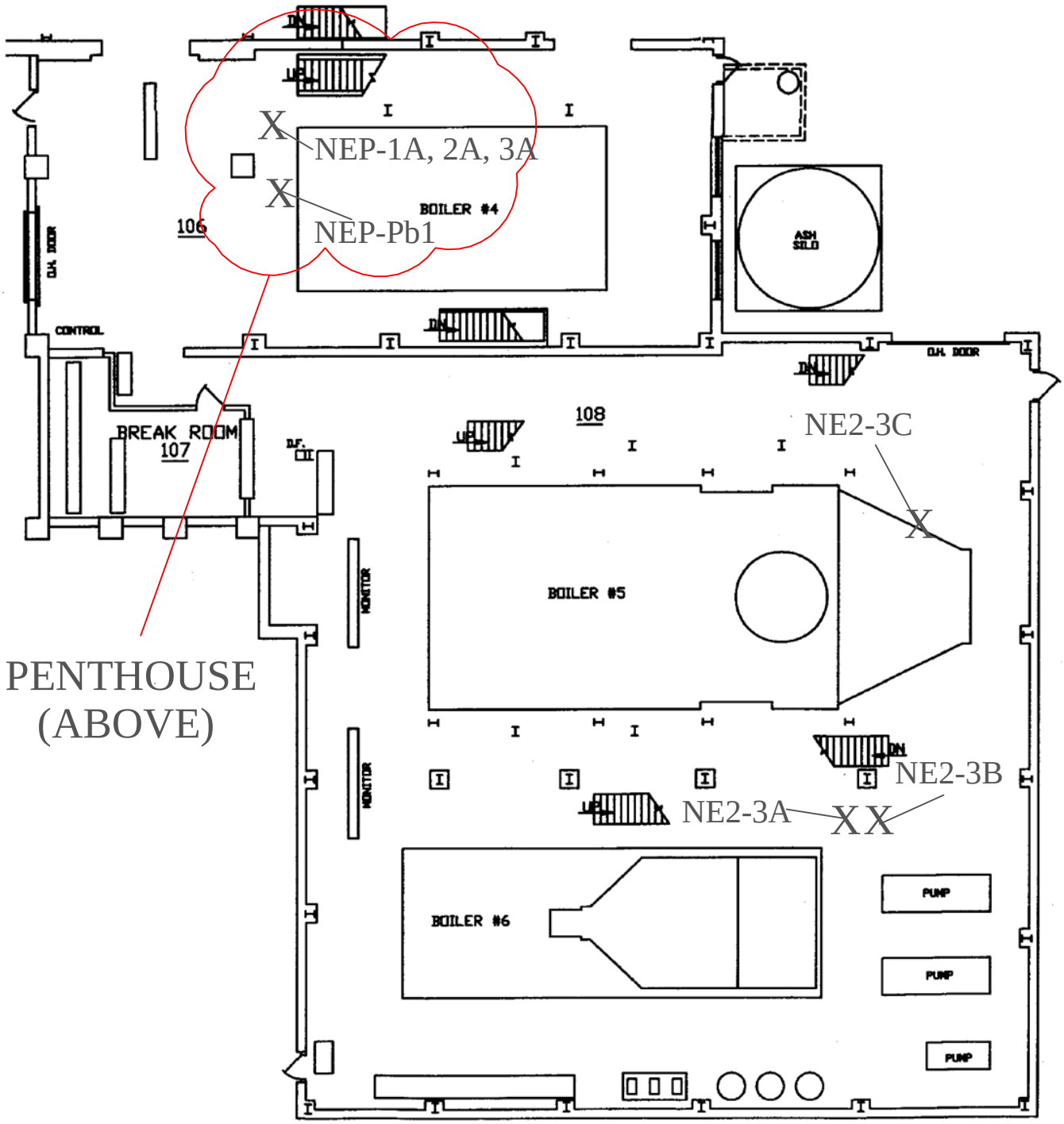
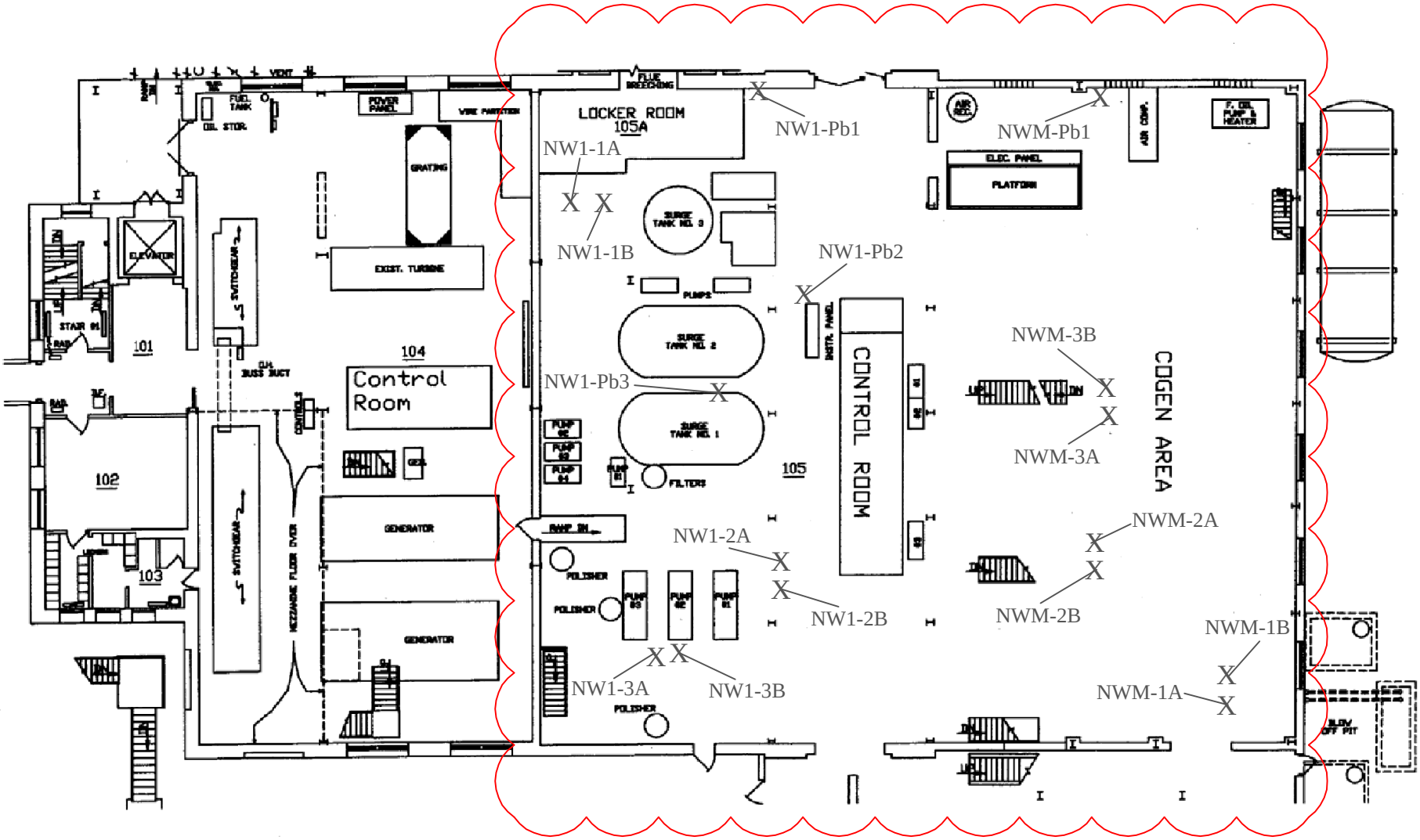


Sample Location Plan - Building 11 3rd Floor (Northeast Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
		Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
		Page 3 of 9		

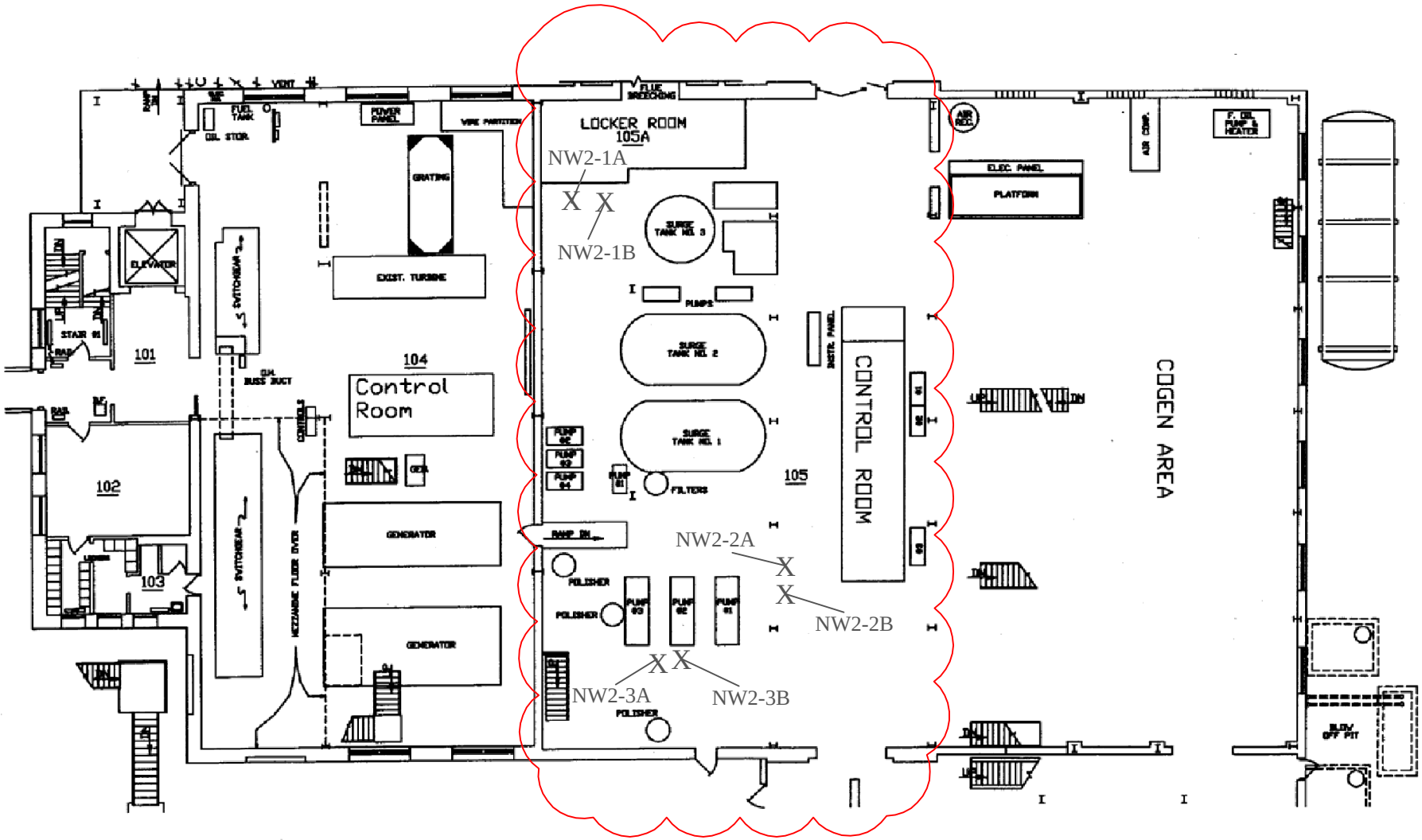


Sample Location Plan - Building 11 4th Floor (Northeast Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
		Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
		Page 4 of 9		



*Basement is located under the Northwest Section Control Room.
Tan Flooring (Samples NWB-1A&1AM, 2A&2AM, 3A&3AM) is located on west end of basement.
Dark Epoxy Flooring (Samples NWB-1B, 2B, 3B) is located on east end of basement.

Sample Location Plan - Building 11 1st Floor (Northwest Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells St., Suite 700 Chicago, Illinois 60607
		Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax:(312) 663-3930
		Page 5 of 9		



Sampe Location Plan - Building 11
2nd Floor (Northwest Section)
Phase V
Naval Station Great Lakes
Great Lakes, Illinois

Project Number: A111305-104

Date 03-25-2011

Ken Reinebach, CIH
IDPH Project Designer
License #100-10308

Drawn by: SRS

Reviewed by: MAS

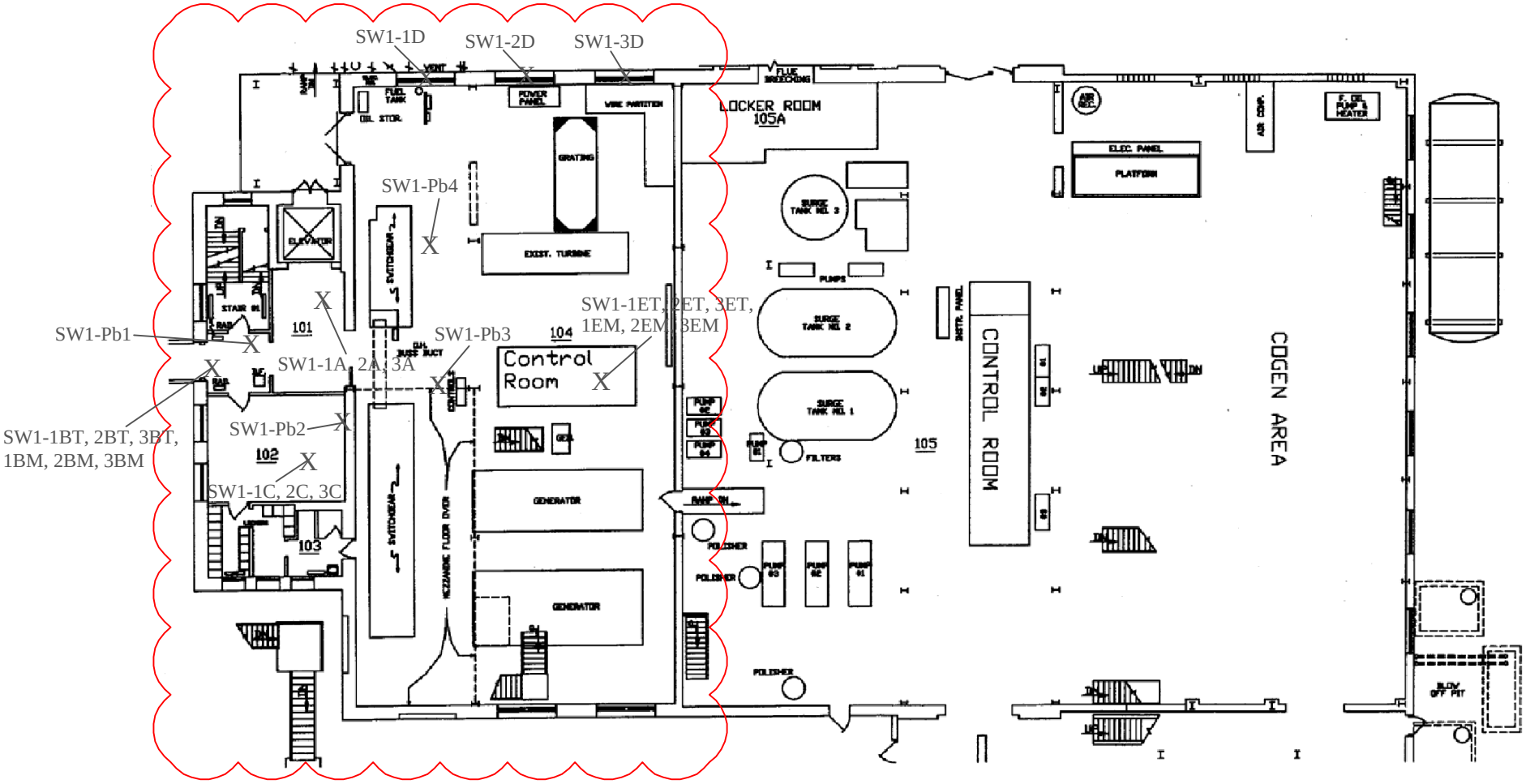
N

NOT TO SCALE

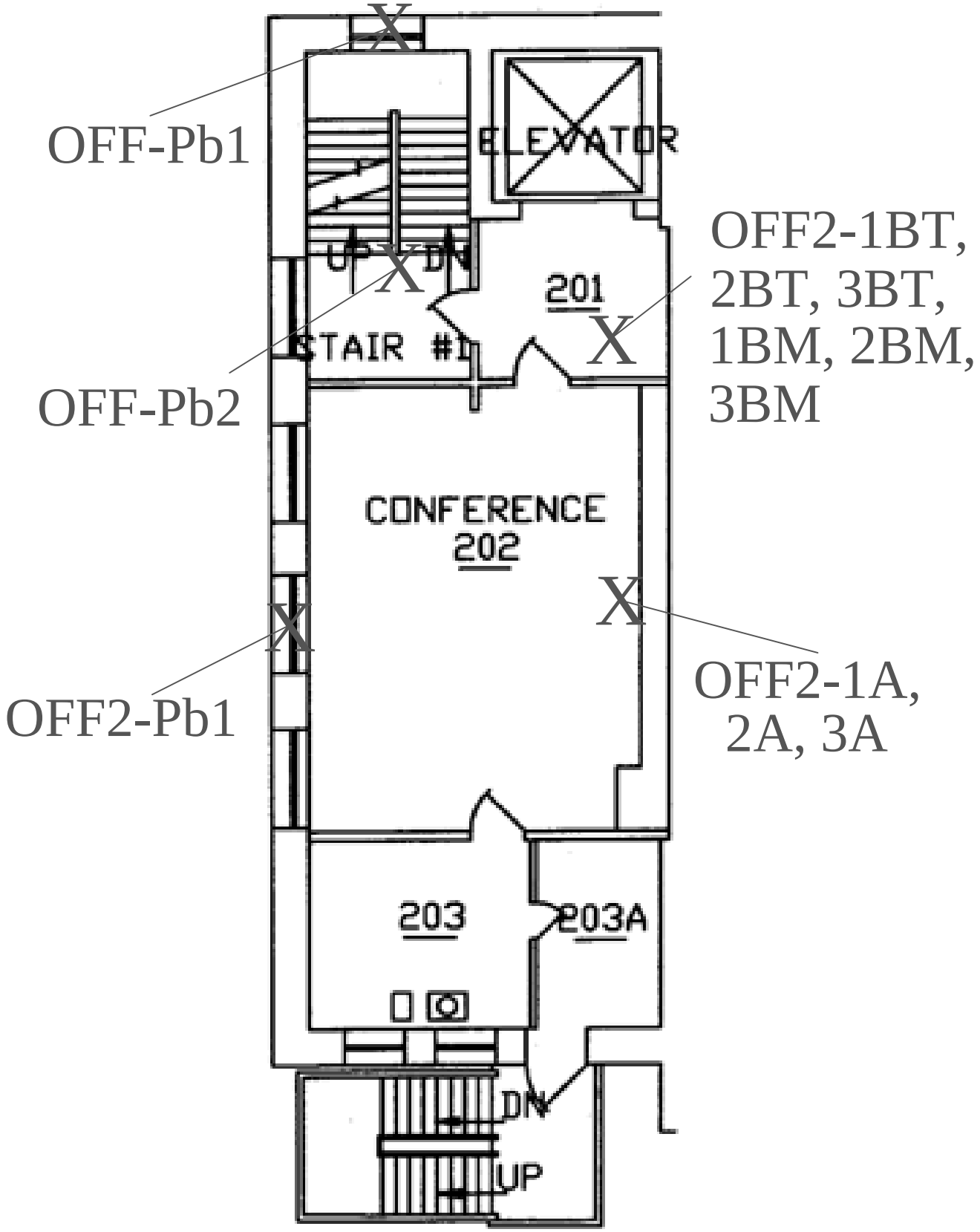
Page 6 of 9

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, Illinois 60607

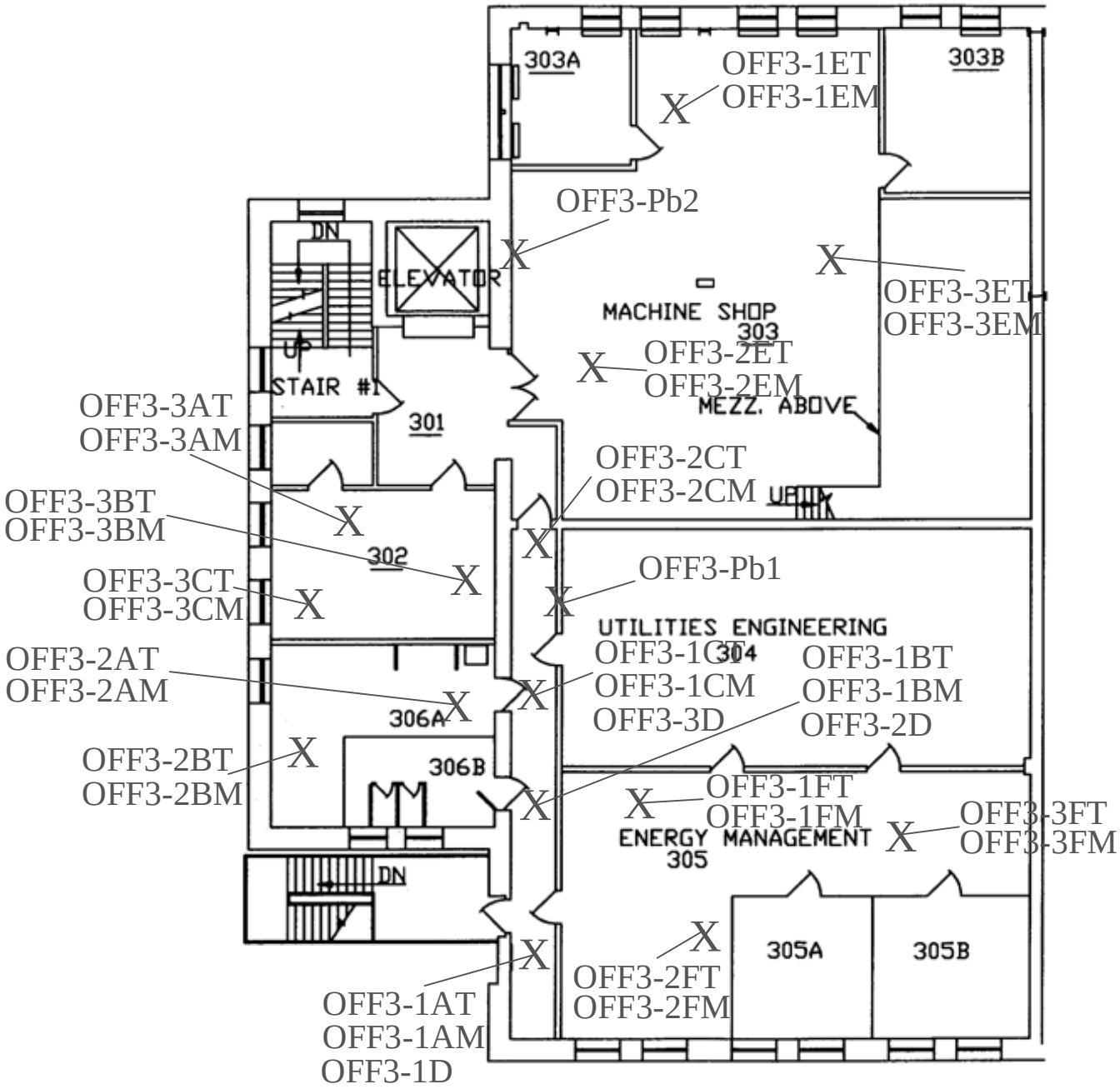
Tel: (312) 663-3900
Fax:(312) 663-3930



Sample Location Plan - Building 11 1st Floor (Southwest Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells St., Suite 700 Chicago, Illinois 60607
		Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax:(312) 663-3930
		Page 7 of 9		

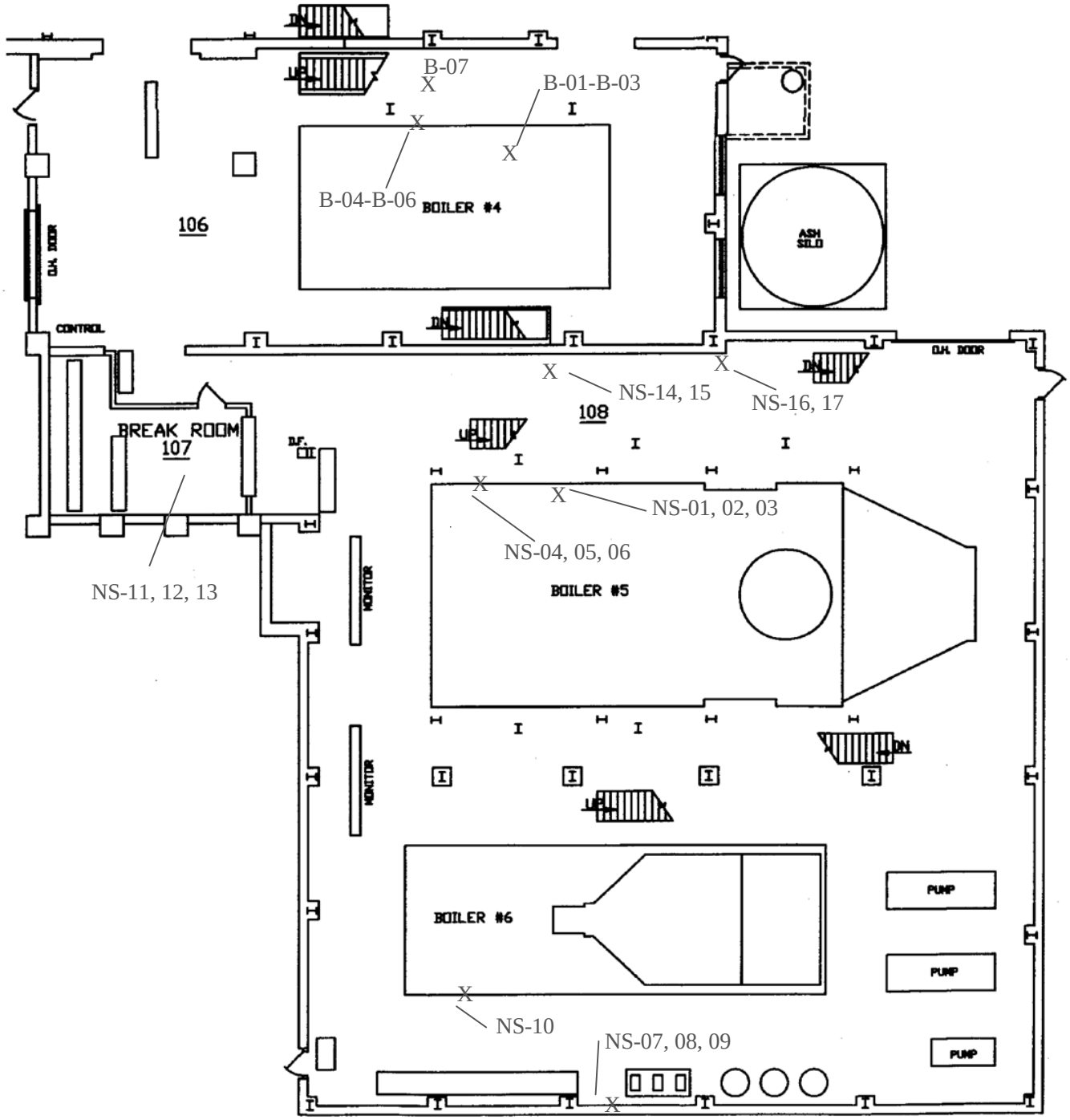


Sampe Location Plan - Building 11 2nd Floor (Southwest Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
		Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 8 of 9		

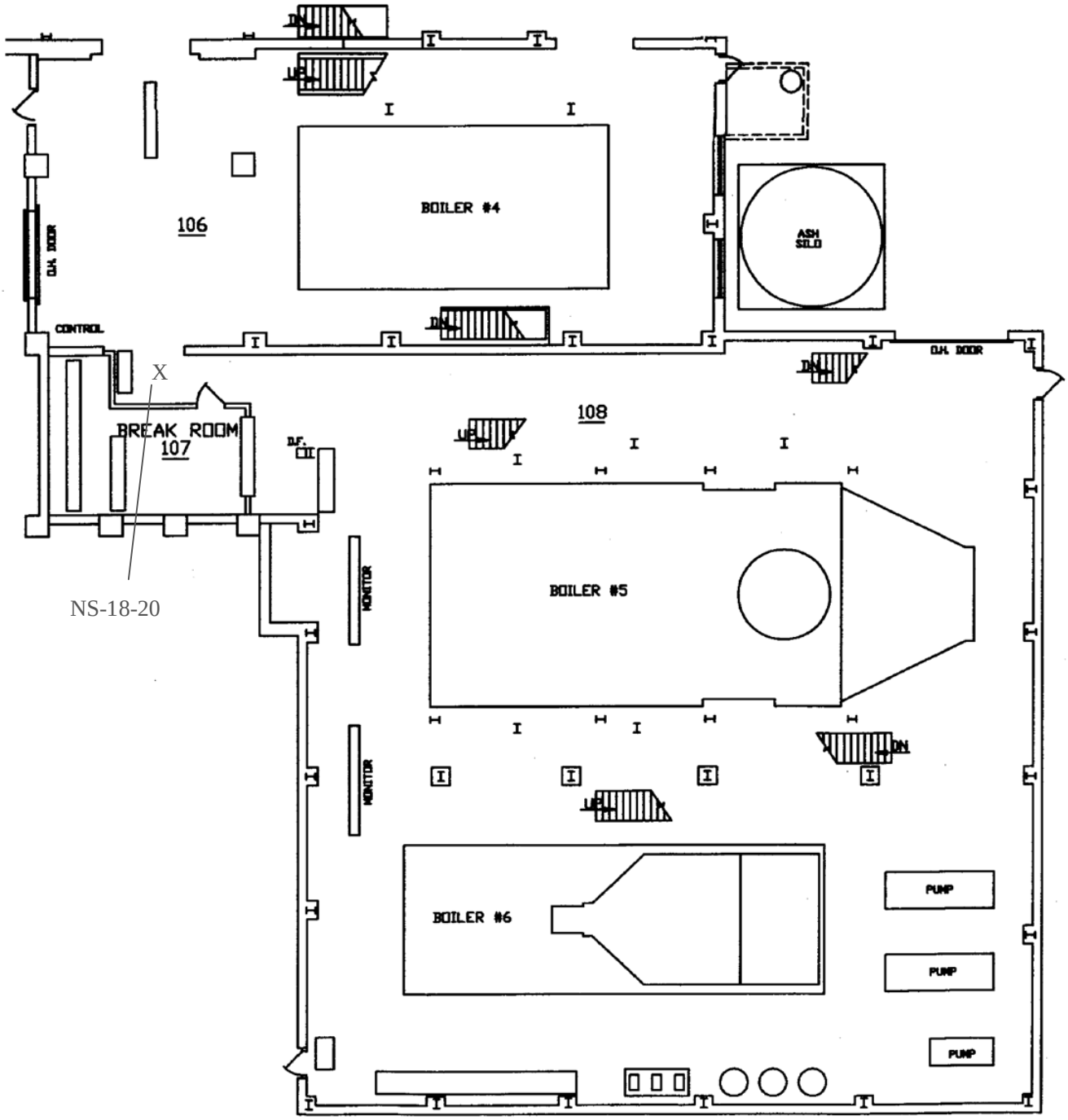


Sample Location Plan - Building 11 3rd Floor (Southwest Section) Phase V Naval Station Great Lakes Great Lakes, Illinois	Date 03-25-2011	Drawn by: SRS	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
		Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
		Page 9 of 9		

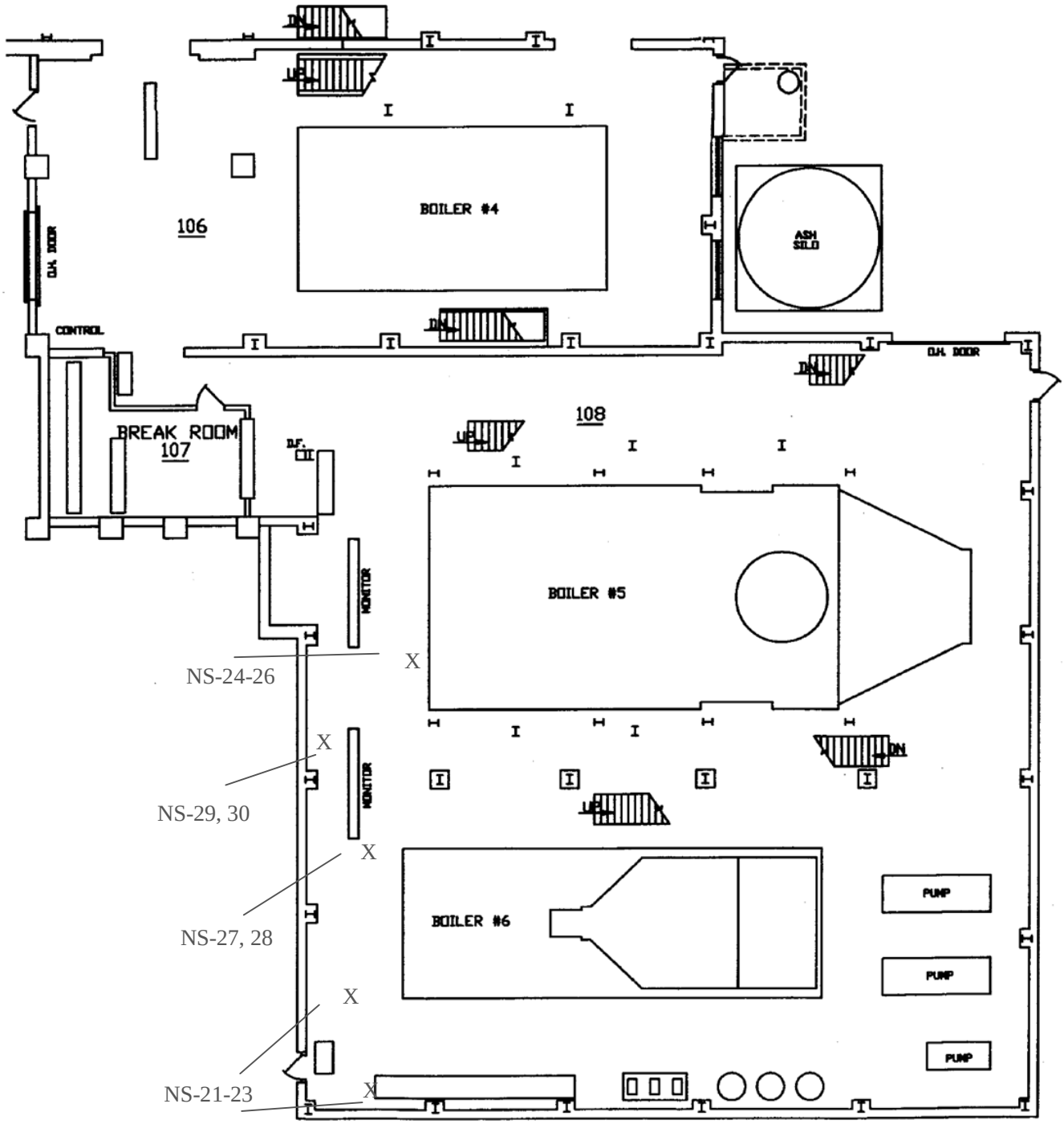
October 2011
Building 11 Sample Location Plans



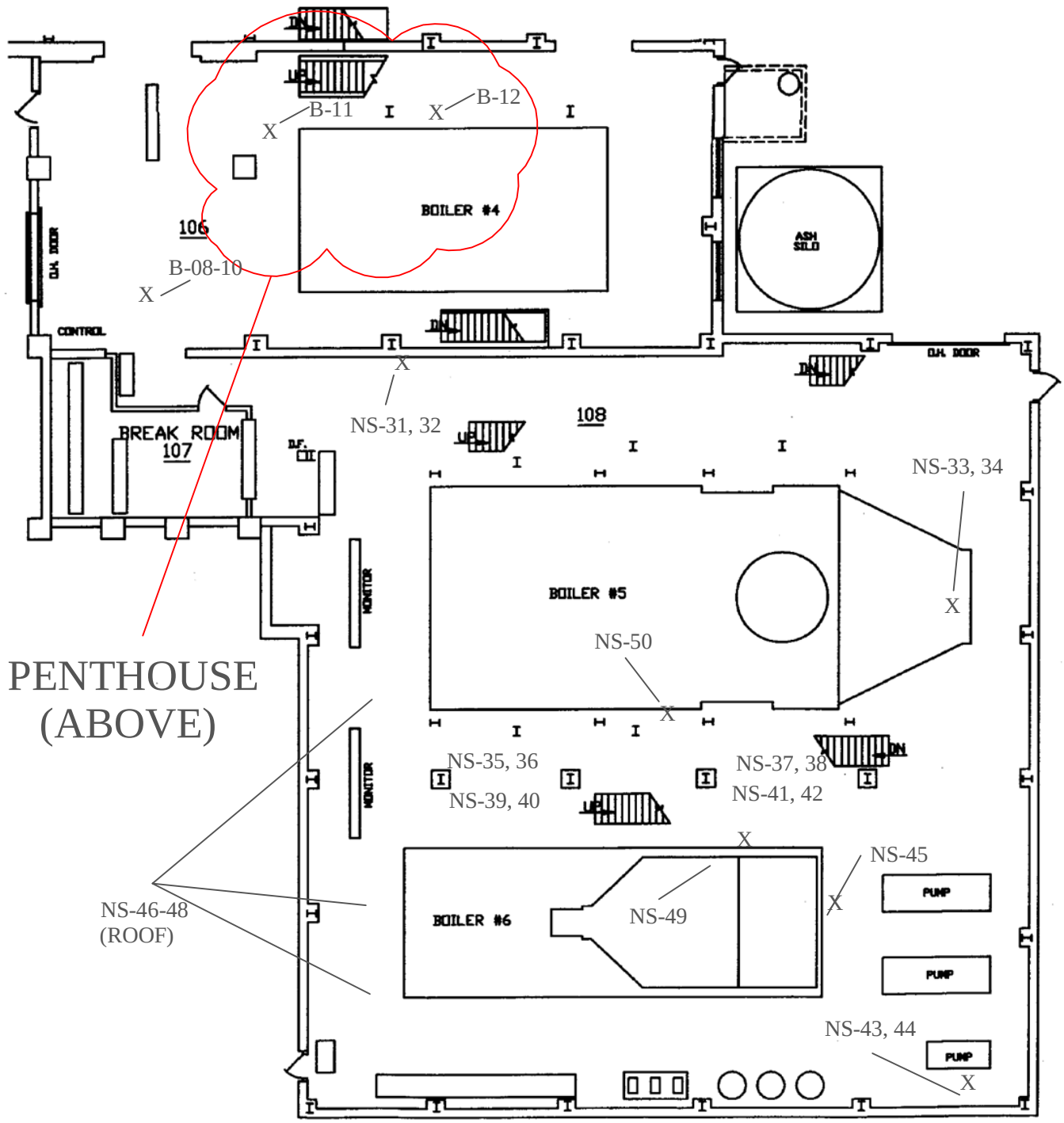
Sample Location Plan - Building 11 1st Floor/ Basement - New Side (NS) and Boiler 4 (B) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 1		



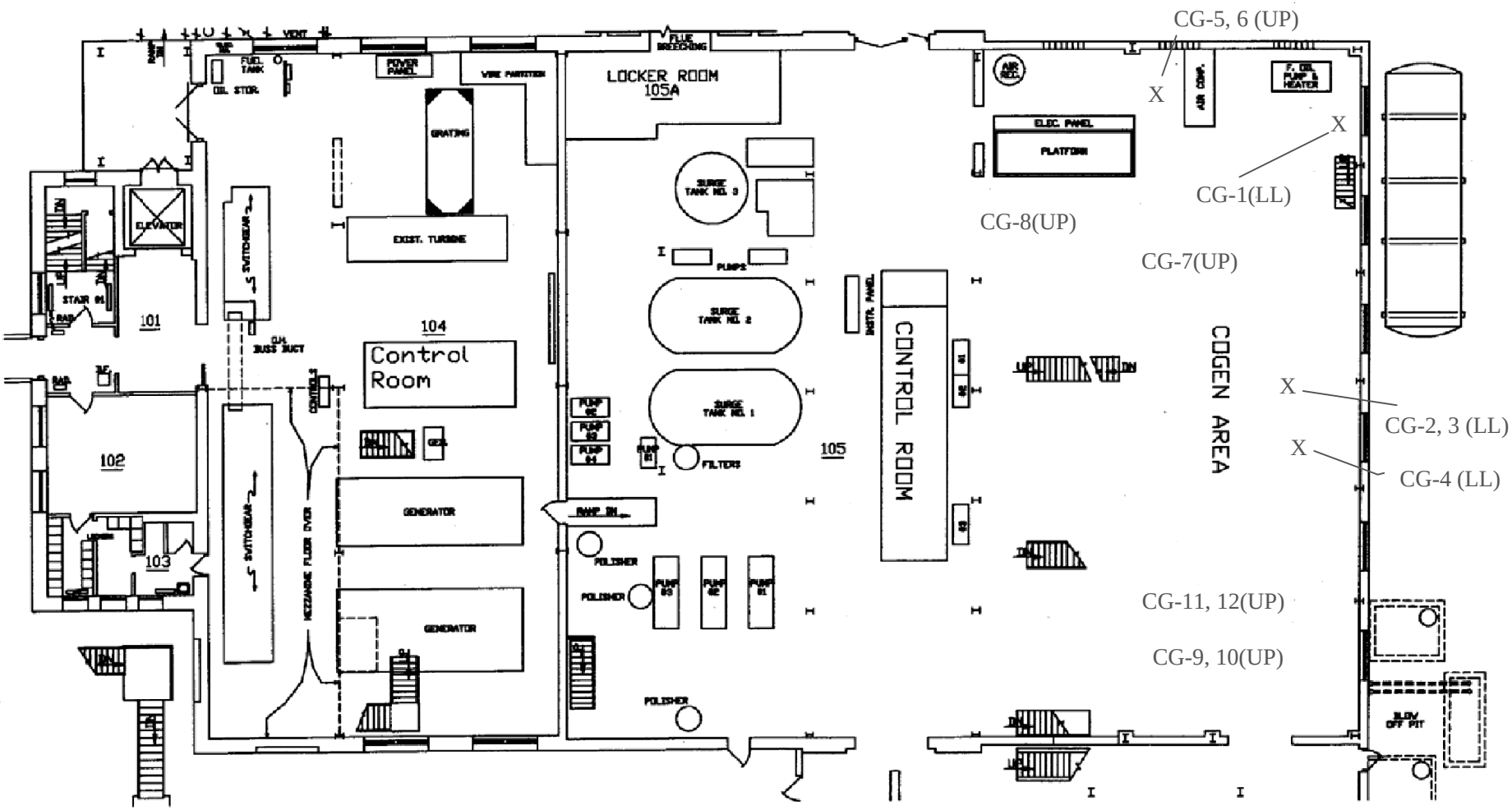
Sample Location Plan Building 11 2nd Floor - New Side (NS) and Boiler 4 (B) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 2		



Sample Location Plan - Building 11 3rd Floor - New Side (NS) and Boiler 4 (B) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 3		



Sample Location Plan - Building 11 4th Floor - New Side (NS) and Boiler 4 (B) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 4		



*Basement is located under the "Old Side" Section Control Room.

Sample Location Plan - Building 11 Lower Level (LL) and Upper Level (UP) CoGen (CG) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells St., Suite 700 Chicago, Illinois 60607
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax:(312) 663-3930
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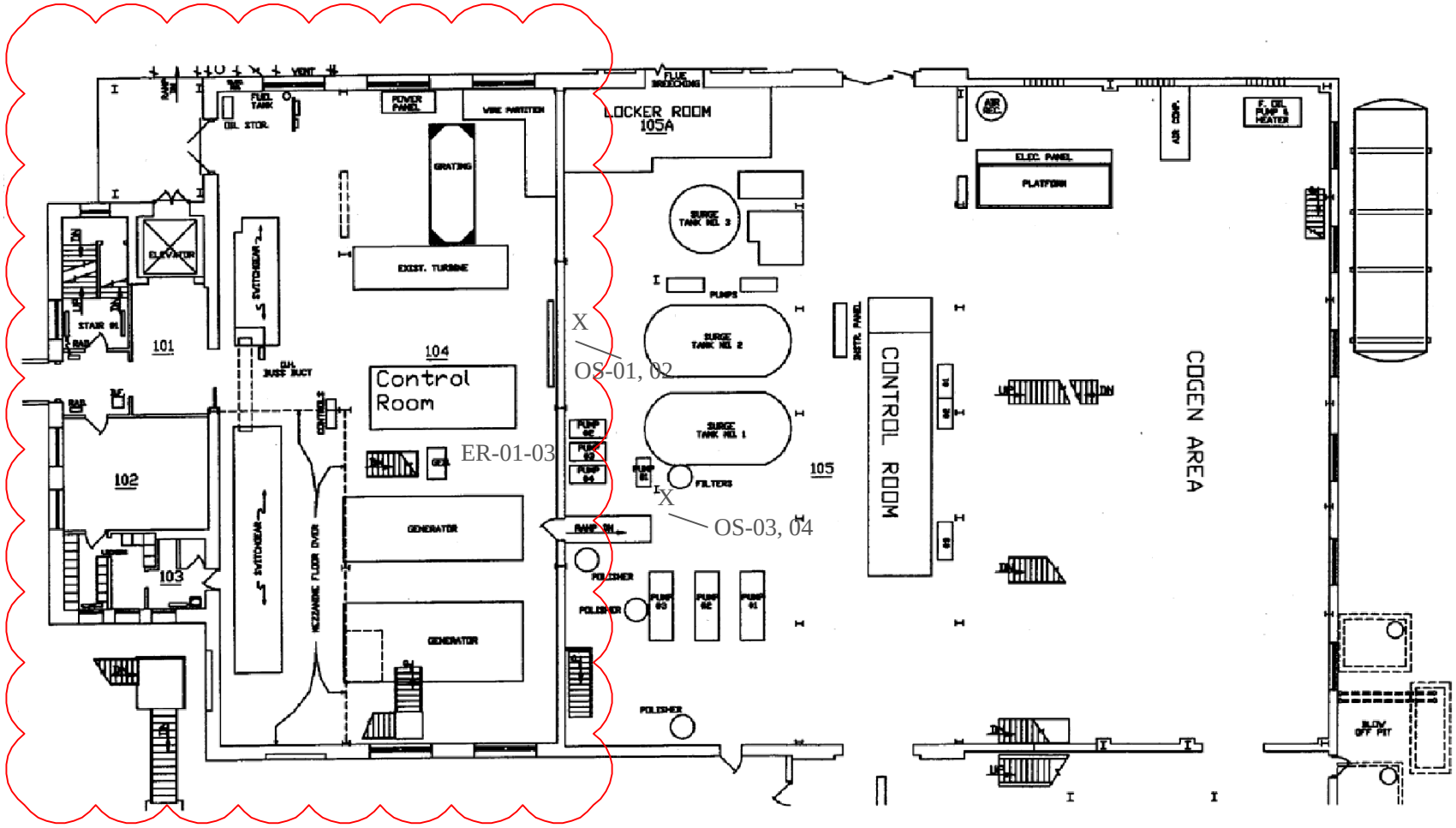
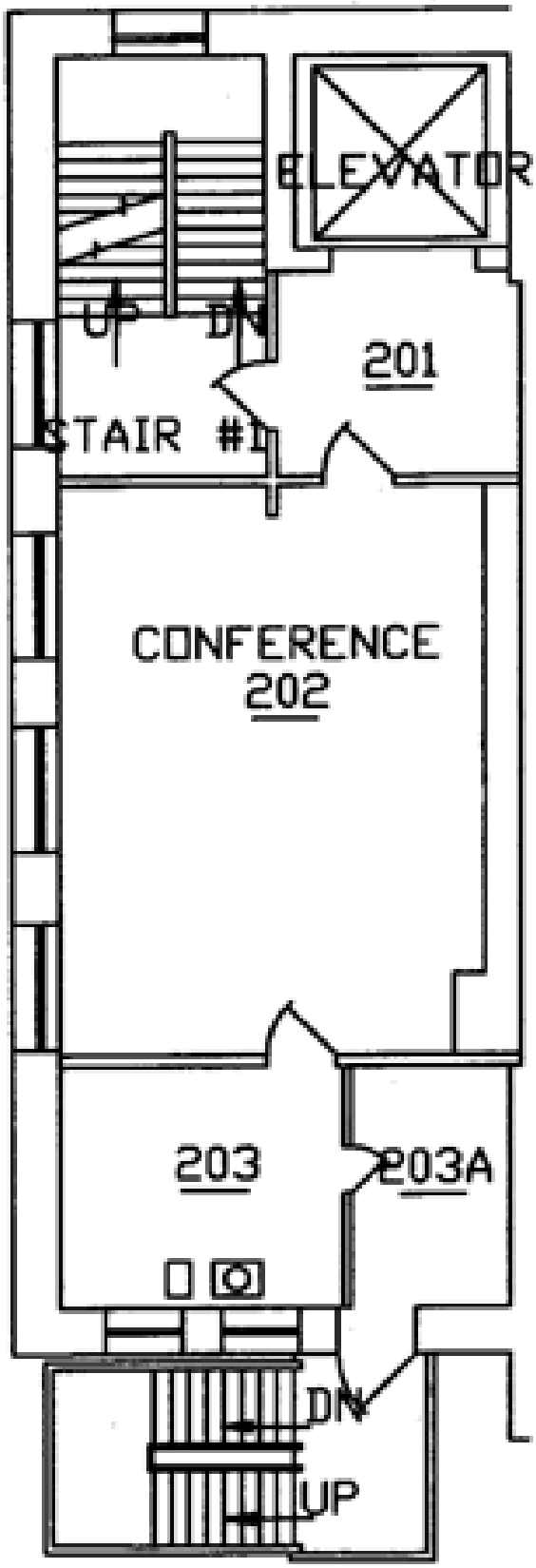


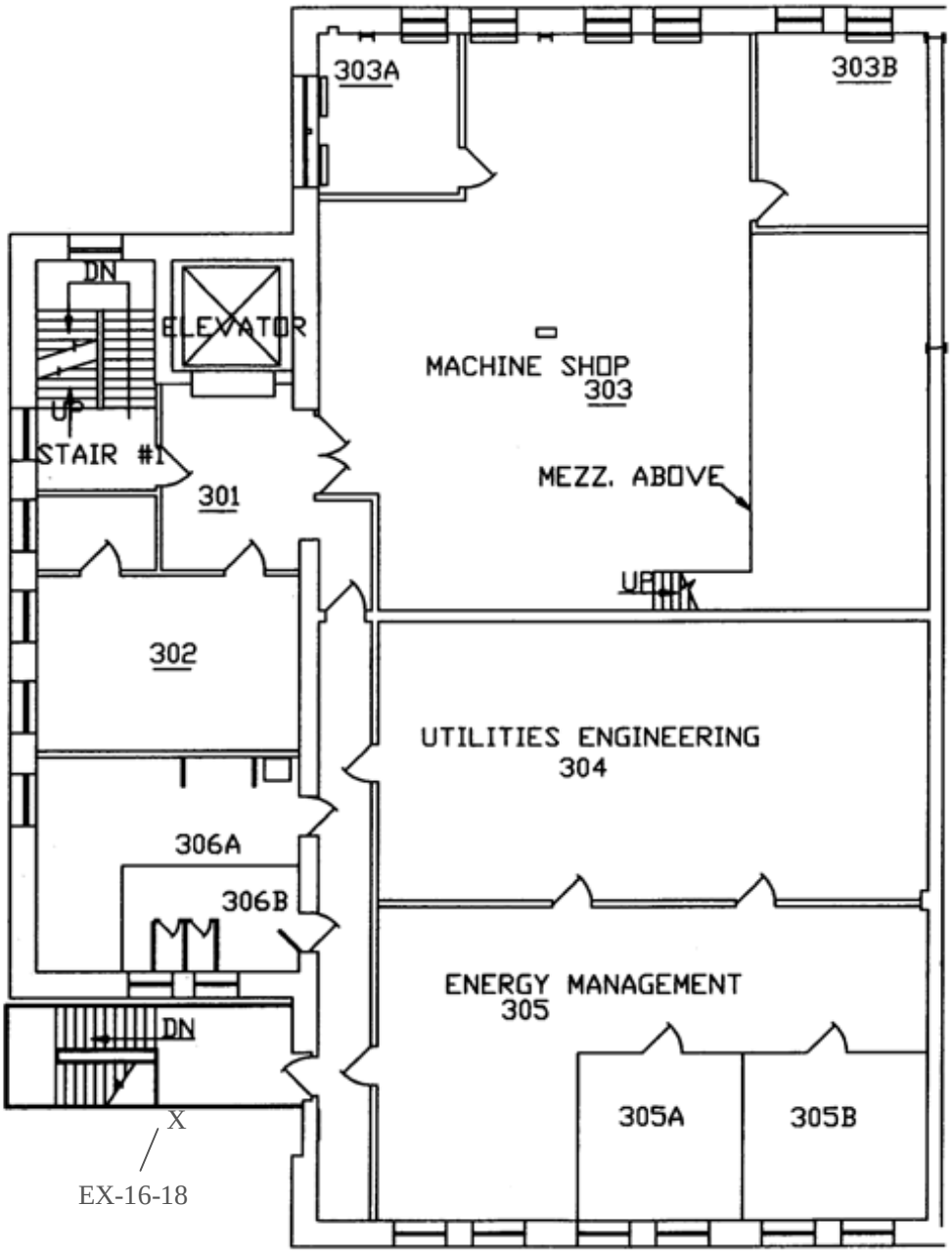
Sample Location Plan - Building 11 1st Floor - Old Side (OS) and Engine Room (ER) 1st floor and Basements Phase V	Date 10-26-2011	Drawn by: LCN	N
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS	
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE	
		Page 6	

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, Illinois 60607

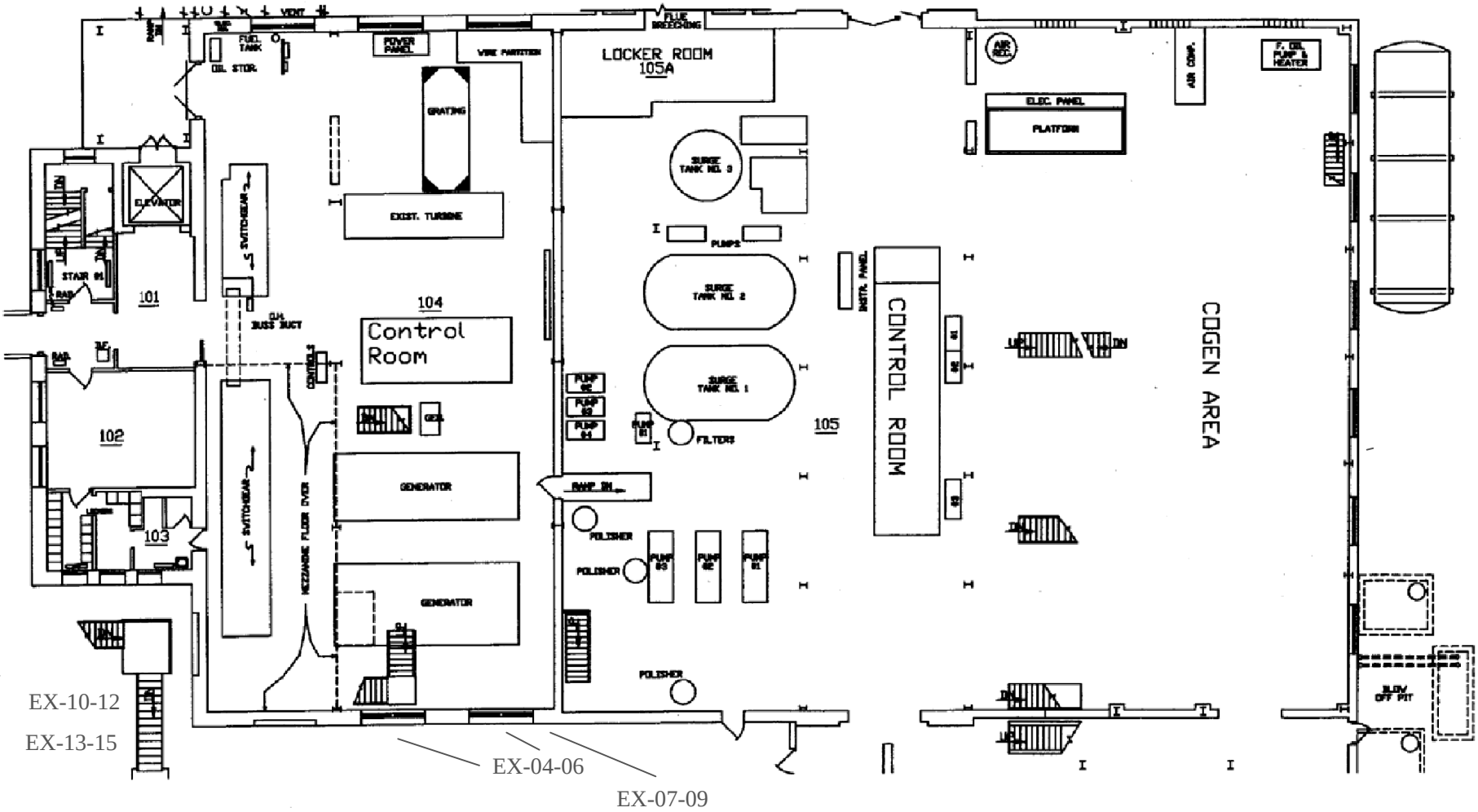
Tel: (312) 663-3900
Fax:(312) 663-3930



Sample Location Plan - Building 11 2nd Floor - Engine Room (ER) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 7		

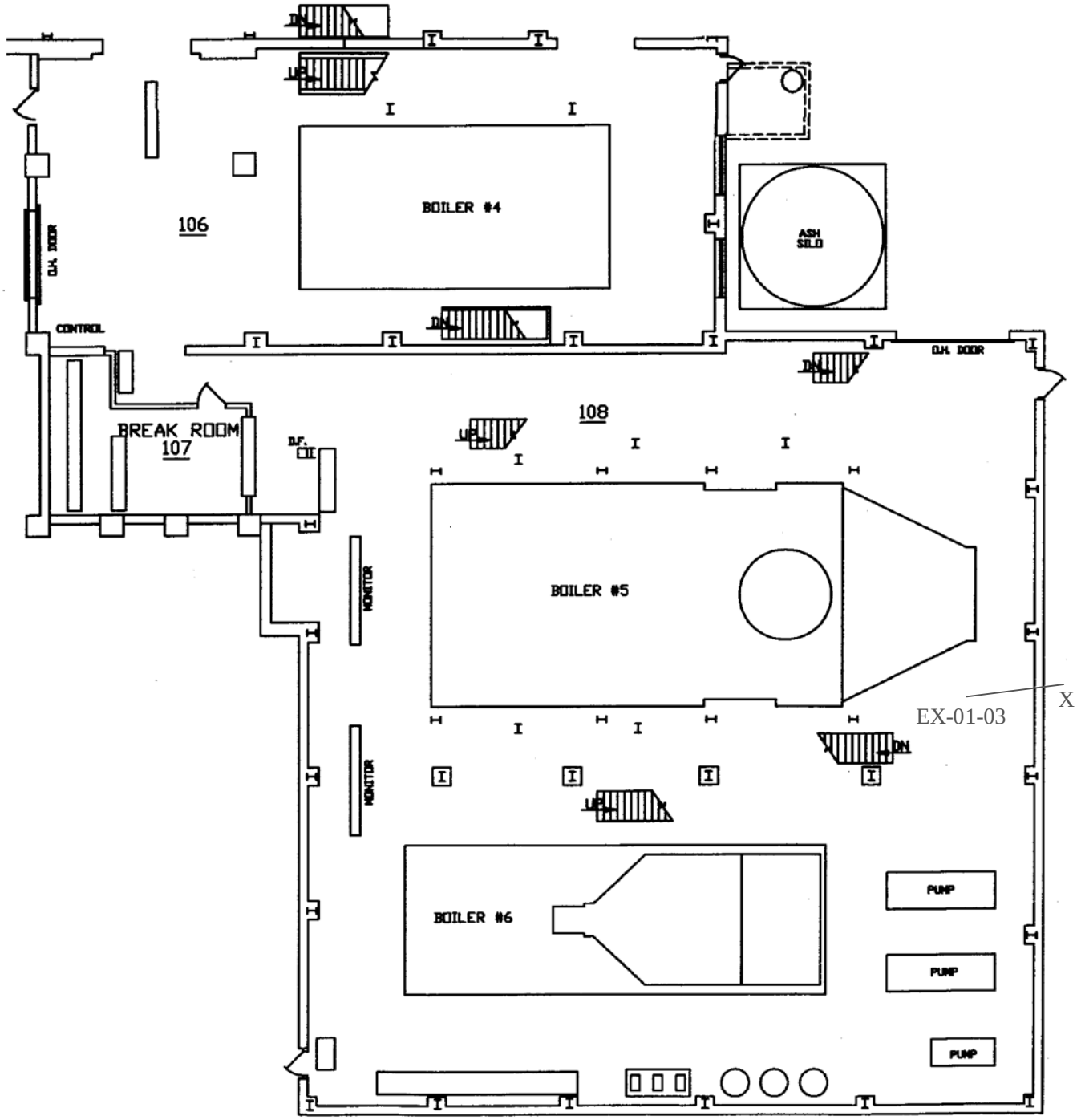


Sample Location Plan - Building 11 3rd Floor - Engine Room (ER) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 8		



*Basement is located under the "Old Side" Section Control Room.

Sample Location Plan - Building 11 First Floor - Exterior (EX) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells St., Suite 700 Chicago, Illinois 60607
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
Project Number: A111305-104	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax:(312) 663-3930
		Page 9		



Sample Location Plan - Building 11 1st Floor - Exterior (EX) Phase V	Date 10-26-2011	Drawn by: LCN	N	Environmental Consulting Group, Inc. 411 S. Wells Street, Suite #700 Chicago, Illinois 60607 www.ecgmidwest.com
	Naval Station Great Lakes Great Lakes, Illinois	Reviewed by: MAS		
	Ken Reinebach, CIH IDPH Project Designer License #100-10308	NOT TO SCALE		Tel: (312) 663-3900 Fax: (312) 663-3930
Project Number: A111305-104		Page 10		

Attachment E

ECG Certifications

ABIH®

american board of industrial hygiene®

organized to improve the practice of industrial hygiene
proclaims that

Kenneth R. Reinebach

having met all requirements through
education, experience and examination,
is hereby certified in the

COMPREHENSIVE PRACTICE
of
INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH

Certificate Number: 5409 CP

Awarded: December 9, 1991

Expiration Date: June 1, 2013

Chair ABIH

Executive Director ABIH

State of Illinois
Environmental Protection Agency

License Number: 00227 Expiration Date: July 7, 2012

Kenneth R. Reinebach

has complied with the provisions of the Illinois Industrial Hygienists Licensure Act and/or rules and regulations and is hereby authorized to use the title of

LICENSED INDUSTRIAL HYGIENIST

July 7, 2010
Date

Douglas P. Scott, Director

State of Illinois
Environmental Protection Agency

License Number: 00227 Expiration Date: July 7, 2012

Kenneth R. Reinebach

has complied with the provisions of the Illinois Industrial Hygienists Licensure Act and/or rules and regulations and is hereby authorized to use the title of

LICENSED INDUSTRIAL HYGIENIST

July 7, 2010
Date

Douglas P. Scott, Director

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERTIFICATION NUMBER
5409 CP
EXPIRES
6-1-2013
PENNSYLVANIA - 1960
KENNETH R. REINEBACH, CIH

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERTIFICATION NUMBER
5409 CP
EXPIRES
6-1-2013
PENNSYLVANIA - 1960
KENNETH R. REINEBACH, CIH

THE AMERICAN BOARD OF INDUSTRIAL HYGIENE
INCORPORATED
CERTIFICATION NUMBER
5409 CP
EXPIRES
6-1-2013
PENNSYLVANIA - 1960
KENNETH R. REINEBACH, CIH

Kenneth Reinebach

Illinois Department of
PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 11369	4/11/2011	05/15/2012

LUKE C NIENHAUS
3717 N. KENMORE AVE #3
CHICAGO, IL 60613

Environmental Health

ENDORSEMENTS	TC EXPIRES
INSPECTOR	3/30/2012

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

Luke Nienhaus

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. This training course complies with the requirements of TSCA Title II and is accredited by the state of* ***Wisconsin Department of Health Services*** *under CH.DHS159, Wisconsin Administration code.*

Asbestos Building Inspector Refresher

Course Date: 3/30/2011
Expiration Date: 3/30/2012

Exam Date: 3/30/2011
Certificate: BIR1103301156

Location: 12304 75th Street Kenosha, WI 53142

Issue Date: 03/30/2011

Kathy DeSalvo, Director

2011

Illinois Department of
PUBLIC HEALTH

LEAD RISK ASSESSOR LICENSE

LEAD ID	ISSUED	EXPIRES
012854	12/28/2010	1/31/2012

Luke C. Nienhaus
3717 N. Kenmore Ave., Apt. #3
Chicago, IL 60613

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
RISK ASSESSOR CERTIFICATE EXPIRES
10/6/2013
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
If found return to 525 W.Jefferson St Springfield, IL 62761

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Luke Niehaus

has successfully completed the 8 hour Lead Risk Assessor 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 in accordance with the Illinois Lead Poisoning Prevention Code.

Lead Risk Assessor Refresher

Course Date:10/6/2010
Expiration Date:10/6/2013

Exam Date: 10/6/2010
Certificate: LRAR1010062436

Kathy DeSalvo

Kathy DeSalvo, Director

2010

Illinois Department of
PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER
100 - 10834

ISSUED
1/26/2011

EXPIRES
05/15/2012

ROBERT A JOHNSON
5244 W MADISON STREET
SKOKIE, IL 60077

Environmental Health

ENDORSEMENTS	TC EXPIRES
INSPECTOR	8/31/2011

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.

Illinois Department of
PUBLIC HEALTH

ASBESTOS
PROFESSIONAL
LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 09551	3/2/2011	05/15/2012

THAD J RYNIAK
400 VILLAGE CIRCLE #302
WILLOW SPRINGS, IL 60450

Environmental Health

ENDORSEMENTS	TC EXPIRES
INSPECTOR	2/28/2012
PROJECT MANAGER AIR SAMPLING PROFESSIONAL	10/14/2011

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

Thad Ryniak

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: 2/18/2011
Expiration Date: 2/18/2012

Exam Date: 2/18/2011
Certificate: BIR1102180508

Kathy DeSalvo

Kathy DeSalvo, Director

2011

Illinois Department of
PUBLIC HEALTH

LEAD INSPECTOR LICENSE

LEAD ID	ISSUED	EXPIRES
011252	12/7/2010	1/31/2012

Thad J. Ryniak
400 Village Cir., Apt #302
Willow Springs, IL 60480

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
INSPECTOR CERTIFICATE EXPIRES 5/10/2013

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

If found return to 525 W.Jefferson Street
Springfield, IL 62761

Illinois Department of
PUBLIC HEALTH

LEAD RISK ASSESSOR LICENSE

LEAD ID	ISSUED	EXPIRES
011252	12/9/2010	1/31/2012

Thad J. Ryniak
400 Village Cir., Apt #302
Willow Springs, IL 60480

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
RISK ASSESSOR CERTIFICATE EXPIRES
12/5/2011
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
If found return to 525 W.Jefferson St Springfield, IL 62761

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Thad Ryniak

has successfully completed the 8 hour Lead Risk Assessor 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 in accordance with the Illinois Lead Poisoning Prevention Code.

Lead Risk Assessor Refresher

Course Date: 9/30/2011
Expiration Date: 9/30/2014

Exam Date: 9/30/2011
Certificate: LRAR1109302770

Kathy DeSalvo, Director

2011

Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Thad Ryniak

has successfully completed the 8 hour Lead 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 in accordance with the Illinois Lead Poisoning Prevention Code.

Lead Inspector Refresher

Course Date: 5/10/2010
Expiration Date: 5/10/2013

Exam Date: 5/10/2010
Certificate: LIR1005101276

Kathy DeSalvo

Kathy DeSalvo, Director

2010

PUBLIC HEALTH

PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 10662	4/13/2011	05/15/2012

RAYMOND A CICENAS
8617 W 145TH PL
ORLAND PARK, IL 60462

Environmental Health

ENDORSEMENTS	TC EXPIRES
SUPERVISOR/WORKER	3/4/2012
INSPECTOR	3/2/2012
PROJECT MANAGER	3/4/2012
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

Raymond Cicenas

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: 3/2/2011
Expiration Date: 3/2/2012

Exam Date: 3/2/2011
Certificate: BIR1103020746

Kathy DeSalvo, Director

2011

Illinois Department of
PUBLIC HEALTH

Pat Quinn, Governor
Damon T. Arnold, M.D., M.P.H., Director

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.idph.state.il.us

5/19/2010

JACOB R MUELLER
3616 SMOKE TREE LN
CRYSTAL LAKE, IL 60012

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 18467

Enclosed is your Asbestos Professional License that expires 05/15/2011

	CERTIFICATE EXPIRATION DATE
INSPECTOR	2/20/2011
PROJECT MANAGER AIR SAMPLING PROFESSIONAL	2/19/2011

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.
Our WEB address is http://www.idph.state.il.us/envhealth/ehhome.htm

Illinois Department of PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 18467	5/19/2010	05/15/2011

JACOB R MUELLER
3616 SMOKE TREE LN
CRYSTAL LAKE, IL 60012

Environmental Health

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on recycled pape

ENDORSEMENTS	TC EXPIRES
INSPECTOR	2/20/2011
PROJECT MANAGER AIR SAMPLING PROFESSIONAL	2/19/2011

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

Jacob Mueller

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. This training course complies with the requirements of TSCA Title II and is accredited by the state of* ***Wisconsin Department of Health Services*** *under CH.DHS159, Wisconsin Administration code.*

Asbestos Building Inspector Refresher

Course Date: 3/30/2011
Expiration Date: 3/30/2012

Exam Date: 3/30/2011
Certificate: BIR1103301164

Location: 12304 75th Street Kenosha, WI 53142

Issue Date: 03/30/2011

Kathy DeSalvo, Director

2011

CERTIFICATE OF ACHIEVEMENT
ASBESTOS ABATEMENT

Approved by the Illinois Department of Public Health and Indiana Department of Environmental Management

This is to certify that JACOB R. MUELLER has completed the Contractor/Supervisor Recertification course and passed the examination on 03/02/2011 with a minimum score of 70% or better. Training was in accordance with U.S. E.P.A. 40 CFR 763 Subpart E, Appendix C, Asbestos Containing Materials in Schools: Model Accreditation Plan, TSCA II, Authorized by both AHERA & ASHARA and Indiana Rule 326 IAC 18-2.

PUBLIC HEALTH & SAFETY inc.
Environmental and Occupational Services
105 S. Ashland Ave., Chicago, IL 60607

03/02/2011
Course Dates:

03/02/2012
Expires:

1103CSR06
Certificate Number:

Phone Number: (312) 421-7397

Director of Training
Nicholas J. Peneff
Doctor of Public Health

FORM # A-008

JAINA ASSOCIATES

THIS IS TO CERTIFY

THAT

JACOB R. MUELLER

331-80-9789

HAS SUCCESSFULLY COMPLETED THE SAMPLING AND EVALUATING ASBESTOS AIRBORNE DUST - NIOSH 582 EQUIVALENT TRAINING COURSE. THE COURSE WAS CONDUCTED BY JAINA ASSOCIATES, LOCATED AT 2851 GARDEN DRIVE, LISLE, ILLINOIS 60532.

LOCATION: STAT ANALYSIS
2201 W. Campbell Park Drive
Chicago, Illinois 60612

COURSE DATES: March 7th to 14th, 2009

CERTIFICATE No.: 09JA-31405
IDPH COURSE PROVIDER No.: 038

DIRECTOR OF TRAINING:

SANJIV JAIN

© Goes 487

LITHO. IN U.S.A.

Illinois Department of
PUBLIC HEALTH

Pat Quinn, Governor
Damon T. Arnold, M.D., M.P.H., Director

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.idph.state.il.us

2/16/2011

Jacob R. Mueller
855 W. Adams St., Ste. #200
Chicago, IL 60607

LEAD LICENSE ID NUMBER 014004

ENCLOSED IS YOUR LEAD LICENSE

This is a new format for the Illinois Lead Program License. Certificates will not be issued with the licenses. If you have any questions or need further assistance contact the Illinois Lead Program at 217/782/3517.
Illinois Lead Program EMAIL: dph.lead@illinois.gov

Illinois Department of PUBLIC HEALTH

LEAD INSPECTOR LICENSE

LEAD ID	ISSUED	EXPIRES
014004	**2/16/2011**	1/31/2012

Jacob R. Mueller
855 W. Adams St., Ste. #200
Chicago, IL 60607

ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
INSPECTOR CERTIFICATE EXPIRES **5/29/2012**

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

If found return to 525 W.Jefferson Street
Springfield, IL 62761

Improving public health, one community at a time

printed on recycled paper

CERTIFICATE OF ACHIEVEMENT

LEAD INSPECTOR'S TRAINING

Accredited by Illinois Department of Public Health

This is to certify that JACOB MUELLER has completed the 24-HOUR LEAD INSPECTOR course and successfully passed the examination on 05/29/2009 with a minimum score of 70%. Training was in accordance with the Illinois Lead Poisoning Prevention Code 77 ILL ADM Code 845.30 and U.S. EPA Model Training Course Curriculum.

PUBLIC HEALTH & SAFETY, Inc.
Environmental and Occupational Services
105 S. Ashland Ave., Chicago, IL 60607

05/27/2009-05/29/2009
Course Dates:

05/29/2012
Expires:

0905LI16
Certificate Number:

Phone Number: (312) 421-7397

Director of Training
Nicholas J. Peneff
Doctor of Public Health

FORM # L-010

Certificate of Achievement

This is to certify that

Jacob Mueller
GSG Consultants Inc.

on the 27th day of June 2009, successfully completed the factory training for

RMD's LPA-1 Lead Paint Inspection System

including, but not limited to the topics of Radiation Safety, DOT Regulations, and the Proper Use of the Instrument.

Mark Caldwell, General Manager RMD
44 Hunt St., Watertown, Massachusetts

Lead ID Number: 14004

Illinois Department of Public Health
Division of Environmental Health
Illinois Lead Program

this certificate is hereby granted to:

Jacob R. Mueller

For completing the Department's Third Party Examination with a passing score of 74 percent for accreditation under Illinois Administrative Code, Section 845

Lead Inspector

Awarded: November 20, 2009

Sam Churchill, Program Manager

Illinois Lead Program, 525 W. Jefferson St., 3rd. Floor, Springfield, IL 62761 (217) 782-5830

CERTIFICATE OF ACHIEVEMENT

Lead Risk Assessment Training

Accredited by Illinois Department of Public Health

This is to certify that JACOB MUELLER has completed the 16-HOUR LEAD RISK ASSESSMENT course and successfully passed the examination on 06/02/2009 with a minimum score of 70%. Training was in accordance with Title X, U.S. EPA Model Training Course Curriculum, 1995, the HUD Guidelines, 1995, and the Illinois Dept. of Public Health rules.

PUBLIC HEALTH & SAFETY inc.
Environmental and Occupational Services
105 S. Ashland Ave., Chicago, IL 60607

06/01/2009-06/02/2009
Course Dates:

06/02/2012
Expires:

0906RA14
Certificate Number:

Director of Training
Nicholas J. Peneff
Doctor of Public Health

Phone Number: (312) 421-7397

FORM # L-017

Attachment F

Photographs

March 2011
Photographs

1. View of pipe insulation—Asbestos. (SW)

2. View of 12”x12” floor tile—Gray w/ gray specs. (SW)

3. View of 2’x4’ ceiling tile. (SW1)

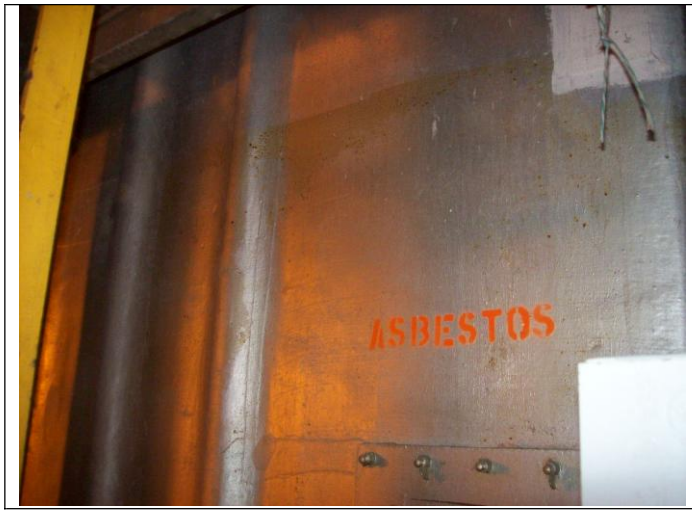
4. View of window glazing—Asbestos. (SW1)

5. View of 12’x12’ floor tile—Tan w/ small tan squares. (SW1)

6. View of pipe insulation and fittings—Asbestos (NW1)

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**Asbestos Sample Photographs** **Project No:** A111305-104

7. View of pipe insulation and fittings. (NWM)



8. View of boiler insulation—Asbestos. (NE1)

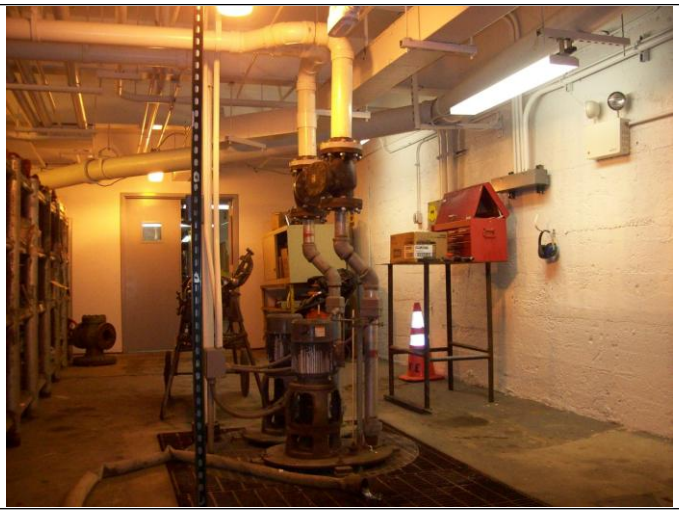
9. View of side of boiler w/ asbestos insulation. (NE1)

10. View of pipe insulation fitting—Asbestos. (NE1)

11. View of pipe insulation—Asbestos. (NE1)

12. View of laminate flooring. (NEB)

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**Asbestos Sample Photographs** **Project No:** A111305-104



13. View of epoxy flooring. (NWB)

14. View of pipe insulation fitting. (NE2)

15. View of pipe insulation and fittings—Asbestos. (NE2)

16. View of stack insulation—Asbestos. (NE2)

17. View of pipe insulation and fittings—Non-asbestos. (NW2)

18. View of pipe insulation fitting—Non-asbestos. (NEP)

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**Asbestos Sample Photographs** **Project No:** A111305-104

19. View of 12”x12” floor tile—White w/ maroon streaks—Asbestos. (OFF3)

20. View of 12”x12” floor tile—Green—Asbestos. (OFF3)

21. View of 12”x12” floor tile—Brown w/ brown streaks. (OFF3)

22. View of 12”x12” floor tile—Beige w/ green specs. (OFF3)

23. View of pipe insulation—Asbestos. (OFF2)

24. View of asphalt roofing—Grey/black roof. (ROOF)

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**Asbestos Sample Photographs** **Project No:** A111305-104

25. View of roofing flashing—Black. (ROOF)

26. View of gravel roof decking—Black. (ROOF)

Blank

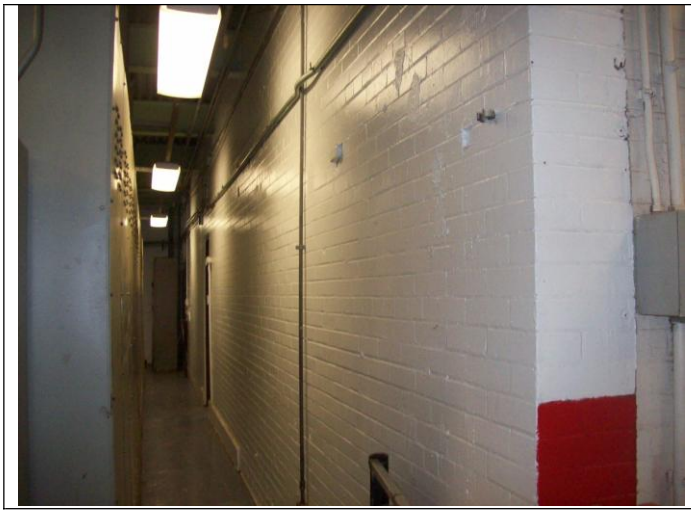
Blank

Blank

Blank

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**Asbestos Sample Photographs** **Project No:** A111305-104

1. View of tan paint—Wall—Lead-based paint. (SW1)



2. View of white paint—Wall. (SW1)

3. View of yellow paint—Stair railing—Lead-based paint. (SW1)

4. View of green paint—Pillar—Lead-based paint. (SW1)

5. View of silver paint—Wall—Lead-based paint. (NW1)

6. View of yellow paint—Stairs—Lead-based paint. (NW1)

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**LBP Sample Photographs** **Project No:** A111305-104

7. View of red paint—Equipment base. (NW1)

8. View of silver paint—Wall. (NWM)

9. View of blue paint—Floor. (NE1)

10. View of silver paint—Side of boiler. (NE1)

11. View of white paint—Wall. (NEB)

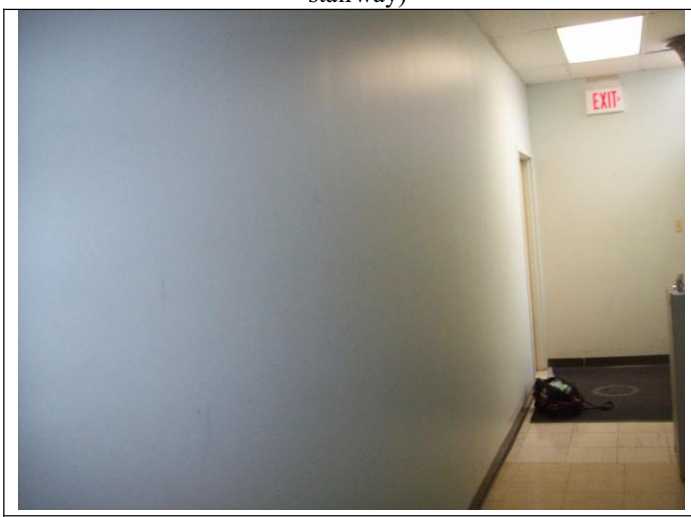
12. View of red paint—Floor. (NE2) (taken on 3rd floor)

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**LBP Sample Photographs** **Project No:** A111305-104

13. View of silver paint—Ceiling. (NEP)

14. View of brown paint—Window frame. (OFF) (SW Office stairway)

15. View of gray paint—Stairway components (OFF) (SW office stairway)



16. View of light blue green paint—Wall. (OFF3)

17. View of yellow paint—exterior roof stairs. (ROOF)

18. View of green paint—Exterior roof beams. (ROOF)

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**LBP Sample Photographs** **Project No:** A111305-104

1. View of blue paint—Exterior east 2nd floor window—Lead-based paint. (OFF2)

Blank

Blank

Blank

Blank

Blank

PHOTO DOCUMENTATION		**Naval Station Great Lakes**
Project: P816 Phase V--Building 11 **Location:** Naval Station Great Lakes, Great Lakes, IL		**LBP Sample Photographs** **Project No:** A111305-104

October 2011
Photographs

1. B-01-03, #4 Boiler Hatch Main FL., Boiler Mortar/Brick

2. B-04-06, #4 Boiler Hatch Main FL., Boiler Access Door Insulation

3. NS-01-03, New Side #5 Boiler Main FL., Boiler Access Door Insulation

4. NS-04-06, New Side #5 Boiler Main FL., Boiler Mortar/Brick

5. Assumed ACM, New Side Main FL./2nd FL. Low Pressure Steam Pipe, Pipe Insulation & Fittings

6. Assumed ACM, New Side Main FL./2nd FL. Condensate Pipe, Pipe Insulation & Fittings

PHOTO DOCUMENTATION		
Site Address:		
Building 11 Naval Station Great Lakes, Great Lakes, IL		**Project A111305-104**

7. Assumed ACM, New Side Main FL./2nd FL. Low Pressure Steam Off NE Pump, Pipe Insulation & Fittings

8. Assumed ACM, New Side Main FL./2nd FL. High Pressure Steam, Pipe Insulation & Fittings

9. NS-07-09, New Side Bathroom Main FL., 12”x12” F.T. White w/Colored Specs

10. Assumed ACM, New Side Main FL./2nd FL. Boiler Feed Off Pump, Pipe Insulation & Fittings

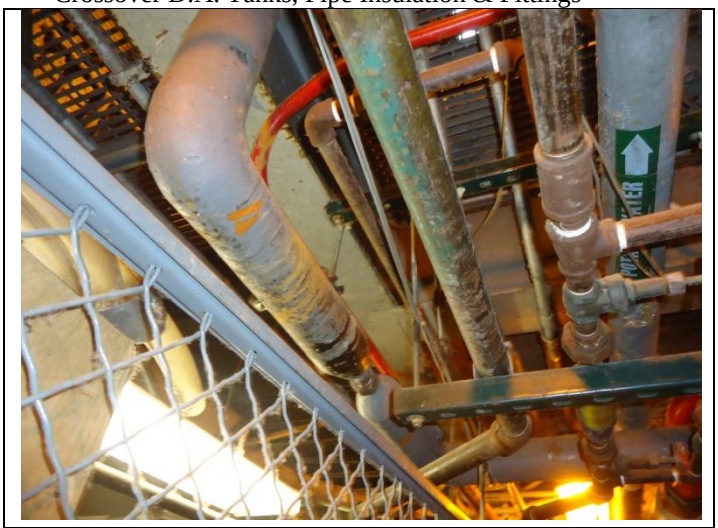
11. Assumed ACM, New Side Main FL./2nd FL. Small Pipe Off Boiler Feed, Pipe Insulation & Fittings

12. Assumed ACM, New Side Main FL./2nd FL. Feed into 2nd Floor Tank, Pipe Insulation & Fittings

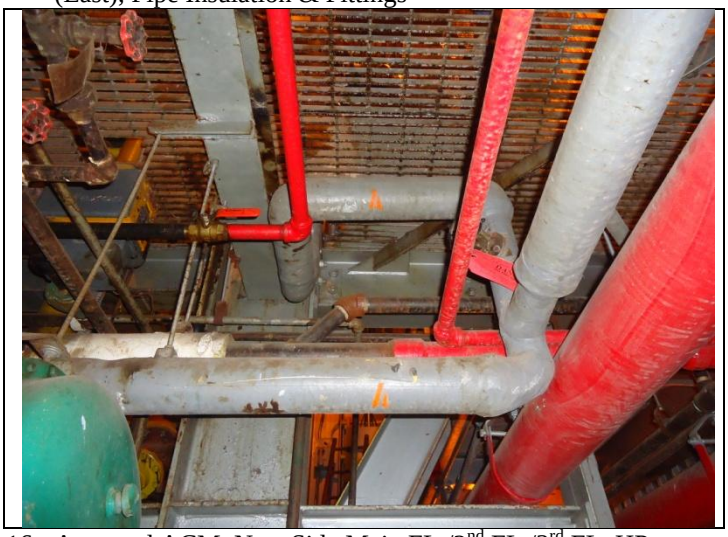
PHOTO DOCUMENTATION		
Site Address:		
Building 11 Naval Station Great Lakes, Great Lakes, IL		**Project A111305-104**

13. Assumed ACM, New Side Main FL./2nd FL. Low Pressure Crossover D.A. Tanks, Pipe Insulation & Fittings

14. Assumed ACM, New Side Main FL. Leading into Boiler #6 (East), Pipe Insulation & Fittings

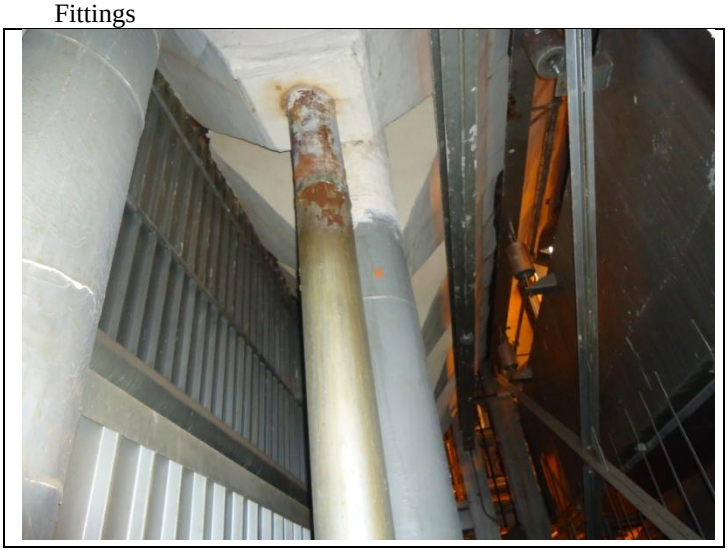


15. Assumed ACM, New Main FL. Side Small Pipe Over Storage Cage Near Boiler #6, Pipe Insulation & Fittings



16. Assumed ACM, New Side Main FL./2nd FL./3rd FL. HP Return (Starts between Boiler #6&5), Pipe Insulation & Fittings

17. Assumed ACM, New Side Main FL./2nd FL. Steam Supply (125psi), Pipe Insulation & Fittings



18. Assumed ACM, New Side Main FL. Large Steam Pipes North End Boiler #5, Pipe Insulation & Fittings

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19. NS-11, New Side Main FL. Kitchen , 2'x4' White Ceiling Tile

20. NS-12, New Side Main FL. Kitchen, White Drywall

21. NS-13, New Side Main FL. Kitchen, White Drywall Compound

22. NS-14, New Side Main FL. (West), Pipe Fitting

23. NS-15, New Side Main FL. (West) Steam Supply, Pipe Fitting

24. NS-16, New Side Main FL./Basement (West), Pipe Insulation

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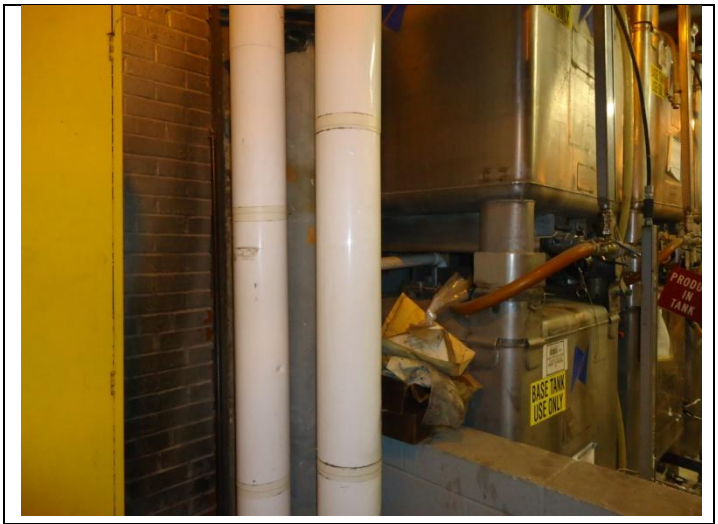
25. NS-17, New Side Basement L.P. Return, Pipe Fitting

26. Assumed ACM, New Side Main FL./Basement 3 lb Supply to Heating Coil, Pipe Insulation & Fittings



27. Assumed ACM, New Side Main FL./2nd FL./3rd FL. (North), Pipe Insulation & Fittings

28. Assumed ACM, New Side Basement (North) Air Handling Chamber Above, Pipe Insulation & Fittings

29. Assumed ACM, New Side 2nd FL/3rd FL. North into Boiler, Pipe Insulation & Fittings

30. Assumed ACM, New Side (North) 2nd FL., Duct Insulation

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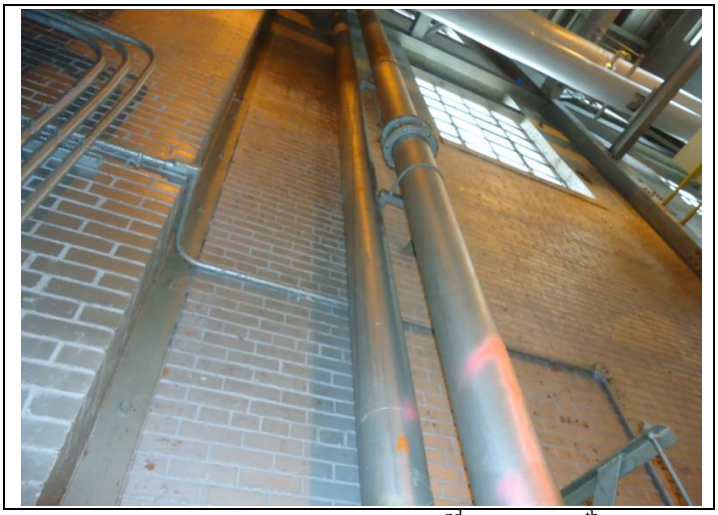
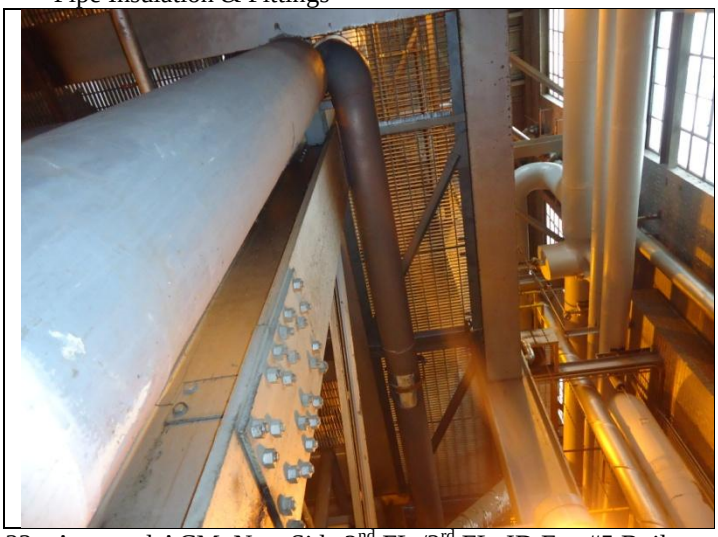


31. Assumed ACM, New Side (North) 2nd FL. Thru 4th FL., Pipe Insulation & Fittings

32. Assumed ACM, New Side 2nd FL./3rd FL. (North) to DA Tank, Pipe Insulation & Fittings



33. Assumed ACM, New Side 2nd FL./3rd FL. ID Fan #5 Boiler, Pipe Insulation & Fittings

34. Assumed ACM, New Side Basement thru 3rd FL. Small Line, Pipe Insulation & Fittings

35. Assumed ACM, New Side 2nd FL. thru 4th FL. Steam Supply (350psi) Off Header, Pipe Insulation & Fittings

36. Assumed ACM, New Side 2nd FL. Boiler #5 Header, Pipe Insulation & Fittings

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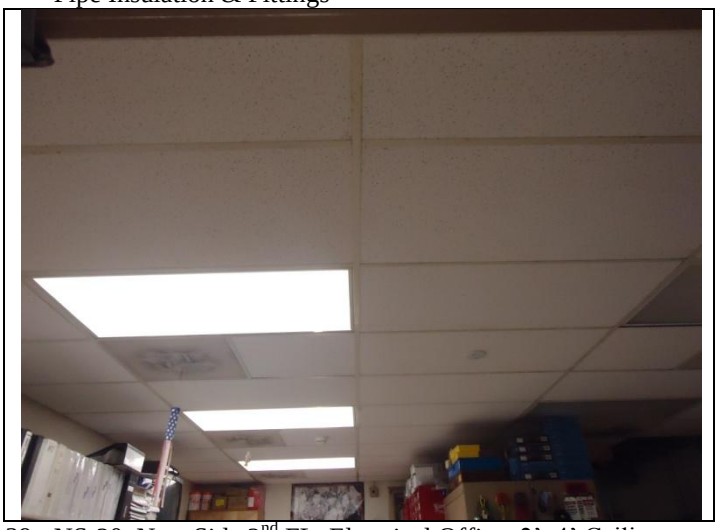
37. Assumed ACM, New Side 2nd FL. Atom Steam #5 Boiler, Pipe Insulation & Fittings

38. NS-18-19, New Side 2nd FL. Electrical Office, 12”x12” Gray F.T. & Black Mastic



39. NS-20, New Side 2nd FL. Electrical Office, 2’x4’ Ceiling Tile

40. Assumed ACM, New Side 2nd FL. HP Return (Between Boiler #6&5), Pipe Insulation & Fittings

41. Assumed ACM, New Side 2nd FL. Parallel to HP Return Pipe, Pipe Insulation & Fittings

42. NS-21-23, New Side 3rd FL. SE Corner, Window Glaze

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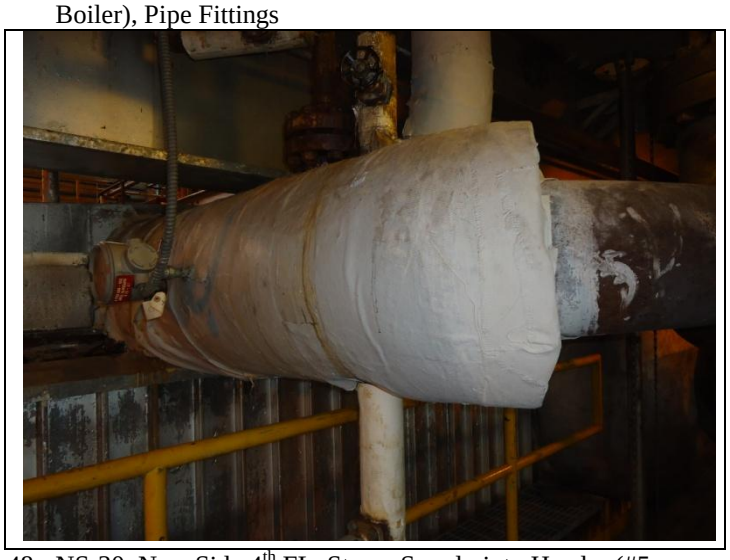
43. NS-24-26, New Side 3rd FL. No. 9 B.F.W.P 350 Supply (Pipe #28), Pipe Insulation & Fittings

44. Assumed ACM, 3rd FL. (Pipe #29) Off #5 Header, Fittings

45. NS-27, New Side 3rd FL. Steam Supply into Header (#6 Boiler), Pipe Insulation

46. NS-28, New Side 3rd FL. Steam Supply into Header (#6 Boiler), Pipe Fittings

47. NS-29, New Side 4th FL. Steam Supply into Header (#5 Boiler), Pipe Insulation



48. NS-30, New Side 4th FL. Steam Supply into Header (#5 Boiler), Pipe Fittings

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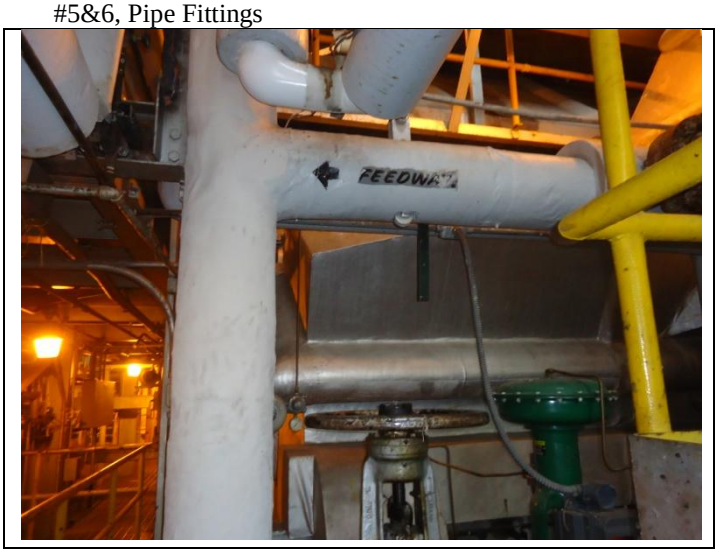
49. Assumed ACM, New Side 4th FL. 3lb Steam Supply (North & West Ends), Pipe Insulation & Fittings

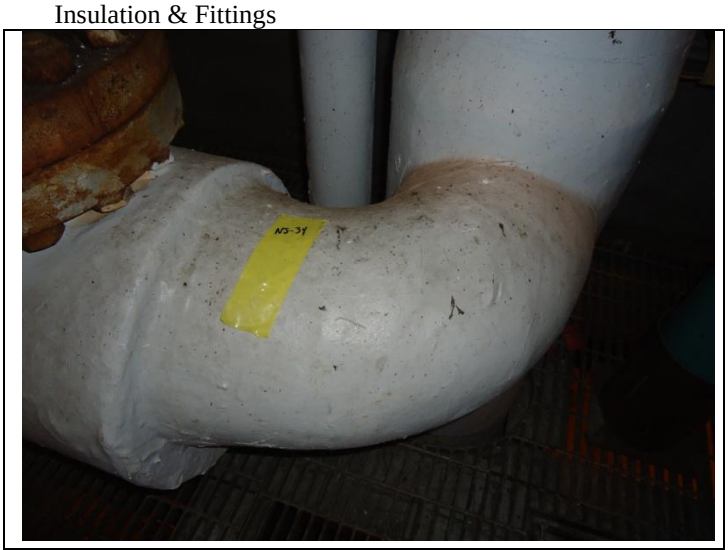
50. NS-31, New Side 4th FL. Boiler Feed Water to Boilers #5&6, Pipe Insulation

51. NS-32, New Side 4th FL. Boiler Feed Water to Boilers #5&6, Pipe Fittings

52. Assumed ACM, New Side 4th FL. 3lb Steam Supply, Pipe Insulation & Fittings



53. NS-33, New Side 4th FL. Feed Water North Pipe of Boiler #5, Pipe Insulation



54. NS-34, New Side 4th FL. Feed Water North Pipe of Boiler #5, Pipe Fitting

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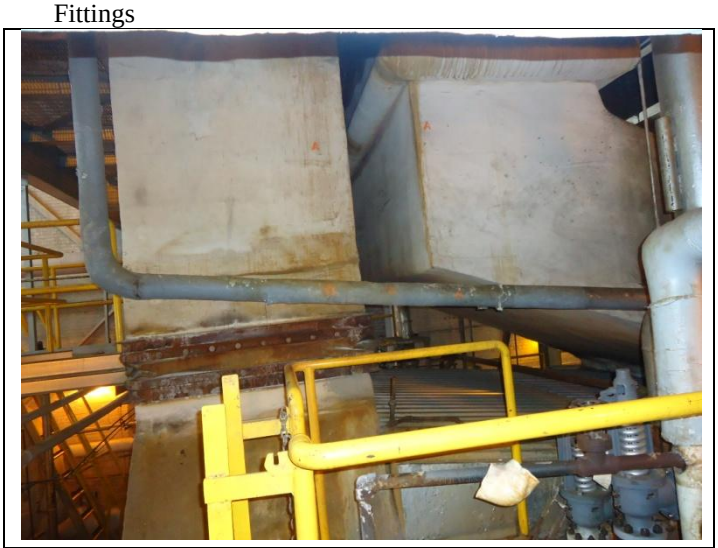
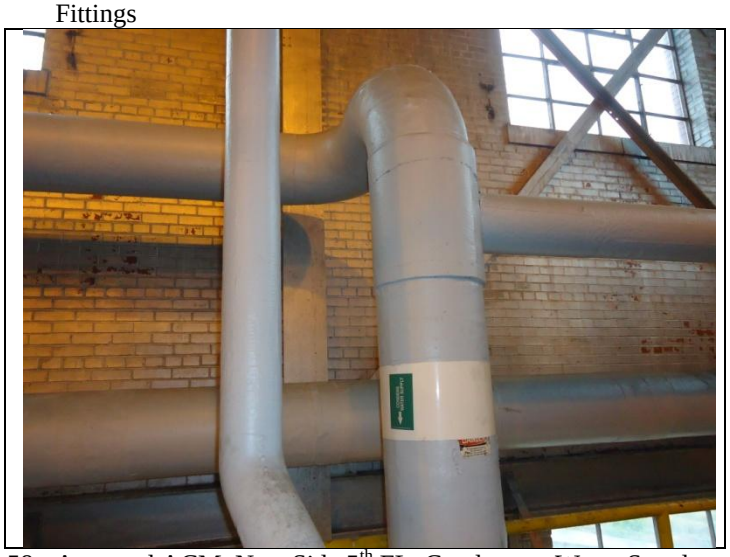
55. NS-35-38, New Side 4th FL. Pipe #14, Pipe Insulation & Fittings

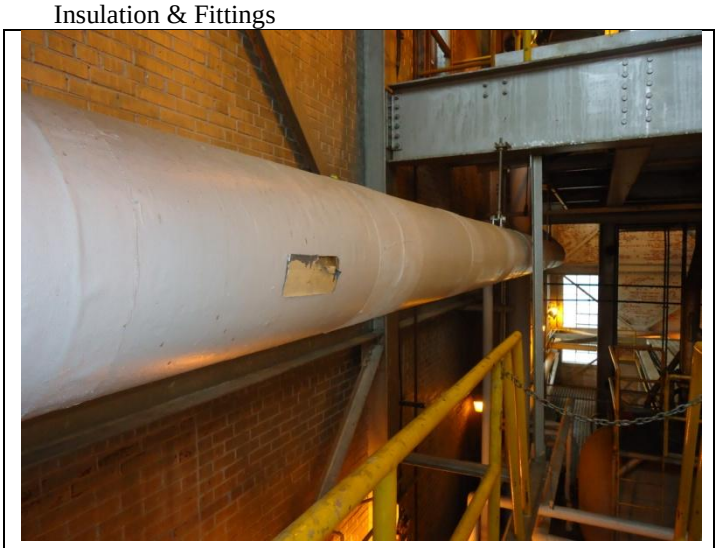
56. NS-39-42, New Side 4th FL. Heater, Pipe Insulation & Fittings



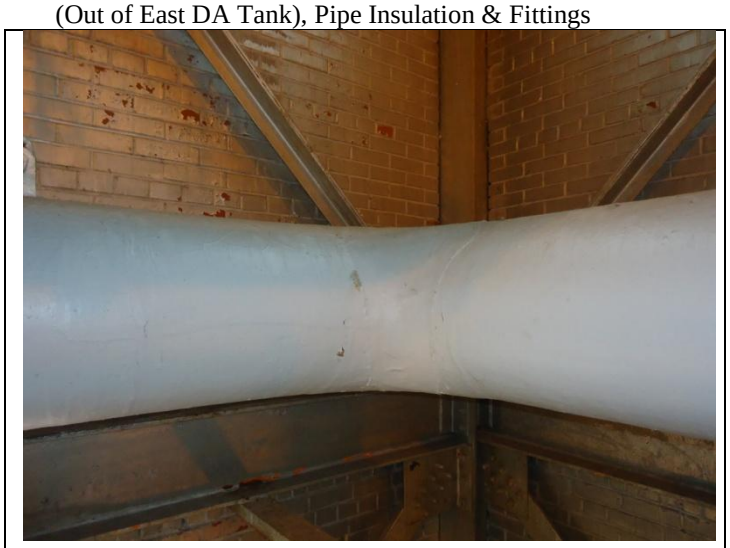
57. Assumed ACM, New Side 4th FL. Top of Boiler #6, Pipe Insulation & Fittings



58. Assumed ACM, New Side 5th FL. Condensate Water Supply (Out of East DA Tank), Pipe Insulation & Fittings



59. NS-43, New Side 5th FL. Northeast 25k Pipe, Pipe Insulation



60. NS-44, New Side 5th FL. Northeast 25k Pipe, Pipe Fittings

61. Assumed ACM, New Side 5th FL. Soot Blower Steam Supply Pipe, Pipe Insulation & Fittings

62. NS-45, New Side 5th FL. Boiler Door, Boiler Door Gasket

63. NS-46-48, New Side Roof, Component/Stack Flashing

64. Assumed ACM, New Side 4th FL. East DA Tank, Tank Insulation

65. Assumed ACM, New Side Boiler #6 4th FL/5th FL., Upper & Lower Insulation

66. NS-49, New Side 4th FL. Boiler #6, Boiler Gasket

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67. Assumed ACM, New Side 3rd FL. thru 5th FL. Boiler #5, Upper Insulation

68. NS-50, New Side 4th FL. Boiler #5, Gasket/Rope Material

69. Assumed ACM, New Side 4th FL. Boiler #5, Upper Insulation

70. Assumed ACM, New Side 3rd FL. North Side Flash Tank (By Boilers #5&6), Tank Insulation

71. Assumed ACM, New Side 3rd FL. North Side Boiler #5 Duct, Duct Insulation

72. Assumed ACM, New Side Boiler #5 Duct Silo, Duct Silo Insulation

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73. Assumed ACM, Boiler #4 Section Main Fl./2nd FL. Boiler Fan #4, Pipe Insulation

74. B-07, Boiler #4 Section Main FL./2nd FL. West Central, Pipe Fittings

75. Assumed ACM, Boiler #4 Section Main FL. Between Boiler #4 Fan Exhaust, Pipe Insulation & Fittings

76. Assumed ACM, Boiler #4 Section Main FL. Southwest Corner of Boiler, Pipe Fittings

77. Assumed ACM, Boiler #4 Section Basement Boiler Fan #4, Insulation

78. Assumed ACM, Boiler #4 Section 2nd FL. Boiler #4 Feed Water Pipe, Pipe Insulation

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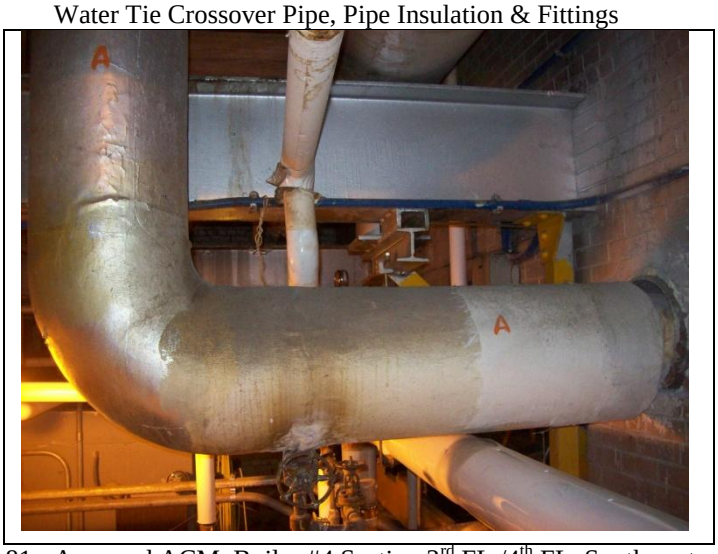
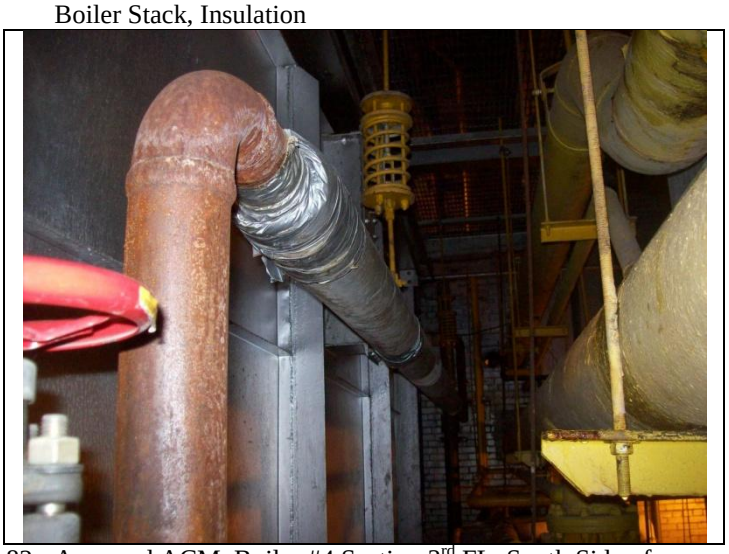
79. Assumed ACM, Boiler #4 Section Main FL. thru 4th FL. Water Tie Crossover Pipe, Pipe Insulation & Fittings

80. Assumed ACM, Boiler #4 Section 2nd FL./3rd FL. North Boiler Stack, Insulation



81. Assumed ACM, Boiler #4 Section 3rd FL./4th FL. Southwest Thru Wall, Pipe Insulation & Fittings



82. Assumed ACM, Boiler #4 Section 3rd FL. South Side of Boiler 4, Pipe Insulation

83. Assumed ACM, Boiler #4 Section 4th FL. 2 Pipes Top of Stairway (West), Pipe Insulation & Fittings

84. B-08, Boiler #4 Section 4th FL. Southwest Corner, Pipe Insulation

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85. B-09, Boiler #4 Section 4th FL. Southwest Corner, Pipe Fittings

86. B-10, Boiler #4 Section 4th FL. Southwest Corner, Pipe Insulation

87. B-10, Boiler #4 Section 4th FL. Southwest Corner, Pipe Fittings

88. B-11, Boiler #4 Section 4th FL. Penthouse, Concrete Caulking

89. B-12, Boiler #4 Section 4th FL. Penthouse, Roofing Asphalt

90. Assumed ACM, Boiler #4 Section 4th FL. 2 Pipes East Side of Boiler #4, Pipe Insulation & Fittings

91. CG-1, Co-Gen Lower Level West Room, Pipe Insulation

92. CG-1, Co-Gen Lower Level West Room, Pipe Fittings

93. CG-2, Co-Gen Lower Level North Side, Pipe Fittings

94. CG-3, Co-Gen Lower Level North Side, Pipe Insulation

95. CG-4, Co-Gen Lower Level Center High Pressure Natural Gas Pipe, Pipe Fittings

96. CG-6, Co-Gen Upper Level #125 Steam Pipe West Wall, Pipe Fittings

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97. CG-5, Co-Gen Upper Level #125 Steam Pipe West Wall, Pipe Insulation

98. CG-7, Co-Gen Upper Level Amona Vapor Pipe, Pipe Insulation

99. CG-8, Co-Gen Upper Level Amona Vapor Pipe, Pipe Fittings

100. CG-9, Co-Gen Upper Level Boiler Feed Water East End, Pipe Insulation

101. CG-10, Co-Gen Upper Level Boiler Feed Water East End, Pipe Fittings

102. CG-11, Co-Gen Upper Level Boiler Downcomer, Pipe Insulation

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103. CG-11, Co-Gen Upper Level Boiler Downcomer, Pipe Fittings

104. Assumed ACM, Old Side Main FL. West Condensate Tank #3, Tank Insulation

105. Assumed ACM, Old Side Main FL. 2 Parallel Pipes North/South Export Lines, Pipe Insulation

106. Assumed ACM, Old Side Main FL. 2 Parallel Pipes North/South Export Lines, Pipe Fittings

107. Assumed ACM, Old Side Main FL. Next to Old Side Entrance 3, Pipe Insulation

108. Assumed ACM, Old Side Main FL. Next to Old Side Entrance 3, Pipe Fittings

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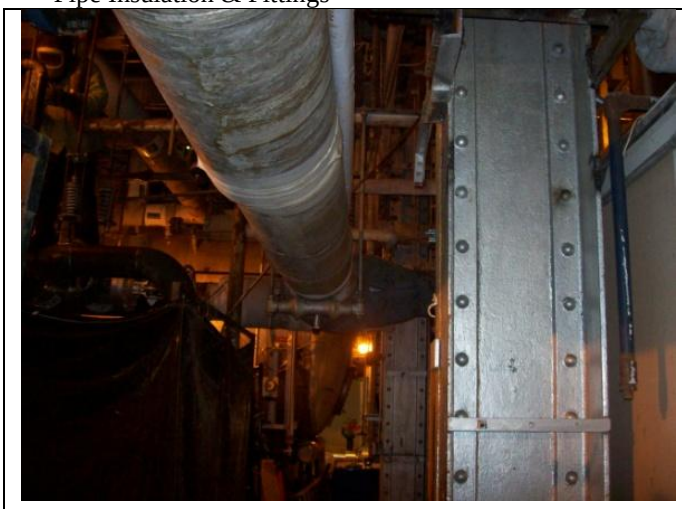
109. Assumed ACM, Old Side Main FL. Above Control Office, Pipe Insulation & Fittings

110. Assumed ACM, Old Side Main FL. Low Pressure Condenser DA (Walkway South of Office), Pipe Insulation



111. Assumed ACM, Old Side Main FL. Low Pressure Condenser DA (Walkway South of Office), Pipe Fittings

112. Assumed ACM, Old Side Main FL. Boiler Feed Water to #5&6 Boilers (East Side of South Office), Pipe Insulation &Fittings

113. Assumed ACM, Old Side Main FL. SE Section of Old Side, Pipe Insulation & Fittings

114. OS-1, Old Side Main FL. SE Section of Old Side By Entrance Top of Ramp, Pipe Fittings

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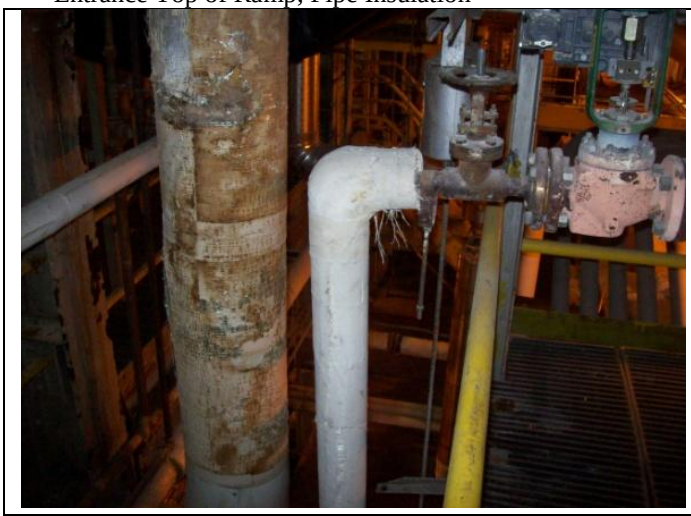
115. OS-2, Old Side Main FL. SE Section of Old Side By Entrance Top of Ramp, Pipe Insulation

116. OS-3, Old Side 2nd FL. East Catwalk Trasar #4, Pipe Insulation



117. OS-3, Old Side 2nd FL. East Catwalk Trasar #4, Pipe Fittings

118. Assumed ACM, Old Side Main FL. East End Near Wall (Upper), Pipe Insulation & Fittings

119. \Assumed ACM, Engine Room 2nd FL. Conference Room 202 Above Ceiling Cavity, Pipe Fittings

120. Assumed ACM, Engine Room Main FL. Near Vending Machine in Ceiling Cavity, Pipe Insulation

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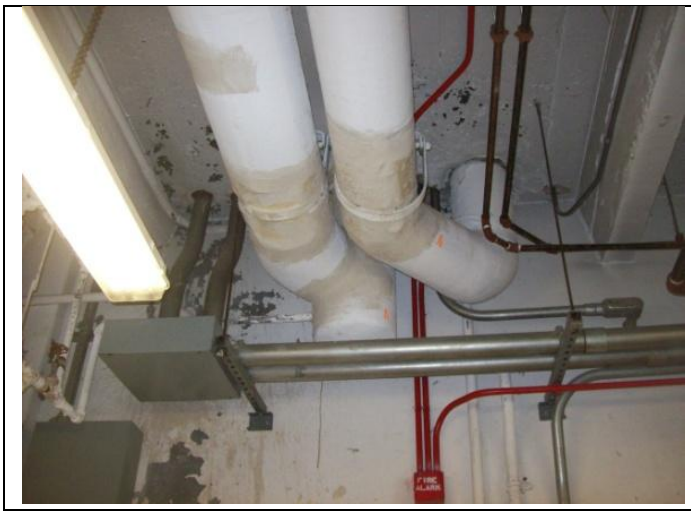
121. Assumed ACM, Engine Room 1st FL. Near Vending Machine in Ceiling Cavity, Pipe Fittings



122. Assumed ACM, Engine Room Basement South Ceiling, Pipe Insulation & Fittings

123. Assumed ACM, Engine Room Basement South Near Ceiling Over Stairway Entrance, Pipe Insulation & Fittings

124. Assumed ACM, Engine Room Basement South Near East Exterior Wall, Pipe Insulation

125. Assumed ACM, Engine Room Basement South Near East Exterior Wall, Pipe Fittings

126. ER-01-03, Engine Room Basement North On Ceiling, Felt Paper

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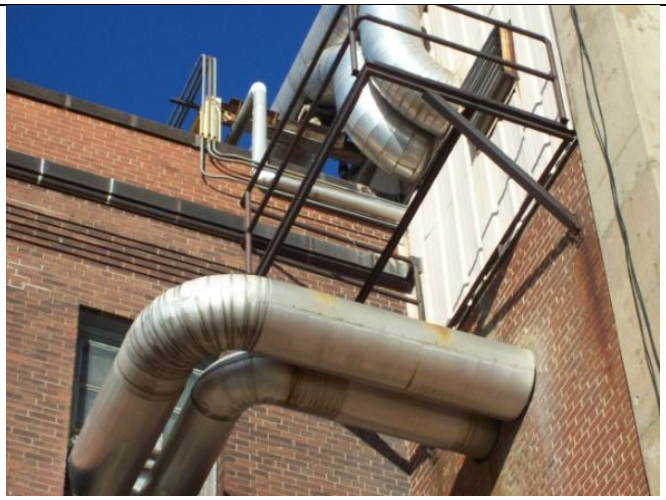
127. Assumed ACM, Boiler #4 4th FL. South End, Pipe Insulation

128. Assumed ACM, Boiler #4 4th FL. South End, Pipe Fittings

129. Assumed ACM, Boiler #4 4th FL./Penthouse Going Outside, Pipe Insulation



130. Assumed ACM, Boiler #4 4th FL./Penthouse Going Outside, Pipe Fittings

131. EX-01-03, Exterior Outside North Side Boilers #5&6, Flashing Material

132. EX-04-06, Exterior Old Side East Near Main Entrance, Window Caulking

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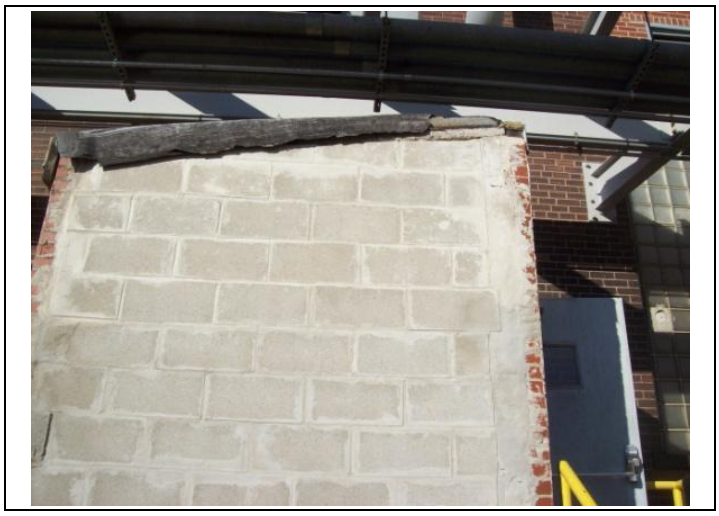
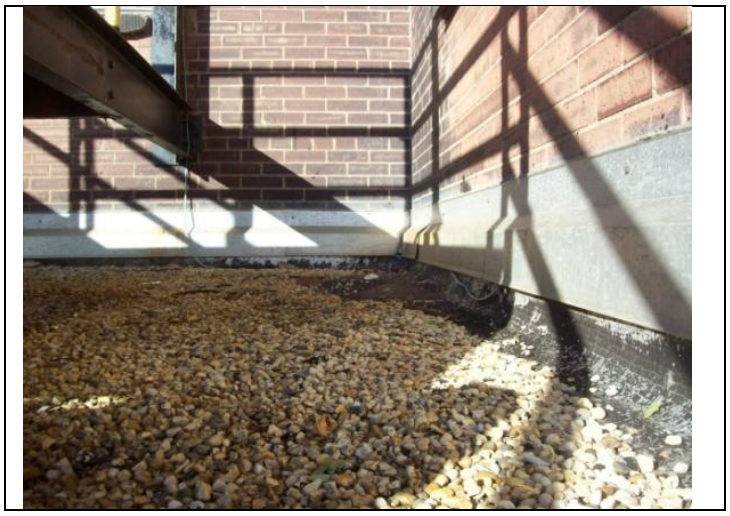


133. EX-07-09, Exterior. Over East Main Entrance to Old Side, Roofing Material



134. EX-10-12, Exterior SE Corner of Building 11 Ground FL., Roofing Flashing

135. EX-13-15, Exterior SE Corner of Building 11 Ground FL. (Behind Flashing), Roofing Felt Paper

136. Assumed ACM, Exterior 2 Pipes out of West Side Of Building's Engine Rm., Pipe Insulation & Fittings

137. EX-16-18, Exterior East Window Above 3rd FL. Office Space, Window Glaze

138. EX-19, Exterior Roof Access Room West, Pipe Fittings

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139. EX-20-22, Exterior Roof Inside Walls of Buildings, Insulation

140. EX-20-22, Exterior Roof Inside Walls & Pipes of Buildings, Insulation

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Building No. 11

BCM

BUILDING NO. 11

There were thirty-six (36) suspect ACMs identified during the survey. Homogeneous areas 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 17, 18, 19, 20, 21, 22, 25, 26, 27, 30, and 31 were sampled and tested positive for asbestos content. Homogeneous areas 35 and 36 were assumed to be asbestos-containing.

Removal is recommended for the following materials:

HA#	Material	Removal Cost	Replacement Cost
3	Hot water tank	$ 6,000.00	$ 2,000.00
5	6" pipe insulation	$ 60,000.00	$ 7,000.00
6	Boiler #1 breeching	$ 45,000.00	$15,000.00
7	Boiler #3 patch	$ 300.00	$ 100.00
8	Boiler #2 breeching	$ 45,000.00	$15,000.00
9	Boiler #3 breeching	$ 45,000.00	$15,000.00
10	Boiler exhaust	$240,000.00	$80,000.00
12	10" pipe fittings	$ 12,000.00	$ 1,050.00
18	Air duct	$ 36,000.00	$12,000.00
19	Boiler #4 breeching	$ 36,000.00	$12,000.00
20	6" oil supply pipe insulation	$ 3,000.00	$ 525.00
22	Blow down tanks	$ 24,000.00	$ 8,000.00
25	10" pipe insulation	$ 30,000.00	$ 3,500.00
26	Boiler #5 breeching	$ 45,000.00	$15,000.00
27	Boiler #6 breeching	$ 30,000.00	$10,000.00

Repair is recommended for homogeneous area 4.

Implementation of an O&M program is recommended for all other positive/assumed positive homogeneous areas.

Homogeneous areas 13, 15, 16, 23, 24, 28, 29, 32, 33, and 34 were sampled and proven to contain no asbestos.

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: MW

** Homogeneous Area 01 ENGINE ROOM Asbestos Form: MOLDED Asbestos Function: OTHER Recommended Action: O&M PROGRAM

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-4041	2	50 LF	EXHAUST MANIFOLDS
GL-2924	0	50 LF	EXHAUST MANIFOLDS
GL-8293	0	50 LF	EXHAUST MANIFOLD

** Homogeneous Area 02 ENGINE ROOM Asbestos Form: TROWLLED-ON Asbestos Function: OTHER Recommended Action: O&M PROGRAM

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-9630	0	75 SF	INSUL. STEAM TURBINE
GL-7656	5	75 SF	INSUL. STEAM TURBINE
GL-6393	2	75 SF	INSUL STEAM TURBINE

** Homogeneous Area 03 ENGINE ROOM Asbestos Form: TROWLLED-ON Asbestos Function: HOT WATER TANK Recommended Action: REMOVE

$$ REPLACE 2000.00 $$ REMOVAL 6000.00 $$ DESIGN 800.00 $$ TOTAL 8800.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-2750	70	200 SF	TANK IN E.R. BASEMEN
GL-1701	70	200 SF	TANK IN E.R. BSMT
GL-7524	32	200 SF	TANK IN E.R. BSMT

** Homogeneous Area 04 BASEMENT Asbestos Form: AIRCELL Asbestos Function: HI-TEMP HOT WATER LINE Recommended Action: REPAIR

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-6934	5	250 LF	AIRCELL PIPE INSUL
GL-6875	85	250 LF	AIRCELL PIPE INSUL
GL-3055	5	250 LF	AIRCELL PIPE INSUL

** Homogeneous Area 05 BASEMENT Asbestos Form: PREFORMED Asbestos Function: STEAM PIPE Recommended Action: REMOVE

$$ REPLACE 7000.00 $$ REMOVAL 60000.00 $$ DESIGN 6700.00 $$ TOTAL 73700.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-1924	65	4000 LF	MAG BLOCK PIPE INSUL
GL-7409	0	4000 LF	MAG BLOCK PIPE INSUL
GL-3528	22	4000 LF	MAG BLOCK PIPE INSUL

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: ER

** Homogeneous Area 06 BASEMENT Asbestos Form: TROWLLED-ON Asbestos Function: BOILER Recommended Action: REMOVE
$$ REPLACE 15000.00 $$ REMOVAL 45000.00 $$ DESIGN 6000.00 $$ TOTAL 66000.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-5137	30	1500 SF	BOILER #1 BREECHING
GL-2406	30	1500 SF	BOILER #1 BREECHING
GL-6721	20	1500 SF	BOILER #1 BREECHING

** Homogeneous Area 07 BASEMENT Asbestos Form: TROWLLED-ON Asbestos Function: BOILER Recommended Action: REMOVE
$$ REPLACE 100.00 $$ REMOVAL 300.00 $$ DESIGN 40.00 $$ TOTAL 440.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-1775	30	10 SF	PATCH ON BOILER #3

** Homogeneous Area 08 BASEMENT Asbestos Form: TROWLLED-ON Asbestos Function: BOILER Recommended Action: REMOVE
$$ REPLACE 15000.00 $$ REMOVAL 45000.00 $$ DESIGN 6000.00 $$ TOTAL 66000.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-2610	35	1500 SF	BOILER #2 BREECHING
GL-5218	20	1500 SF	BOILER #2 BREECHING
GL-9006	5	1500 SF	BOILER #2 BREECHING

** Homogeneous Area 09 BASEMENT Asbestos Form: TROWLLED-ON Asbestos Function: BOILER Recommended Action: REMOVE
$$ REPLACE 15000.00 $$ REMOVAL 45000.00 $$ DESIGN 6000.00 $$ TOTAL 66000.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-4872	25	1500 SF	BOILER #3 BREECHING
GL-2832	7	1500 SF	BOILER #3 BREECHING
GL-7221	12	1500 SF	BOILER #3 BREECHING

** Homogeneous Area 10 THIRD FLOOR Asbestos Form: TROWLLED-ON Asbestos Function: DUCT Recommended Action: REMOVE
$$ REPLACE 80000.00 $$ REMOVAL 24000.00 $$ DESIGN 10400.00 $$ TOTAL 114400.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-9591	12	8000 SF	EXHAUST FLUE 1,2,3
GL-5092	35	8000 SF	EXHAUST FLUE 1,2,3
GL-1230	35	8000 SF	EXHAUST FLUE 1,2,3

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: MW

** Homogeneous Area 11 FIRST FLOOR Asbestos Form: MOLDED Asbestos Function: HI-TEMP HOT WATER LINE Recommended Action: O&M PROGRAM
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-2543	2	30 LF	MUDDED FITTINGS
GL-9893	2	30 LF	MUDDED FITTINGS
GL-9786	0	30 LF	MUDDED FITTINGS

** Homogeneous Area 12 TOP LEVEL Asbestos Form: MOLDED Asbestos Function: STEAM PIPE Recommended Action: REMOVE
$$ REPLACE 1050.00 $$ REMOVAL 12000.00 $$ DESIGN 1305.00 $$ TOTAL 14355.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-1103	5	600 LF	MUDDED FITTINGS
GL-5488	20	600 LF	MUDDED FITTINGS
GL-1490	22	600 LF	MUDDED FITTINGS

** Homogeneous Area 13 SECOND FLOOR Asbestos Form: MOLDED Asbestos Function: HI-TEMP HOT WATER LINE Recommended Action: PREVENTIVE MEASURE
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-2885	0	50 LF	MUDDED FITTINGS
GL-9866	0	50 LF	MUDDED FITTINGS
GL-7310	0	50 LF	MUDDED FITTINGS

** Homogeneous Area 14 FIRST FLOOR Asbestos Form: MOLDED Asbestos Function: HI-TEMP HOT WATER LINE Recommended Action: O&M PROGRAM
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-4201	50	50 LF	MUDDED FITTINGS
GL-2725	30	50 LF	MUDDED FITTINGS
GL-8933	10	50 LF	MUDDED FITTINGS

** Homogeneous Area 15 FIRST FLOOR Asbestos Form: TROWLLED-ON Asbestos Function: HOT WATER TANK Recommended Action: PREVENTIVE MEASURE
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-7866	0	50 LF	FEED WATER HEAT TANK
GL-7398	0	50 SF	FEED WATER HEAT TANK

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: MW

GL-8396	0	50 SF	FEED WATER HEAT TANK

** Homogeneous Area 16 FIRST FLOOR Asbestos Form: MOLDED Asbestos Function: HI-TEMP HOT WATER LINE Recommended Action: PREVENTIVE MEASURE

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-7725	0	40 LF	MUDDED FITTINGS F.G.
GL-6808	0	40 LF	MUDDED FITTINGS F.G.
GL-7724	0	40 LF	MUDDED FITTINGS F.G.

** Homogeneous Area 17 ROOM B1-3 Asbestos Form: TROWLLED-ON Asbestos Function: HOT WATER TANK Recommended Action: O&M PROGRAM

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-2354	0	3000 SF	SURGE TANKS (3)
GL-5794	40	3000 SF	SURGE TANKS (3)
GL-9472	0	3000 SF	SURGE TANKS (3)

** Homogeneous Area 18 ROOM B4 Asbestos Form: TROWLLED-ON Asbestos Function: DUCT Recommended Action: REMOVE

$$ REPLACE 12000.00 $$ REMOVAL 36000.00 $$ DESIGN 4800.00 $$ TOTAL 52800.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-3505	30	1200 SF	AIR DUCT/BOILER #4
GL-8655	30	1200 SF	AIR DUCT/BOILER #4
GL-5880	32	1200 SF	AIR DUCT/BOILER #4

** Homogeneous Area 19 SECOND FLOOR Asbestos Form: TROWLLED-ON Asbestos Function: BOILER Recommended Action: REMOVE

$$ REPLACE 12000.00 $$ REMOVAL 36000.00 $$ DESIGN 4800.00 $$ TOTAL 52800.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-2943	30	1200 SF	BREECHING/BOILER #4
GL-2918	0	1200 SF	BROILER #4 BREECHING
GL-4044	50	1200 SF	BOILER #4 BREECHING

** Homogeneous Area 20 SECOND FLOOR Asbestos Form: PREFORMED Asbestos Function: OTHER Recommended Action: REMOVE

$$ REPLACE 525.00 $$ REMOVAL 3000.00 $$ DESIGN 352.50 $$ TOTAL 3877.50

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-9801	40	300 LF	OIL SUPPLY P.I.

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: MW

GL-7806	40	300 LF	OIL SUPPLY P.I.
GL-9937	40	300 LF	OIL SUPPLY P.I.

** Homogeneous Area 21 BASEMENT Asbestos Form: MOLDED Asbestos Function: OTHER Recommended Action: O&M PROGRAM

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-9479	30	25 LF	MUDDED PIPE FITTINGS
GL-9925	10	25 LF	MUDDED PIPE FITTINGS
GL-3678	10	25 LF	MUDDED PIPE FITTINGS

** Homogeneous Area 22 FIRST FLOOR Asbestos Form: TROWLLED-ON Asbestos Function: HOT WATER TANK Recommended Action: REMOVE

$$ REPLACE 8000.00 $$ REMOVAL 24000.00 $$ DESIGN 3200.00 $$ TOTAL 35200.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-5204	40	800 SF	BLOWN DOWN TANKS
GL-7585	40	800 SF	BLOW DOWN TANKS
GL-7624	40	800 SF	BLOW DOWN TANKS

** Homogeneous Area 23 FOURTH FLOOR Asbestos Form: MOLDED Asbestos Function: STEAM PIPE Recommended Action: PREVENTIVE MEASURE

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-3071	0	25 LF	MUDDED FITTINGS
GL-7195	0	25 LF	MUDDED FITTINGS
GL-7288	0	25 LF	MUDDED FITTINGS

** Homogeneous Area 24 BASEMENT Asbestos Form: BLANKET Asbestos Function: WALL INSULATION Recommended Action: PREVENTIVE MEASURE

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-7696	0	500 LF	WALL INSULATION
GL-5629	0	500 LF	WALL INSULATION
GL-8810	0	500 LF	WALL INSULATION

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: ER

** Homogeneous Area 25 THROUGHOUT BLDG Asbestos Form: PREFORMED Asbestos Function: STEAM PIPE Recommended Action: REMOVE

$$ REPLACE 3500.00 $$ REMOVAL 30000.00 $$ DESIGN 3350.00 $$ TOTAL 36850.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-1797	50	2000 LF	STEAM PIPE BLOCK INS
GL-5643	30	2000 LF	STEAM PIPE BLOCK INS
GL-6185	32	2000 LF	STEAM PIPING BL INSU

** Homogeneous Area 26 SECOND FLOOR Asbestos Form: MOLDED Asbestos Function: BOILER Recommended Action: REMOVE

$$ REPLACE 15000.00 $$ REMOVAL 45000.00 $$ DESIGN 6000.00 $$ TOTAL 66000.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-8314	32	1500 SF	BOILER # 5 BREECHING
GL-1370	12	1500 SF	BOILER #5 BREECHING
GL-3808	12	1500 SF	BOILER #5 BREECHING

** Homogeneous Area 27 FIRST FLOOR Asbestos Form: TROWLLED-ON Asbestos Function: BOILER Recommended Action: REMOVE

$$ REPLACE 10000.00 $$ REMOVAL 30000.00 $$ DESIGN 4000.00 $$ TOTAL 44000.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-1493	0	1000 SF	BOILER #6 BREECHING
GL-9793	30	1000 SF	BOILER #6 BREECHING
GL-9025	30	1000 SF	BOILER #6 BREECHING

** Homogeneous Area 28 OFFICE Asbestos Form: PREFORMED Asbestos Function: CEILING TILE Recommended Action: PREVENTIVE MEASURE

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-6657	0	1000 SF	2X4 CEILING TILE
GL-5363	0	1000 SF	2'X4' CEILING TILE
GL-9505	0	1000 SF	2'X4' CEILING TILE

** Homogeneous Area 29 MACHINE SHOP Asbestos Form: PREFORMED Asbestos Function: CEILING TILE Recommended Action: PREVENTIVE MEASURE

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-7181	0	500 SF	2'X4' CEILING TILE
GL-8221	0	500 SF	2'X4'CEILING TILE
GL-9769	0	500 SF	2'X4' CEILING TILE

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: MW

** Homogeneous Area 30 BREAK RM/LOCKER Asbestos Form: SHEET Asbestos Function: VINYL FLOORING Recommended Action: O&M PROGRAM
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-8544	2	3000 SF	12"X12" F.T. WHITE
GL-7562	2	3000 SF	12"X12" F.T. WHITE
GL-2710	2	3000 SF	12"X12" F.T. WHITE

** Homogeneous Area 31 LOCKER Asbestos Form: SHEET Asbestos Function: VINYL FLOORING Recommended Action: O&M PROGRAM
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-5035	2	200 SF	12"X12 F.T. GREEN
GL-1623	2	200 SF	12"X12" F.T. GREEN
GL-9613	2	200 SF	12"X12" F.T. GREEN

** Homogeneous Area 32 LOCKER Asbestos Form: OTHER Asbestos Function: OTHER Recommended Action: PREVENTIVE MEASURE
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-9299	0	200 LF	BASEBOARD MASTIC
GL-6412	0	200 LF	BASEBOARD MASTIC
GL-5935	0	200 LF	BASEBOARD MASTIC

** Homogeneous Area 33 STAIRWELL Asbestos Form: TROWLLED-ON Asbestos Function: SURFACE COATING Recommended Action: PREVENTIVE MEASURE
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-4063	0	5000 SF	WALL PLASTER
GL-6740	0	5000 SF	WALL PLASTER
GL-3005	0	5000 SF	WALL PLASTER

** Homogeneous Area 34 OFFICES Asbestos Form: SHEET Asbestos Function: OTHER Recommended Action: PREVENTIVE MEASURE
$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
GL-8782	0	2000 SF	DRYWALL & JNT COMPND
GL-8990	0	2000 SF	DRYWALL & JNT COMPND

UIC: N65113
Activity: NPWC
Building: 0011

Building Type: UTILITIES
Year Constructed: 1906
Inspector: MW

GL-5126	0	2000 SF	DRYWALL & JNT COMPND

** Homogeneous Area 35 ROOF Asbestos Form: OTHER Asbestos Function: OTHER Recommended Action: O&M PROGRAM

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
ASSUMED	26	56000 SF	ROOFING

** Homogeneous Area 36 ROOF Asbestos Form: OTHER Asbestos Function: OTHER Recommended Action: PREVENTIVE MEASURE

$$ REPLACE 0.00 $$ REMOVAL 0.00 $$ DESIGN 0.00 $$ TOTAL 0.00

SAMPLE #	%ASB	QUANTITY	SAMPLE DESCRIPTION
ASSUMED	26	5000 SF	ROOF FLASHING

NAVY FACILITY SAMPLING PLAN
BUILDING NO. 11
POWER PLANT

Homogeneous Area I.D. No.(1)	Location(1)	Description	Quantity(2)	Condition(3)	Exposure Potential(4)	No. of Samples(1)(5)(A)	
1	Engine Room	Exhaust Manifold	50 LF	PD	A	3	
2	Engine Room	Steam Turbine Insulation	75 SF	D	A	3	
3	Engine Room	Hot Water Tank	200 SF	D	A	3	
4	Basement	4" Pipe Insulation	250 LF	PD	A	3	+1
5	Basement	6" Pipe Insulation	4,000 LF	D	A	3	
6	Basement	Boiler #1 Breeching	1,000 SF	PSD	A	3	
7	Basement	Patch On Boiler	10 SF	PSD	A	1	
8	Basement	Boiler #2 Breeching	1,500 SF	PSD	A	3	
9	Basement	Boiler #3 Breeching	1,500 SF	D	A	3	
10	Third Floor	Boiler Exhaust	8,000 SF	PSD	A	3	
11	First Floor	Hard Fittings	30 LF	D	A	3	+1
12	Top Level	Fittings on 10" Line	600 LF	PSD	A	3	

(1) See attached floor plans for location.
(2) LF = Linear Feet; SF = Square Feet
(3) SD = Significant Damage
D = Damage
PSD = Potential Significant Damage
PD = Potential Damage
ND = No Damage
(4) A - Accessible Occupied
B - Accessible Unoccupied
C - Inaccessible - Likely to Contaminate Accessible Area
D - Inaccessible - Unlikely to Contaminate Accessible Area
(5) Samples indicated as "+1" indicate where quality control samples were collected.
(A) Assumed ACM.

NAVY FACILITY SAMPLING PLAN
BUILDING NO. 11 (CONTINUED)
POWER PLANT

Homogeneous Area I.D. No.(1)	Location(1)	Description	Quantity(2)	Condition(3)	Exposure Potential(4)	No. of Samples(1)(5)(A)	
13	Second Floor	4" Fittings on Fiberglass	50 LF	PSD	A	3	
14	First Floor	10" Fittings on Fiberglass	50 LF	PSD	A	3	
15	First Floor	Water Heater Tanks	50 SF	PSD	A	3	
16	First Floor	Fittings on Fiberglass	40 LF	D	A	3	
17	Room B1-3	Condensor Tanks	3,000 SF	PSD	A	3	
18	Room B4	Boiler #4 Exhaust	1,200 SF	PSD	A	3	+1
19	Second Floor	Boiler #4 Breeching	1,200 SF	PSD	A	3	
20	Second Floor	Oil Supply Pipe Insulation	300 LF	D	A	3	
21	Basement	Fittings on Oil Supply Pipes	25 LF	D	A	3	
22	First Floor	Blow Down Tank	800 SF	D	A	3	
23	Fourth Floor	3" Fittings on Fiberglass	25 LF	D	A	3	
24	Basement	Wall Insulation	500 SF	D	A	3	

(1) See attached floor plans for location.
(2) LF = Linear Feet; SF = Square Feet
(3) SD = Significant Damage
D = Damage
PSD = Potential Significant Damage
PD = Potential Damage
ND = No Damage
(4) A - Accessible Occupied
B - Accessible Unoccupied
C - Inaccessible - Likely to Contaminate Accessible Area
D - Inaccessible - Unlikely to Contaminate Accessible Area
(5) Samples indicated as "+1" indicate where quality control samples were collected.
(A) Assumed ACM.

NAVY FACILITY SAMPLING PLAN
BUILDING NO. 11 (CONTINUED)
POWER PLANT

Homogeneous Area I.D. No.(1)	Location(1)	Description	Quantity(2)	Condition(3)	Exposure Potential(4)	No. of Samples(1)(5)(A)	
25	Throughout Building	10" Steam Line	2,000 LF	D	A	3	+1
26	Second Floor	Boiler #5 Breeching	1,500 SF	PSD	A	3	
27	First Floor	Boiler #6 Breeching	1,000 SF	PSD	A	3	
28	Office	2'x4' Pitted Ceiling Tile	1,000 SF	ND	A	3	
29	Machine Shop	2'x4' Standard Ceiling Tile	500 SF	D	A	3	
30	Break Room/Locker	12"x12" White Floor Tile	3,000 SF	D	A	3	
31	Locker	12"x12" Green Floor Tile	200 SF	PD	A	3	+1
32	Locker	Baseboard/Mastic	200 LF	PD	A	3	
33	Stairwell	Wall Plaster	5,000 SF	PD	A	3	
34	Offices	Dry Wall/Joint Compound	2,000 SF	PD	A	3	
35	Roof	Roofing Material	56,000 SF	PD	D	A	
36	Roof	Roof Flashing	5,000 SF	PD	D	A	

(1) See attached floor plans for location.
(2) LF = Linear Feet; SF = Square Feet
(3) SD = Significant Damage
D = Damage
PSD = Potential Significant Damage
PD = Potential Damage
ND = No Damage
(4) A - Accessible Occupied
B - Accessible Unoccupied
C - Inaccessible - Likely to Contaminate Accessible Area
D - Inaccessible - Unlikely to Contaminate Accessible Area
(5) Samples indicated as "+1" indicate where quality control samples were collected.
(A) Assumed ACM.

5100/ 32 Form

ASBESTOS FACILITY RATING/RANKING FORM
(For summary of worst homogeneous area of each building)

UIC N65113 (101) Activity NPWC (102) Facility Rating Score 056 (201) Rank 1 (202) of 36 (203)

Claimant NAVFAC (103) EFD N62472 (104) Homogeneous area # 5 (204) Homo. area (SF/LF) 4000 (205)

POC GRIEG PYR (105) Phone 655-2465 (106) Bld. # 11 (107) Contains friable ACM [Yes/No] Y (206) Public access [Yes/No] Y (207)

Prop Rec # 200107 (108) Bldg area (SF) 56076 (109) Contractor & inspector name BCM ENGINEER (208) Survey date 2-25-9 (209)

Area Use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Inspector Signature, State of Accreditation/Accred. #

Jim Ramin

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

C (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

NJ (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boil
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other _____*

4000 (313A) L (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

6 (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

B (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low, [D] non

Damage: Percent/0 Extent: (a) localized___ (b)distributed___ Type: (a)Deteriorating___ (b)Water___ (c) Physical___
Amt. exposed (%):____ Amt. accessible (%):____ (within arms reach?) Potential for air erosion?____
Proximity to repair items?:____ Influence of vibration ?:____ Comments: PIPE INSULATION

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

K (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repai
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sampl
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	5	5	5						
Sample number	1924	7409	3528						
(%)	65 (341)	0 (343)	22 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	AB (342)	(344)	AB (346)	(348)	(350)	(352)	(354)	(356)	(358)

*Explain in commemts section on reverse of form if necessary.

A (359) RANGE: Enter letter for largest (%) [A] >40% [B] 15-40% [C] 1-15% [D] <1% [E] Non asbestos

Identify other homogeneous area numbers

Area #	25	10	19	9	3	27	26	18	17	14	8	6	22	21	20
	(360)	(362)	(364)	(366)	(368)	(370)	(372)	(374)	(376)	(378)	(380)	(382)	(384)	(386)	(388)
	D43	PSD43	PSD43	D39	D39	PSD39	PSD39	PSD39	PSD39	PSD39	PSD39	PSD39	D36	D36	D36

(390) code

DEPARTMENT OF THE NAVY 5829 GOVERNMENT

(CONTINUED)

ASBESTOS FACILITY RATING/RANKING FORM
(For summary of worst homogeneous area of each building)

UIC _____ 101 Activity _____ 102 Facility Rating Score _____ 201 Rank ___ 202 of ___ 203

Claimant _____ 103 EFD _____ 104 Homogeneous area # _____ 204 Homo. area (SF/LF) _____ 205

POC _____ 105 Phone _____ 106 Bld. # 11 107 Contains friable ACM [Yes/No] ____ 206 Public access [Yes/No] 207

Prop Rec # _____ 108 Bldg area (SF) _____ 109 Contractor & inspector name _____ 208 Survey date _____ 209

Area Use _____ 110 Cat Code _____ 111 Yr built _____ 112

Inspector Signature, State of Accreditation/Accred. #

_____

___ BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
301 [A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

___ BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
302 [A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

___ FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
303 [A] critical [B] essential [C] non-essential

___ ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
311 [D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

___ ASBESTOS FUNCTION: Enter one of following codes
312 [AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boil
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

___ QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping
313A 313B

___ DIAMETER in inches for piping.
314

___ QUANTITY RANGE: Enter letter for closest range
315 [A] >5000 units [B] 1000-5000 units [C] <1000 units

___ DEGREE OF FRIABILITY: Enter letter describing friability
316 [A] high [B] moderate [C] low [D] non

Damage: Percent___ Extent: (a) localized___ (b)distributed___ Type: (a)Deteriorating___(b)Water___(c) Physical___
Amt. exposed (%):_____ Amt. accessible (%):_____(within arms reach?) Potential for air erosion?____
Proximity to repair items?:____Influence of vibration ?:____Comments:_____

___ CONDITION: Enter letter describing condition
317 [A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

___ EXPOSURE POTENTIAL: Enter letter best describing exposure potential
318 [A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

___ PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos
319

___ PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
320 [A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

___ RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
330 [A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #									
Sample number									
(%)	341	343	345	347	349	351	353	355	357
TYPE	342	344	346	348	350	352	354	356	358

*Explain in comments section on reverse of form if necessary.

___ RANGE: Enter letter for largest (%) [A] >40% [B] 15-40% [C] 1-15% [D] <1% [E] Non asbestos
359

Identify other homogeneous area numbers															
Area #	7	12	4	11	2	1	30	35	31	36	29	24	23	16	15
	360	362	364	366	368	370	372	374	376	378	380	382	384	386	388
	PSD36	PSD36	PD34	D32	P32	PD22	D18	PD11	PD11	PD10	DO	DO	DO	DO	PSDO

(CONTINUED)

ASBESTOS FACILITY RATING/RANKING FORM
(For summary of worst homogeneous area of each building)

UIC _____ 101 Activity _____ 102 Facility Rating Score _____ 201 Rank ___ 202 of ___ 203

Claimant _____ 103 EFD _____ 104 Homogeneous area # _____ 204 Homo. area (SF/LF) _____ 205

POC _____ 105 Phone _____ 106 Bld. # 11 107 Contains friable ACM [Yes/No] ___ 206 Public access [Yes/No] 207

Prop Rec # _____ 108 Bldg area (SF) _____ 109 Contractor & inspector name _____ 208 Survey date _____ 209

Area Use _____ 110 Cat Code _____ 111 Yr built _____ 112

Inspector Signature, State of Accreditation/Accred. #

_____

___ BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
301 [A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

___ BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
302 [A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

___ FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
303 [A] critical [B] essential [C] non-essential

___ ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
311 [D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

___ ASBESTOS FUNCTION: Enter one of following codes
312 [AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boile
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other _____*

___ 313A ___ 313B QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ 314 DIAMETER in inches for piping.

___ QUANTITY RANGE: Enter letter for closest range
315 [A] >5000 units [B] 1000-5000 units [C] <1000 units

___ 316 DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

Damage: Percent___ Extent: (a) localized___ (b) distributed___ Type: (a) Deteriorating___ (b) Water___ (c) Physical___
Amt. exposed (%): ____ Amt. accessible (%): ____ (within arms reach?) Potential for air erosion? ___
Proximity to repair items?: ___ Influence of vibration ?: ___ Comments: _____

___ CONDITION: Enter letter describing condition
317 [A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

___ EXPOSURE POTENTIAL: Enter letter best describing exposure potential
318 [A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

___ PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos
319

___ PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
320 [A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

___ RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
330 [A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area # ____ ____ ____ ____ ____ ____ ____ ____ ____

Sample number ____ ____ ____ ____ ____ ____ ____ ____ ____

(%) ____ 341 ____ 343 ____ 345 ____ 347 ____ 349 ____ 351 ____ 353 ____ 355 ____ 357

TYPE ____ 342 ____ 344 ____ 346 ____ 348 ____ 350 ____ 352 ____ 354 ____ 356 ____ 358

*Explain in comments section on reverse of form if necessary.

___ 359 RANGE: Enter letter for largest (%) [A] >40% [B] 15-40% [C] 1-15% [D] <1% [E] Non asbestos

Identify other homogeneous area numbers — Area # 13 32 33 34 28
360 PSDO 362 PDO 364 PDO 366 PDO 368 NDO 370 372 374 376 378 380 382 384 386 388 390

5829

COMMENTS

Include comments on NAVOSH DAP/MIS format in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 1 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 708-688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use Public Works (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PD22 (201)

Homogeneous area # 01 (204) Homo. Area (SF/LF) 50 LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS (208) M WYCO

Inspector Signature, State of Accreditation/Accred. #
Mar Wyco

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

O (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boile
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other EXHAUST MANIFOLD INS.

50 (313A) LF (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

10 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 5 Extent: (a) localized X (b)distributed ___ Type: (a)Deteriorating ___ (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 10 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

EXHAUST MANIFOLDS ON EMERG. GENERATORS

D (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

H (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	01	01	01						
Sample number	GL4041	2994	8293						
(%)	2 (341)	0 (343)	0 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	A (342)	(344)	(346)	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH DAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 2 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

Rating Score D32 (201)

UIC N65113 (101) Activity NPWC (102)

Homogeneous area # 02 (204) Homo. Area (SF/LF) 75 SF (205)

Contains friable ACM [Yes/No] Y (206)

Claimant NAVFAC (103) EFD N62472 (104)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Inspector Signature, State of Accreditation/Accred. #
E Neoschlag

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Survey date 2-23-91 → 2-25-91 (209)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

O (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other TURBINE INSUL.*

75 (313A) SF (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 3 Extent: (a) localized X (b) distributed ___ Type: (a) Deteriorating X (b) Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 100 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments:
INSULATION ON STEAM TURBINE GENERATORS.

R (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

H (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	02	02	02						
Sample number (L)	9630	7656	6393						
(%)	0 (341)	5 (343)	2 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	(342)	A (344)	A (346)	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH DAP/MIS for... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 03 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC (101) N65113 Activity (102) NPWC

Claimant (103) NAVFAC EFD (104) N62472

POC (105) Greg Pye Phone (106) 688-2465 Bldg # (107) 11

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

Rating Score (201) D39

Homogeneous area # (204) 03 Homo. Area (SF/LF) (205) 200

Contains friable ACM [Yes/No] (206) Y

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

Inspector Signature, State of Accreditation/Accred. #

Survey date (209) 2-23-91 → 2-25-91

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

JT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other _____*

200 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 3 Extent: (a) localized ___ (b) distributed X Type: (a) Deteriorating ___ (b) Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? N
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

HOT WATER/CONDENSATE TANK IN ENGINE ROOM BASEMENT.

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

B/K (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	03	03	03						
Sample number	GL-2750	1701	7524						
(%)	70 (341)	70 (343)	32 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	25 AB (342)	65 AB (344)	30 AB (346)	(348)	(350)	(352)	(354)	(356)	(358)
	45	5	2						

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
6000	2000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 04 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PD34 (201)

Homogeneous area # 04 (204) Homo. Area (SF/LF) 250 LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of/Accreditation/Accred. # E. Redsdley

Survey date 2-23-91 - 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

D (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

FT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

250 LF (313A 313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

4" (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

B (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 5 Extent: (a) localized X (b)distributed ___ Type: (a)Deteriorating ___ (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 100 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

AIRCELL PIPE INSULATION

D (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

F (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	04	04	04						
Sample number	GL 6934	6875	3055						
(%)	5 (341)	85 (343)	5 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	A (342)	A (344)	A (346)	(348)	(350)	(352)	(354)	(356)	(358)

DEPARTMENT OF THE NAVY 5829 COPIES

Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 05 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC GREG PYE (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score B 56 (201)

Homogeneous area # 05 (204) Homo. Area (SF/LF) 4000LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. # E. Kedschlag

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

C (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

NT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

4000 L (313A 313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

6 (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

B (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 10 Extent: (a) localized ___ (b)distributed X Type: (a)Deteriorating ___ (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 50 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

MAG BLOCK STEAM PIPE INSULATION.

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

B K (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	05	05	05							
Sample number GL	1924	7409	3528							
(%)	65 (341)	0 (343)	22 (345)	(347)	(349)	(351)	(353)	(355)	(357)	
TYPE	60 AB (342)	(344)	2 AB (346)	(348)	(350)	(352)	(354)	(356)	(358)	
	5		20							

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Include comments on NAVOSH OAP/MIS for... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
6000	7000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 06 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

Rating Score (201) PSD 39

Homogeneous area # (204) 06 Homo. Area (SF/LF) (205) 15005F

Contains friable ACM [Yes/No] (206) Y

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

Inspector Signature, State of Accreditation/Accred. # E Redochlag

UIC (101) N65113 Activity (102) NPWC

Claimant (103) NAVFAC EFD (104) N62472

POC (105) Greg Pye Phone (106) 688-2465 Bldg # (107) 11

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

Survey date (209) 2-23-91 → 2-25-91

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

KT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

1500 S (313A 313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

CB (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 1 Extent: (a) localized ___ (b)distributed X Type: (a)Deteriorating ___ (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____
Boiler # 1 Breeching

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

B K (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	06	06	06						
Sample number	G-L-5137	2406	6721						
(%)	30 (341)	30 (343)	20 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	20 AB (342) 10	20 AB (344) 10	15 AB (346) 5	(348)	(350)	(352)	(354)	(356)	(358)

5829 COPIES

Include comments on NAVOSH DAP/MIS for... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
45,000	15,000

NAVFAC FORM 5100/31 rev 05/01/89

5829 COPIES

ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 07 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC 101 N65113 Activity 102 NPWC

Claimant 103 NAVFAC EFD 104 N62472

POC 105 Greg Pye Phone 106 688-2465 Bldg # 107 11

Prop Rec # 108 200107 Bldg. Area (SF) 109 56,076

Area use 110 PW Cat Code 111 82109 Yr built 112 1906

Rating Score 201 PSD 36

Homogeneous area # 204 07 Homo. Area (SF/LF) 205 10

Contains friable ACM [Yes/No] 206 Y

Public access [Yes/No] 207 N

Contractor & inspector name 208 BCM ENGINEERS, M WYCO

Inspector Signature, State of Accreditation/Accred. #

Survey date 209 2-23-91 → 2-25-91

E 301 BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F 302 BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A 303 FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G 311 ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

KT 312 ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

10 313A SF 313B QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

___ 314 DIAMETER in inches for piping.

C 315 QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C 316 DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 3 Extent: (a) localized X (b)distributed __ Type: (a)Deteriorating __ (b)Water __ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 100 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments:
PATCH ON BOILER # 3

C 317 CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A 318 EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 319 PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C 320 PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK 330 RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	07								
Sample number	GL-1775								
(%)	30								
	341	343	345	347	349	351	353	355	357
TYPE	20 AB								
	342	344	346	348	350	352	354	356	358

10

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

PATCH, ONLY ONE SAMPLE COLLECTED.

REMOVAL	REPLACE
300	100

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 08 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score BD39 (201)

Homogeneous area # 08 (204) Homo. Area (SF/LF) 1500SF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 - 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

KT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other _____*

1500 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 3 Extent: (a) localized ___ (b) distributed X Type: (a) Deteriorating ___ (b) Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

BOILER BREECHING BOILER #2

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	08	08	08							
Sample number	G-L 2610	5218	9006							
(%)	35 (341)	20 (343)	5 (345)	(347)	(349)	(351)	(353)	(355)	(357)	
TYPE	A (342)	15 AB (344)	A (346)	(348)	(350)	(352)	(354)	(356)	(358)	

5

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

BOILER BRICK & INTERNAL INSULATION UNDER ABATEMENT AT TIME OF SURVEY.

REMOVAL	REPLACE
45000	15,000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 09 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

Rating Score (201) D39

UIC (101) N65113 Activity (102) NPWC

Homogeneous area # (204) 09 Homo. Area (SF/LF) (205) 1500 SF

Contains friable ACM [Yes/No] (206) Y

Claimant (103) NAVFAC EFD (104) N62472

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

POC (105) Greg Pye Phone (106) 688-2465 Bldg # (107) 11

Inspector Signature, State of Accreditation/Accred. #

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Survey date (209) 2-23-91 → 2-25-91

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

KT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BI]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

1500 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 3 Extent: (a) localized ___ (b) distributed X Type: (a) Deteriorating X (b) Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? X
Proximity to repair items?: Y Influence of vibration ?: Y Comments:
BREECHING, BOILER # 3

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

B K (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	04	09	04						
Sample number	4822	2822	7221						
(%)	25 (341)	7 (343)	12 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	20 AB (342)	5 AB (344)	10 AB (346)	(348)	(350)	(352)	(354)	(356)	(358)
	5	2	2						

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Include comments on NAVOSH DAP/MIS for... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
45000	15000

NAVFAC FORM 5100/31 rev 05/01/89

Department of Industrial Hygiene 58293 COPIES

ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 10 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score ~~4~~ PSD43 (201)

Homogeneous area # 10 (204) Homo. Area (SF/LF) 8000 SF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 - 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

ET (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [QM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

8000 S (313A 313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

___ (314) DIAMETER in inches for piping.

A (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 3 Extent: (a) localized ___ (b)distributed X Type: (a)Deteriorating X (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 10 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: X Influence of vibration ?: Y Comments:

Boiler EXHAUST FLUE FOR BOILERS 1, 2 & 3

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	10	10	10						
Sample number GL-	9591	5092	1230						
(%)	12 (341)	35 (343)	35 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	10 AB (342)	B (344)	B (346)	(348)	(350)	(352)	(354)	(356)	(358)

2

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
240,000	80,000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 11 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score D32 (201)

Homogeneous area # 11 (204) Homo. Area (SF/LF) 30 LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #
E Redschlag

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

FT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other_____*

30 (313A) L (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

4 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 15 Extent: (a) localized ___ (b)distributed X Type: (a)Deteriorating X (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments:
MUDDED FITTINGS ON AIRCELL

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

H (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	11	11	11						
Sample number	GL-2543	9893	9786						
(%) (341, 343, 345, 347, 349, 351, 353, 355, 357)	2	2	0						
TYPE (342, 344, 346, 348, 350, 352, 354, 356, 358)	A	A							

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Include comments on NAVOSH DAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 12 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC (101) N65113 Activity (102) NPWC

Claimant (103) NAVFAC EFD (104) N62472

POC (105) Greg Pye Phone (106) 688-2465 Bldg. # (107) 11

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

Rating Score (201) PSD 36

Homogeneous area # (204) 12 Homo. Area (SF/LF) (205) 600 LF

Contains friable ACM [Yes/No] (206) Y

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

Inspector Signature, State of Accreditation/Accred. #
E. Redschlag

Survey date (209) 2-23-91 - 2-25-91

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

MT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

600 (313A) L (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

10 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent___ Extent: (a) localized___ (b)distributed___ Type: (a)Deteriorating___ (b)Water___ (c) Physical___
Amt. exposed (%):____ Amt. accessible (%):_____ (within arms reach?) Potential for air erosion?____
Proximity to repair items?:____ Influence of vibration ?:___ Comments:_____

MUDDED FITTINGS ON MAG BLOCK INSULATED STEAM LINES.

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	12	12	12						
Sample number GL	1103	5485	1490						
(%)	5 (341)	20 (343)	22 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	A (342)	B (344)	2 AB (346)	(348)	(350)	(352)	(354)	(356)	(358)

20

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Include comments on NAVOSH DAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
12000	1050

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 13 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PSD 0 (201)

Homogeneous area # 13 (204) Homo. Area (SF/LF) 50 LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #
E. Redschlag

Survey date 2-23-91 - 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

FT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

50 (313A) L (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

4 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 0 Extent: (a) localized ___ (b)distributed ___ Type: (a)Deteriorating ___ (b)Water ___ (c) Physical ___
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

MUDDED FITTINGS ON FIBERGLASS INSULATED STEAM LINES.

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

G (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	13	13	13						
Sample number	GL-2885	9866	7310						
(%)	0	0	0						
	341	343	345	347	349	351	353	355	357
TYPE									
	342	344	346	348	350	352	354	356	358

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Include comments on NAVOSH DAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

5829 COPIES

ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 14 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Rye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PSD39 (201)

Homogeneous area # 14 (204) Homo. Area (SF/LF) 50 (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other ____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other ____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other ____*

FJ (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other ____*

50 (313A) C (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

10 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 0 Extent: (a) localized ___ (b) distributed ___ Type: (a) Deteriorating ___ (b) Water ___ (c) Physical ___
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: ____

MUDDED FITTINGS ON FIBERGLASS ON HEAT EXCHANGE SYSTEM.

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

H (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other ____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	14	14	14						
Sample number GL-	4201	2725	8433						
(%)	50 (341)	30 (343)	10 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	A (342)	A (344)	A (346)	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH DAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 15 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PSDO (201)

Homogeneous area # 15 (204) Homo. Area (SF/LF) 50 (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

JT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

50 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping. ___ (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent___ Extent: (a) localized___ (b)distributed___ Type: (a)Deteriorating___ (b)Water___ (c) Physical___
Amt. exposed (%): 3 Amt. accessible (%): 3 (within arms reach?) Potential for air erosion? N
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

FEED WATER HEATER TANKS

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

G (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	15	15	15						
Sample number	GC-7866	7398	8396						
(%)	0 (341)	0 (343)	0 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	(342)	(344)	(346)	(348)	(350)	(352)	(354)	(356)	(358)

ASBESTOS TEAM DEPARTMENT OF THE NAVY 5829 COPIES

Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 16 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC (101) N65113 Activity (102) NPWC

Claimant (103) NAVFAC EFD (104) N62472

POC (105) Greg Pye Phone (106) 688-2465 Bldg # (107) 11

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

Rating Score (201) 00

Homogeneous area # (204) 16 Homo. Area (SF/LF) (205) 40L

Contains friable ACM [Yes/No] (206) Y

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

Inspector Signature, State of Accreditation/Accred. #

Survey date (209) 2-23-91 → 2-25-91

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

FT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

40 (313A) L (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

B (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 5 Extent: (a) localized X (b)distributed ___ Type: (a)Deteriorating ___ (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 50 (within arms reach?) Potential for air erosion? N
Proximity to repair items?: Y Influence of vibration ?: Y Comments:

MUDDED FITTINGS ON FIBERGLASS INSULATION ON FEEDWATER SYS.

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

G (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	16	16	16						
Sample number GL	7725	6808	7724						
(%) (341, 343, 345, 347, 349, 351, 353, 355, 357)	0	0	0						
TYPE (342, 344, 346, 348, 350, 352, 354, 356, 358)									

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 17 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PSD 39 (201)

Homogeneous area # 17 (204) Homo. Area (SF/LF) 3000 SF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

J,T (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

3000 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 1 Extent: (a) localized ___ (b)distributed X Type: (a)Deteriorating X (b)Water X (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 10 (within arms reach?) Potential for air erosion? X
Proximity to repair items?: Y Influence of vibration ?: Y Comments:

CONDENSOR / SURGE TANKS (3)

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

H (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	17	17	17						
Sample number GC	2354	5794	9472						
(%)	0 (341)	40 (343)	0 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	(342)	A (344)	(346)	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH OAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 18 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PSD 39 (201)

Homogeneous area # 18 (204) Homo. Area (SF/LF) 2005 (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

ET (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

1200 S (313A 313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 0 Extent: (a) localized___ (b)distributed___ Type: (a)Deteriorating___ (b)Water___ (c) Physical___
Amt. exposed (%): 100 Amt. accessible (%): 53 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments:

AIR DUCT / BOILER 4

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	18	18	18						
Sample number	GL 3505	8655	5880						
(%)	30 (341)	30 (343)	32 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	A (342)	A (344)	30 AB (346)	(348)	(350)	(352)	(354)	(356)	(358)

2

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Include comments on NAVOSH DAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
36000	12000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 19 of 36

Request activity fill out numbers 101-112 prior to inspection.

Rating Score (201) PSD 43

UIC (101) N65113 Activity (102) NPWC

Homogeneous area # (204) 19 Homo. Area (SF/LF) (205) 1200SF

Contains friable ACM [Yes/No] (206) Y

Claimant (103) NAVFAC EFD (104) N62472

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

POC (105) Greg Pye Phone (106) 688-2465 Bldg # (107) 11

Inspector Signature, State of Accreditation/Accred. #

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Survey date (209) 2-23-91 - 2-25-91

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

KT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

1200 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 0 Extent: (a) localized ___ (b)distributed ___ Type: (a)Deteriorating ___ (b)Water ___ (c) Physical ___
Amt. exposed (%): 100 Amt. accessible (%): 25 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

BREECHING / BOILER #4

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

B/K (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	19	19	19						
Sample number	GL-2943	2918	4094						
(%)	30 (341)	0 (343)	50 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	A (342)	(344)	AB (346)	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
36000	12000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 20 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score D36 (201)

Homogeneous area # 20 (204) Homo. Area (SF/LF) 300LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

C (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

O (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other OIL PIPELINE INSU.*

300 (313A) L (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping. 6 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 2 Extent: (a) localized X (b)distributed __ Type: (a)Deteriorating __ (b)Water __ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? N
Proximity to repair items?: Y Influence of vibration ?: Y Comments:

OIL SUPPLY P.I.

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	20	20	20							
Sample number	GL-9801	7806	9937							
(%)	40 (341)	40 (343)	40 (345)	(347)	(349)	(351)	(353)	(355)	(357)	
TYPE	30 AB (342) 10	30 AB (344) 10	30 AB (346) 10	(348)	(350)	(352)	(354)	(356)	(358)	

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Include comments on NAVOSH DAP/MIS for... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
3000	525

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet #21 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688- (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score D36 (201)

Homogeneous area # 21 (204) Homo. Area (SF/LF) 25 LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 - 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

O (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other OIL SUPPLY FITTING*

25 (313A) L (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

6 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 2 Extent: (a) localized X (b) distributed ___ Type: (a) Deteriorating ___ (b) Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? N
Proximity to repair items?: Y Influence of vibration ?: Y Comments:

MUDDED PIPE FITTING ON OIL SUPPLY PIPES.

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

H (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	21	21	21						
Sample number GL-	9479	9425	3578						
(%)	30 (341)	10 (343)	10 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	A (342)	A (344)	A (346)	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH DAP/MIS for... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 22 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score D36 (201)

Homogeneous area # 22 (204) Homo. Area (SF/LF) 800 SF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS (208) M WYCO

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other_____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other_____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

G (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other_____*

JT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other _____*

800 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 10 Extent: (a) localized ___ (b) distributed X Type: (a) Deteriorating X (b) Water ___ (c) Physical X
Amt. exposed (%): 75 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments:

DA & BLOWDOWN TANKS IN NGU AREA

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other_____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	22	22	22						
Sample number GL	5204	7585	7624						
(%)	40 (341)	40 (343)	40 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	30 AB (342) 10	30 AB (344) 10	30 AB (346) 10	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH DAP/MIS for... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
24000	8000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 23 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score D 0 (201)

Homogeneous area # 23 (204) Homo. Area (SF/LF) 25 (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

NT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [GM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line [GS] surface coating [HM]ceiling tile [IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing [MM] vinyl flooring [NT]steam pipe [O]other _____*

25 (313A) C (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

3 (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

B (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 10 Extent: (a) localized ___ (b) distributed X Type: (a) Deteriorating X (b) Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

MUDDED FITTINGS ON FIBERGLASS INSULATED STEAM LINES IN NEW ARPA.

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

G (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	23	23	23						
Sample number GL	3071	7195	7288						
(%)	0	0	0						
	341	343	345	347	349	351	353	355	357
TYPE									
	342	344	346	348	350	352	354	356	358

5829 COPIER

Include comments on NAVOSH OAP/MIS form... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet #24 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC (101) N65113 Activity (102) NPWC

Claimant (103) NAVFAC EFD (104) N62472

POC (105) Greg Pye Phone (106) 688-2465 Bldg # (107) 11

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

Rating Score (201) DO

Homogeneous area # (204) 24 Homo. Area (SF/LF) (205) 500

Contains friable ACM [Yes/No] (206) Y

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

Inspector Signature, State of Accreditation/Accred. #

Survey date (209) 2-23-91 → 2-25-91

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

A (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

BT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

500 (313A) C (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

C (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

D (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 5 Extent: (a) localized X (b)distributed X Type: (a)Deteriorating X (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 100 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments:

WALL INSULATION NEAR OIL HEATER IN BASEMENT.

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

G (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	24	24	24						
Sample number GL	7696	5629	8810						
(%)	0 (341)	0 (343)	0 (345)	(347)	(349)	(351)	(353)	(355)	(357)
TYPE	(342)	(344)	(346)	(348)	(350)	(352)	(354)	(356)	(358)

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Include comments on NAVOSH DAP/MIS form in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 21 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score D 43 (201)

Homogeneous area # 25 (204) Homo. Area (SF/LF) 2000LF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #
E. Redschlag

Survey date 2-23-91 - 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

C (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

NT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles [JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

2000 LF (313A 313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping

10 (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

G (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 10 Extent: (a) localized X (b)distributed ___ Type: (a)Deteriorating ___ (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 50 (within arms reach?) Potential for air erosion? N
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

STEAM PIPING BLOCK INSULATION NEW AREA

B (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action.
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	25	25	25							
Sample number	GL 1747	5643	6185							
(%)	50 (341)	30 (343)	32 (345)	(347)	(349)	(351)	(353)	(355)	(357)	
TYPE	30 AB (342)	20 AB (344)	2 AB (346)	(348)	(350)	(352)	(354)	(356)	(358)	
	20	10	30							

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
30000	3500

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 26 of 36

Request activity fill out numbers 101-112 prior to inspection.

UIC N65113 (101) Activity NPWC (102)

Claimant NAVFAC (103) EFD N62472 (104)

POC Greg Pye (105) Phone 688-2465 (106) Bldg # 11 (107)

Prop Rec # 200107 (108) Bldg. Area (SF) 56,076 (109)

Area use PW (110) Cat Code 82109 (111) Yr built 1906 (112)

Rating Score PSD 39 (201)

Homogeneous area # 26 (204) Homo. Area (SF/LF) 1500SF (205)

Contains friable ACM [Yes/No] Y (206)

Public access [Yes/No] N (207)

Contractor & inspector name BCM ENGINEERS, M WYCO (208)

Inspector Signature, State of Accreditation/Accred. #

Survey date 2-23-91 → 2-25-91 (209)

E (301) BUILDING TYPE: (Determine during pre-inspection meeting) Enter one of following letters
[A] operations/training [B] housing or community [C] research/test [D] supply [E] utilities
[F] maintenance/production [G] administrative [H] medical/dental [I] other _____*

F (302) BUILDING DESC.: (Determine during pre-inspection meeting) Enter one of following letters
[A] cafeteria [B] penthouse [C] attic [D] classroom [E] mechanical [F] boiler [G] locker room
[H] storage [I] office [J] gym [K] shop [L] laboratory [M] dormitory [N] shower room
[O] lavatory [P] hall/lobby [Q] plenum [R] crawl space [S] auditorium [T] hanger bay [U] other _____

A (303) FACILITY CRITICALITY: (Determine during pre-inspection meeting) Enter one of following letters
[A] critical [B] essential [C] non-essential

B (311) ASBESTOS FORM: Enter one of following letters [A]blanket [B]molded [C]preformed
[D]aircell [E]sheet [F]sprayed-on [G]trowelled-on [H]loose fill [I]other _____*

KT (312) ASBESTOS FUNCTION: Enter one of following codes
[AS]acoustical insulation [BT]wall insulation [CM]gasket/seal [PM]transite [DM]asbestos-cement pipe [ET]duct
[FT]hi-temp hot water line[GS] surface coating[HM]ceiling tile[IM]shingles-[JT]hot water tank [KT]boiler
[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

1500 S (313A 313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

B (315) QUANTITY RANGE: Enter letter for closest range
[A] >5000 units [B] 1000-5000 units [C] <1000 units

C (316) DEGREE OF FRIABILITY: Enter letter describing friability
[A] high [B] moderate [C] low [D] non

DAMAGE: Percent 1 Extent: (a) localized ___ (b)distributed X Type: (a)Deteriorating X (b)Water ___ (c) Physical X
Amt. exposed (%): 100 Amt. accessible (%): 50 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments: _____

BREECHING INSUL. BOILER # 5

C (317) CONDITION: Enter letter describing condition
[A] significantly damaged ACM [B] damaged ACM [C] ACBM w/potential for significant damage
[D] ACBM w/potential for damage [E] no damage or no potential for damage

A (318) EXPOSURE POTENTIAL: Enter letter best describing exposure potential
[A] accessible/occupied [B] accessible/unoccupied [C] inaccessible/likely [D] inaccessible/unlikely

25 (319) PERSONS POTENTIALLY EXPOSED, ACTUAL: Enter the actual number of persons potentially exposed to asbestos

C (320) PERSONS POTENTIALLY EXPOSED, RANGE: Enter letter of the range that best describes answer above (318)
[A] >100 people [B] 40-100 people [C] 10-40 people [D] <10 people

BK (330) RECOMMENDED ACTION: Enter one or more letters that best describe priorities for recommended action
[A] immediate action [B] planned action [C] isolate area [D] restrict access [E] cleanup area [F] repair
[G] preventive measures [H] O&M program [I] encapsulation [J] enclose [K] remove [L] other _____

In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	26	26	26							
Sample number GL-	8314	1370	3808							
(%)	32 (341)	12 (343)	12 (345)		(347)	(349)	(351)	(353)	(355)	(357)
TYPE	2 AB (342)	10 AB (344)	10 AB (346)		(348)	(350)	(352)	(354)	(356)	(358)
	30	2	2							

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Include comments on NAVOSH DAP/MIS for.... in appropriate narrative sections

Laboratory name and address: BCM Laboratory Division
1850 Gravers Road
Norristown, Pa. 19401
(215) 275-0281

BOILER PLANT IS MANNED 24 HRS A DAY

REMOVAL	REPLACE
45000	15000

NAVFAC FORM 5100/31 rev 05/01/89

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ASBESTOS FACILITY INVENTORY FORM
(For each homogeneous area) Sheet 27 of 36

Request activity fill out ~~numbers~~ 101-112 prior to inspection.

Rating Score (201) BD 39

UIC (101) N65113 Activity (102) NPWC

Homogeneous area # (204) 27 Homo. Area (SF/LF) (205) 1000 SF

Contains friable ACM [Yes/No] (206) Y

Claimant (103) NAVFAC EFD (104) N62472

Public access [Yes/No] (207) N

Contractor & inspector name (208) BCM ENGINEERS, M WYCO

POC (105) Greg Pye Phone (106) 688-2465 Bldg # (107) 11

Inspector Signature, State of Accreditation/Accred. #
M Wyco

Prop Rec # (108) 200107 Bldg. Area (SF) (109) 56,076

Survey date (209) 2-23-91 → 2-25-91

Area use (110) PW Cat Code (111) 82109 Yr built (112) 1906

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[LS]structure fireproofing[MM] vinyl flooring [NT]steam pipe [O]other _____*

1000 (313A) S (313B) QUANTITY: Enter quantity with S for sq. ft. or L for linear feet of piping ___ (314) DIAMETER in inches for piping.

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Amt. exposed (%): 100 Amt. accessible (%): 75 (within arms reach?) Potential for air erosion? Y
Proximity to repair items?: Y Influence of vibration ?: Y Comments:
BREECHING / BOILER # 6

C (317) CONDITION: Enter letter describing condition
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[D] ACBM w/potential for damage [E] no damage or no potential for damage

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In (%), enter actual percent of asbestos in sample. In TYPE, enter letter describing type of asbestos in sample
[A] chrysotile [B] amosite [C] tremolite [D] crocidolite [E] anthophylite [F] actinolite

Homogeneous area #	27	27	27							
Sample number	GL-1493	9793	9025							
(%)	0 (341)	30 (343)	30 (345)	(347)	(349)	(351)	(353)	(355)	(357)	
TYPE	(342)	10 AB (344) 20	5 AB (346) 25	(348)	(350)	(352)	(354)	(356)	(358)	

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REMOVAL	REPLACE
30000	10000

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