City Of Milwaukee
Department Of Public Works
Bureau Of Bridges And Public Buildings

O&M REPAIR WORK ORDER REPORT
&
INITIAL AND PERIODIC CLEANING REPORT

Based On And Supplemental To The
ASBESTOS MANAGEMENT PLAN REPORT
For

Building No. 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

July, 1990

July 17, 1990

O&M REPAIR WORK ORDER

The following report is a listing of the areas that require O&M and have a response action that includes repair. They are **NOT** sorted in priority order. They are sorted according to the **Area ID**. This report is provided to the appropriate authorities for work execution by certified asbestos workers.

Friable and/or damaged ACBM requiring response actions beyond O&M are not listed in this report (See the "Scoped Response Option Form" in the Asbestos Management Plan Report [under separate cover]).

All data on this report is identical in format to the "ACBM/Response Option Summary Report" found in the Asbestos Management Plan (under separate cover).

Note: If the O&M Repair Work Order Report is not present, then no ACBM currently require repair.

CITY OF MILWAUKEE WORK ORDER/SUB-DEPT REQ #_____
O&M REPAIR WORK ORDER REPORT - AREAS w/ACBM REQUIRING REPAIR

Bldg. No.	Building Name	Area ID	H-Zone Code & ACBM Disposition		Homogeneous Zone/ Bldg. Material Description	Fri Dam	1-7	Rch	Deb	Vib	Air	Response, Notes/Comments	Quantity
1069	EAST LIBRARY	115	T-DC1	(PROVEN)	DUCT CONNECTORS [Flexible Vibration Isolators], woven	Y	Y	1	Y	N	Y	F1RVH	1 EA
			T-PFIFS	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller	Y	Y	1	Y	N	Y	F1RV	75 EA
												4 EA. @ PIPE & DUCTWORK JUNCTION	
		Count 2											
		B1	T-PFIFS	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller	Y	Y	1	Y	N	N	F1R	86 EA
												CRAWL SPACE, ACCESS THROUGH PANEL IN AREA 115	

Count 3

REPAIRS
(Sorted By Area ID)

Page 1

AREAS THAT REQUIRE INITIAL AND PERIODIC CLEANING

The following report is a listing of all the rooms (Areas) that require initial cleaning as defined by AHERA and is issued to the appropriate authorities for implementation. Unless the areas have been cleaned using equivalent methods within the previous six months, all areas of a building where friable ACBM, damaged or significantly damaged thermal system insulation ACM are present shall be cleaned at least once after completion of the inspection required by AHERA part 763.85(a) and before the initiation of any response action, other than O&M activities or repair, according to the following procedures:

- HEPA vacuum or steam clean all carpets.
- HEPA vacuum or wet-clean all other floors and other horizontal surfaces.
- Dispose of all debris, filters, mop heads, and cloths in sealed, leaktight containers.

In general additional cleaning is required on a semiannual basis for those occupied areas that contain friable surfacing ACBM which has never been encapsulated. During the six month surveillance inspections, areas that contain previously encapsulated surfacing ACBM as well as other friable ACBM will be evaluated to determine if periodic cleaning is required more often than annually.

(A "log" for tracking the initial and periodic cleaning record is provided on the following page.)

<u>Note:</u> If the "Initial & Periodic Cleaning Report" is not present, no Areas are applicable.

INITIAL OR PERIODIC CLEANING RECORD

I, the last person to sign the following list, have made or overseen the initial or periodic cleaning of this City of Milwaukee facility. The rooms (Areas) cleaned were per the Area Ids as listed on the following report. If any condition existed which requires the attention of certified personnel, i.e.. ACM debris, the area, condition and Repair Requisition No. have been listed below.

NAME	DATE	RR #'s / COMMENTS		
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				
Sign _____ Print				

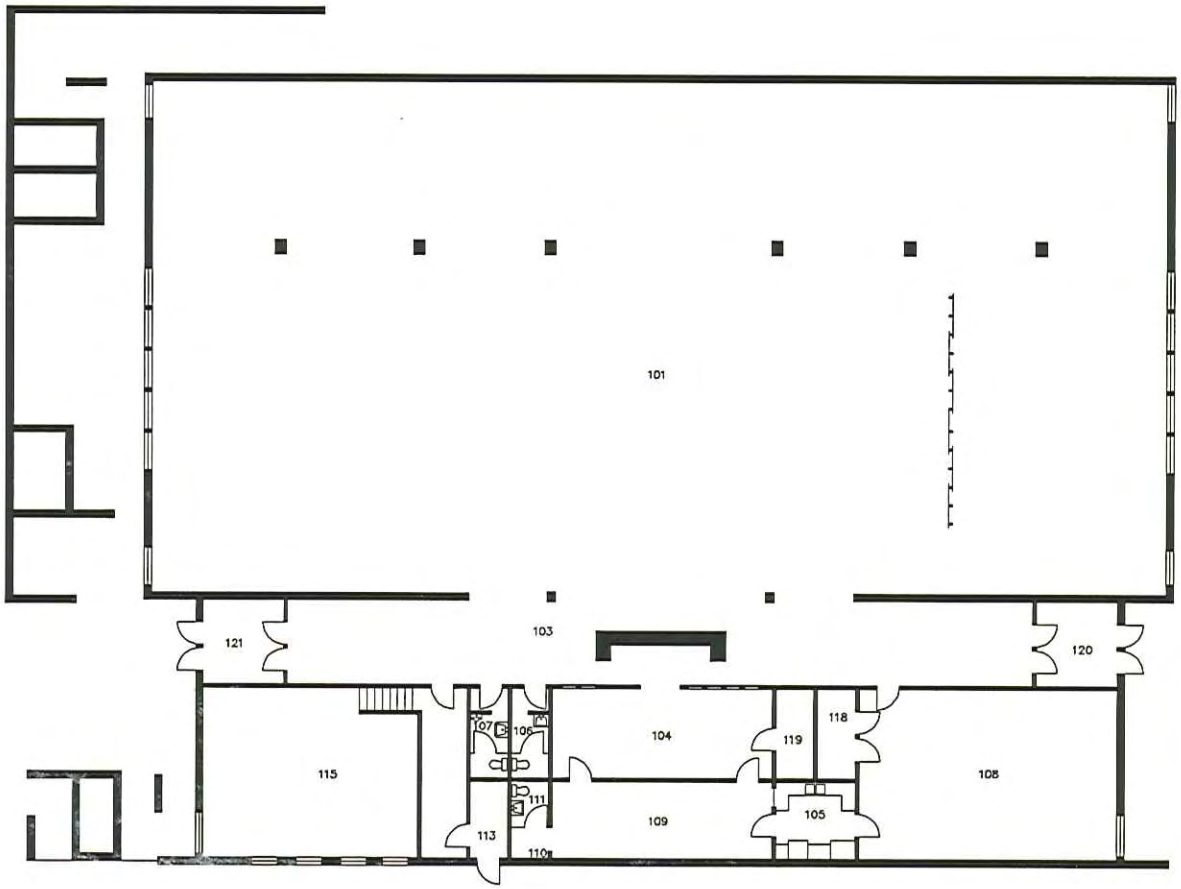
INITIAL & PERIODIC CLEANING REPORT
for AREAS with FRIABLE ACBM

Building Number & Name	Area ID	H-Zone Code, ACBM Disposition & H-Zone (Bldg. Material) Description			Friable (Yes/No)	Notes/ Comments
1069 EAST LIBRARY	115	T-DC1	(PROVEN)	DUCT CONNECTORS [Flexible Vibration Isolators], woven	Y	
		T-PFIFS	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller	Y	4 EA. @ PIPE & DUCTWORK JUNCTION
	Count 2					
	B1	T-PFIFS	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller	Y	CRAWL SPACE, ACCESS THROUGH PANEL IN AREA 115

Count 3

CLEANING
(Sorted By Area ID)

Page 1



EAST LIBRARY – FIRST FLOOR PLAN

0 5 10 15 20 25 50

NORTH

City of Milwaukee

EAST LIBRARY (860–1069)
FIRST FLOOR PLAN

MAY 1990

City of Milwaukee

Department of Public Works

Bureau of Bridges and Public Buildings

ASBESTOS MANAGEMENT PLAN REPORT

DEPARTMENT 860
LIBRARY BOARD - ADMINISTRATION SERVICES

BUILDING 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

July, 1990

GENERAL INTRODUCTION

On Friday, October 30, 1987, the United States Environmental Protection Agency (EPA) issued a final rule under section 203 of Title II of the Toxic Substances Control Act (TSCA), 15 U.S.C. 2643 that requires the nation's School Districts to identify asbestos containing materials (ACM) in their school buildings and that they use specially trained and certified persons to conduct the inspections. The law that enabled the EPA to issue these rules is called the "Asbestos Hazard Emergency Response Act" (AHERA). These rules and regulations are contained in 40 CFR Part 763, "Asbestos Containing Materials in Schools Rule", dated October 30, 1987.

In anticipation of issuance of a further rule by the EPA requiring the inspection and management of ACM in all governmental and public buildings, the City of Milwaukee has undertaken this task and has done so according to the rules and regulations of AHERA.

The terms "AHERA" and "40 CFR Part 763" will be used interchangeably throughout this report to describe the regulations under which the City of Milwaukee proposes to operate.

This report represents the results of the prescribed inspection for the building as specified hereinafter.

The following page is a summary of the existence of ACBM for the specified building.

July 17, 1990

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MILWAUKEE, WISCONSIN 53202

ACBM DECLARATION

This Building contains Asbestos Containing Building Materials (ACBM) in the following forms:

- [ ] Friable Proven Surfacing ACBM
- [√] Friable Proven Thermal Systems ACBM
- [√] Non-Friable Proven ACBM
- [ ] Friable Assumed ACBM
- [ ] Friable Assumed Thermal Systems ACBM
- [√] Non-Friable Assumed ACBM
- [ ] No Suspected ACBM

ACCEPTANCE STATEMENT

Please refer to
SECTION 1 - GENERAL ASBESTOS MANAGEMENT
(Departmental Statement Of Policy)
for Management Plan ACCEPTANCE STATEMENT.

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ASBESTOS MANAGEMENT PLAN REPORT

S E C T I O N 1

GENERAL ASBESTOS MANAGEMENT
(Departmental Statement Of Policy)

ASBESTOS MANAGEMENT PLAN REPORT

S E C T I O N 2

SPECIFIC BUILDING ASBESTOS MANAGEMENT

SECTION 2 INTRODUCTION

This section of the report is the specific building portion of the Management Plan. It contains information relative to this building only. (Policies, procedures, and other information that apply to all of the buildings and facilities within a City of Milwaukee Bureau or Department are contained in report Section 1 - General Asbestos Management [Departmental Statement Of Policy].)

This section of the document must be constantly updated in order to remain current and effective. In order to ensure that only current information is available, copies will be maintained for review at the following location only:

Bureau of Bridges and Public Buildings
Municipal Building, Room 311
841 North Broadway
Milwaukee, Wisconsin 53202

Copies may be viewed by appointment only. To make an appointment, call (414) 278-3403.

For the convenience of the reader, as stated above, General Asbestos Management is covered in Section 1.

Reports containing inspection data, bulk sample analysis results, and response options for asbestos-containing building materials can be found in the following subsections.

Each subsection is prefaced with a description of the various reports associated with it.

SPECIAL INSTRUCTIONS **EAST LIBRARY**

This section is provided for the management planners to add any specific comments about the building.

CERTIFICATION & SURVEILLANCE STATEMENTS

On the following pages can be found the certification statements (attestations) for Section 2 of this Asbestos Management Plan Report, which cover the Inspection for, Assessment of, and Bulk Sampling of any suspected ACBM in the building, and the Response Options prepared for any proven or assumed ACBM.

The re-inspection certification and surveillance inspection statement/form are provided for later use.

July 17, 1990

ASBESTOS INSPECTION CERTIFICATION STATEMENT
for
City of Milwaukee
Bldg. No. 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

I (We), the undersigned, do hereby certify that the building listed above was inspected for ACBM by me (us), or under my (our) direct supervision; that any Bulk Samples of suspected ACBM were collected by me (us); and that assessments based on the ACBM's condition were made by me (us)..

All inspection, sampling, or assessments were conducted pursuant to the USEPA's "Asbestos-Containing Materials In Schools" rule as ammended in AHERA (40 CFR Part 763), dated October 30, 1987.

Attempts to inspect behind surfaces were limited to moveable surfaces such as ceiling tile, electrical switch/receptacle cover plates, or access panels. Non-destructive sampling techiques (to maintain the material's integrity) were generally employed.

The information contained in this report is, to the best of my (our) knowledge, accurate.

INSPECTOR(S):

EMPLOYED BY: MILWAUKEE PUBLIC SCHOOLS
FACILITIES & MAINTENANCE SERV.
1124 NORTH 11TH STREET
MILWAUKEE, WISCONSIN 53233

ELLIS F. RAHN

Ellis F. Rahn, 2-3-92
Signature Date

Date Bldg. Inspection Completed:
04/09/90

State of Accreditation & Number:
WI I-045

July 17, 1990

MANAGEMENT PLANNERS CERTIFICATION STATEMENT
for
City of Milwaukee
Bldg. No. 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

We, the undersigned, acting as a management planning team, do hereby certify that the response actions for the City of Milwaukee building listed above, were developed and recommended by us.

The response actions were developed in accordance with the requirements of the United States Environmental Protection Agency's "Asbestos Materials In Schools" rule as ammended in the "Asbestos Hazard Emergency Response Act (AHERA)/40 CFR Part 763, dated October 30, 1987.

The responses contained in this report represent, to the best of our knowledge, the best possible courses of action, and are based on the actual inspection, sampling, and assessment information received, and, in some cases, field checks performed by one or all of us.

MANAGEMENT PLANNERS: EMPLOYED BY: MILWAUKEE PUBLIC SCHOOLS
FACILITIES & MAINTENANCE SERV.
1124 NORTH 11TH STREET
MILWAUKEE, WISCONSIN 53233

THOMAS J. CHOJNACKI
Thomas J. Chojnacki, 2/4/92
Signature Date
Date Bldg. Inspection Completed: 04/09/90
State of Accreditation & Number: WI MP-438

JOSEPH CHROSTOWSKI
Joseph Chrostowski, 2/3/92
Signature Date
Date Bldg. Inspection Completed: 04/09/90
State of Accreditation & Number: WI MP-473

PATRICK M. O'DONNELL
Patrick M. O'Donnell, 2/4/92
Signature Date
Date Bldg. Inspection Completed: 04/09/90
State of Accreditation & Number: WI MP-437

July 17, 1990

RE-INSPECTION CERTIFICATION STATEMENT
for
City of Milwaukee
Bldg. No. 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

I hereby certify that the City of Milwaukee building listed above was reinspected for Asbestos Containing Building Materials (ACBM) by me or under my direct supervision. The building was inspected in accordance with the requirements of the U.S. Environmental Protection Agency's "Asbesto-Containing Materials in Schools" rule as ammended in AHERA/40 CFR Part 763 dated, October 30, 1987.

_____
(Print Name)

_____
(Signature)

_____ _____ _____
(Date) (Accreditation No.) (St.)

Any additions, deletions, or other revisions to this management plan as a result of this reinspection are inserted in this book and are printed on _____ (color) paper for easy recognition.

I hereby certify that the City of Milwaukee building listed above was reinspected for Asbestos Containing Building Materials (ACBM) by me or under my direct supervision. The building was inspected in accordance with the requirements of the U.S. Environmental Protection Agency's "Asbesto-Containing Materials in Schools" rule as ammended in AHERA/40 CFR Part 763 dated, October 30, 1987.

_____
(Print Name)

_____
(Signature)

_____ _____ _____
(Date) (Accreditation No.) (St.)

Any additions, deletions, or other revisions to this management plan as a result of this reinspection are inserted in this book and are printed on _____ (color) paper for easy recognition.

SURVEILLENCE INSPECTION STATEMENT
for
City of Milwaukee
Bldg. No. 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

I, the last person to sign this list, have made a surveillence inspection of the City of Milwaukee building listed above. I visually inspected all materials in all areas that are identified in this report as ACBM. I have also noted any changes in the conditions of the ACBM on the repair requisitions listed below. These requisitions have been forwarded to the appropriate authorities.

NAME	DATE	REPAIR REQUISITION NUMBERS		
Sign _____				
Print				
Sign _____				
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Sign _____				
Print				
Sign _____				
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Sign _____				
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Sign _____				
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Sign _____				
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Sign _____				
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GENERAL BUILDING INFORMATION

The Building Construction Report on the following page describes general aspects of the building's construction which are essential in determining Building Zones (based on actual year of construction of, or renovations and/or additions to a building) and the specific Homogeneous Zones (building materials) within a given Building Zone.

Note:
Data for both "Building Type/Function" and "Construction Classification" was obtained from the City of Milwaukee's "Building Property Insurance Input Forms".

BUILDING CONSTRUCTION REPORT

for

Bldg. No. 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

Dept. No. 860
LIBRARY BOARD - ADMINISTRATION SERVICES

Year Constructed, Building Function/Type, Construction Classification, & Total Area/Square Footage	Building Modifications History Year and Type
1968 LIBRARY STEEL FRAME WITH BRICK OR BLOCK EXTERIOR WALLS 14,691	

REPORT 6
BLDGINFO

Page 1

BUILDING HOMOGENEOUS ZONES

The following report lists all building materials suspected of containing asbestos, sorted alpha-numerically by their respective H-Zone Codes, and any special notations regarding same.

Homogeneous Zone Photographs can be found in Appendix B.

Definition:
A **"Homogeneous Zone"** (H-Zone) is a term applied to a specific building material which is suspected as being an ACBM. AHERA uses the term "Homogeneous Area" and defines it as an area (material) which is similar throughout in terms of color, texture, and date of material application, installation, or construction.

H-Zone Codes:
Each Homogeneous Zone has been assigned a unique code. These codes are comprised of three basic elements as follow:

1. "M", "S", or "T" prefixes are first applied to group the material into one of three basic categories as defined by AHERA.

   MISCELLANEOUS MATERIAL (M)
   Interior building material on structural members of fixtures, such as floor and ceiling tiles.

   SURFACING MATERIAL (S)
   Material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

   THERMAL SYSTEMS INSULATION (T)
   Material applied to pipes, fittings, boilers, breaching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes. (Some miscellaneous materials are grouped in this category, i.e., flexible fabric duct connectors, because of their relation to plumbing, mechanical, and electrical building systems.)

2. When the building was constructed or remodeled in phases or different years Building Zone designations ("Z1", "Z2", etc.) are assigned after the prefix . These "Z" numbers are further explained in the Homogeneous Zones definitions Report notes.

3. Abbreviations or acronyms then follow a hyphen and complete the code. This element is generally consistent from building to building such as "CT" for ceiling tile and "FT" for floor tile. If more than one type of a ceiling tile, etc. is inventoried, the H-Zones are further distinguished by numerals (I.e., "CT1", "CT2", etc.)

ACBM Disposition:
The ACBM Disposition indicates whether the H-Zone has

been sampled and was subsequently analyzed positive (PROVEN), or the H-Zone has been sampled and was subsequently analyzed negative (NON-ACBM), or the H-Zone was not sampled and must be assumed to contain asbestos (ASSUMED).

Materials not suspected of containing asbestos (see below) are exempt from inspection. With the exception of inlaid carpeting and carpet tiles these were not inventoried. These two materials appear in the report as having an ACBM Disposition of "(NON-SUSPECT)".

Descriptions:
The H-Zones descriptions are formulated for readability, and generally read as follows:

"GENERIC MATERIAL NAME [Trade Name or Material Composition if applicable], specifics, i.e., material sizes, colors, etc.".

Non-Suspect Materials or
Materials Otherwise Exempted from Inspection:
Following is a listing of materials which were not inventoried and do not appear in this report. **Bolded Items** may contain asbestos but are not considered building materials.

Concrete (Includes Poured Concrete, Concrete Block, and Pre-Cast Concrete Structural Members)
Cinder Block
Blackboards (Includes All Chalkboards & Bulletin Board)
Pressed Wood (Includes All Wood Products)
Wall or Ceiling Carpet (Floor carpeting itself is a non-suspect material but could contain asbestos fibers from an adjacent ACBM in friable condition.)
Exterior Roofing Shingles
Auditorium Curtains
Chemical Lab Table and Desk Tops
Stored Suspected ACBM
Fire Blankets
Glass
Steel (Includes All Metal Products)
Brake Shoes
Kiln Bricks & Cement
Bunsen Burner Pads
Chemical Lab Gloves
Fiberglass Products
Foam Glass Products
Rubber Products

Suspected ACBM Not Generally Inventoried:
All **Mastics**, **Caulking**, and similar construction adhesives (i.e., **Drywall Joint Compound**) or sealants.
Interior **Boiler** and **Incinerator Insulation** or Components such as Gaskets, Firebrick, Cast Refractory Material or Wearing Surfaces, etc.
Electrical Systems Insulating Material for Fixtures, Wiring, Panels Boards, Switchgear, etc.

HOMOGENEOUS ZONES DEFINITIONS REPORT
for
City of Milwaukee
Bldg. No. 1069
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

H-Zone Code	ACBM Disposition	Homogeneous Zone/ Building Material Description
Note #1:		A Homogeneous Zone is a building material which is similar in terms of color, texture, and date of construction, installation, or application.
Note #2:		H-Zone Codes prefixed w/'M' indicate MISCELLANEOUS materials.
Note #3:		H-Zone Codes prefixed w/'S' indicate SURFACING materials.
Note #4:		H-Zone Codes prefixed w/'T' indicate THERMAL SYSTEM INSULATION materials or materials associated with plumbing, mechanical (HVAC), and electrical systems.
Note #5:		H-Zone Code alpha-numerical characters following the hyphen are generally acronyms of the building material specified in the Homogeneous Zone/Building Material Description.
M-B	(NON-ACBM)	BRICK & MORTAR
M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR
M-CPT	(NON-SUSPECT)	CARPETING, inlaid
M-CR	(NON-ACBM)	CERAMIC TILE, oatmeal color & GROUT
M-CT	(NON-ACBM)	CEILING TILE, 12in.x 12in. textured
M-DW	(NON-ACBM)	DRYWALL/GYPSUM BOARD
M-FD	(ASSUMED)	FIRE DOORS, wood
M-FTL	(PROVEN)	FLOOR TILE, 12in.x 12in. cream textured
M-MT	(NON-ACBM)	MOSAIC TILE, 1in.x 1in. brown w/speckles & GROUT
M-QT	(NON-ACBM)	QUARRY TILE & GROUT
M-VB	(NON-ACBM)	VINYL BASE
S-P	(NON-ACBM)	TROWELED-ON PLASTER

H-Zone Code	ACBM Disposition	Homogeneous Zone/ Building Material Description
T-BI	(ASSUMED)	BREECHING INSULATION [Van Packer], on furnace & incinerator
T-DC1	(PROVEN)	DUCT CONNECTORS [Flexible Vibration Isolators], woven
T-DC2	(NON-ACBM)	DUCT CONNECTORS [Flexible Vibration Isolators], fabric
T-DIM	(PROVEN)	DUCT INSULATION MASTIC
T-PFIFL	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines larger than 6in.
T-PFIFS	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller

INSPECTION RESULTS/RESPONSE OPTIONS

This subsection contains building floor plans and reports detailing inspection results and appropriate response options for managing ACBM.

Area ID Location Floor Plans:
The floor plans are basically schematic, indicating locations of walls, door openings, etc. Some architectural details such as windows, relative wall thicknesses, plumbing fixtures, etc. may also be included.

Their basic function is to establish each "Area" (Room) of the building and indicate the "Area ID" (Room Number).

The term **"AREA"** equates to AHERA's term, **"FUNCTIONAL SPACE"**, and is defined as a room, or group of rooms (including crawl spaces or the space between a dropped ceiling and the floor or roof deck above), such as classroom(s), a cafeteria, gymnasium, hallway(s), designated by a person accredited to prepare management plans, design abatement projects, or conduct response actions.

An **"AREA ID"** is used to uniquely identify each area within the building. In some instances the Area ID may not match the actual Room Number, Name, or accepted designation.

Note: The reports contained in this sub-section should always be read in conjunction with the Area ID Location Floor Plans.

All-Area
(All Inventoried Areas & Homogeneous Zones Report):

A summary of all suspected ACBM with related disposition (Proven, Assumed, Non-ACBM, or Non-Suspect) and inspector's comments, listed by the Areas in which they can be found.

Pos-Hzon
(ACBM [All Positive H-Zones] / Response Option Summary:

A summary of only proven or assumed ACBM with related disposition (Proven or Assumed), and the Areas in which they are found, listed (sorted) by the H-Zone Code of the ACBM. Friability, existence of damage, **AHERA category numbers (friable ACBM assessments** [see * below], potential for future damage factors (accessibility, air erosion, and vibration), existence of suspected ACBM debris, **response options** (see ** below), inspector's comments and quantities of materials are also listed.

Note: **If the report (Pos-Hzon) is not present, no suspected ACBM were proven after analysis, or no suspected ACBM were determined upon initial inspection.**

*** AHERA Category/Friable ACBM Assessments:**

AHERA requires inspectors to assess the condition of all friable ACBM. For the purposes of this report, damaged thermal insulation will be considered friable. This assessment categorizes the material in question into seven classifications. Those seven are:

1. **Damaged or significantly damaged thermal system insulation ACM.**
   This category is selected for thermal system insulation ACM on pipes, boilers, tanks, ducts and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, waterstained, gouged, punchcared, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges, or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicate damage.

2. **Damaged friable surfacing ACM.**
   This category is selected for friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

3. **Significantly damaged friable surfacing ACM.**
   This category is selected for damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

4. **Damaged or significantly damaged friable miscellaneous ACM.**
   This category is selected for friable miscellaneous asbestos containing material which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable , which has determined such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

5. **ACBM with potential for damage.**
   This category is selected for ACBM with potential for damage which has the following circumstances:
   1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities.
   2) There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and

maintenance practices, changes in occupancy, or recurrent damage.

6. ACBM with potential for significant damage.

This category is selected for ACBM with potential for significant damage which has the following circumstances:

1) Friable ACBM is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities.
2) There are indications that there is a reasonable likelihood that the material or its covering will become significantly damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.
3) Material is subject to major or continuing disturbance due to factors including, but not limited to, accessibility or, under certain circumstances, vibration or air erosion.

7. Any remaining friable ACBM or friable suspected ACBM.

This category is selected for any remaining friable ACBM or friable suspected ACBM that was not covered by the above.

**** Response Options (Response Actions):**

A response action is a method , including removal, encapsulation, enclosure, repair, and operations and maintenance (O&M), that protects human health and the environment from friable ACBM.

The Pos-Hzon/Response Option Summary Report usually lists "Standard Response Options" ("O&M" or a "concatenated code" as deciphered below [see *** below]).

The materials that would hypothetically remain in this building after nonstandard recommended response actions are completed are those that show O&M as a response action. Current conditions are maintained via the O&M program until either accomplishment or subsequent review of resource availability changes.

Some of the response options involve minor repair, i.e. re-canvas the pipe insulation on an elbow. Those items have been reviewed on a room by room basis. An **"O&M Repair Work Order Report"** has been specifically prepared to address those situations as soon as possible. It addresses specific situations that require action other than simple inspection. The report , if applicable, has been issued (under separate cover) to the appropriate authorities for implementation.

Occasionally a response option may involve activities beyond what is normally included in the O&M program. Those instances are addressed separately by writing up a Scope of Work (SCOPE). A SCOPE may involve one or more ACBM (Proven or Assumed H-Zones) in one or more areas within a building (See **"Scope Report"** below).

***** Standard Response Options:**

The following notations are utilized in the management plan to indicate a given response option. A complete

option is the concatenation of all listed option codes.

For example, a response code of F1R would mean that the appropriate response would be to do what is specified for a friable damaged or significantly damaged thermal system insulation within reach.

CODE **OPTION DESCRIPTION**

F **FRIABLE**
(When dry, may be crumbled, pulverized, or reduced to powder by hand pressure)
Repair, encapsulate or enclose to reduce potential for fiber release and protect human health and environment.

1 **AHERA CATEGORY 1**
a. At least immediately repair the damaged area.
b. Remove the damaged material if it is not feasible, due to technological factors, to repair the damage.
c. Maintain all thermal system ACM and it's covering in an intact state and undamaged condition.

5 **AHERA CATEGORY 5**
At least implement an operations and maintenance (O&M) program, as described under AHERA 763.91.

6 **AHERA CATEGORY 6**
a. Implement an O&M program, as described under AHERA 763.91.
b. Institute preventive measures appropriate to eliminate the reasonable likelihood that ACM or it's covering will become significantly damaged, or delaminated.
c. Remove the material as soon as possible if appropriate preventive measures cannot be effectively implemented, or unless other response actions are determined to protect human health and the environment. Immediately isolate the area and restrict access if necessary and substantial endangerment to human health or the environment.

R **REACHABLE (Accessible)**
(Generally below 7 feet above the finished floor)
Monitor ACBM within reach for a greater potential for disturbance as opposed to material beyond reach.

D **DEBRIS**
(Pieces of ACBM including dust, that can be identified by color, texture or composition by accredited inspectors to be ACM)
Remove debris using appropriate cleaning methods and investigate it's origin. Institute preventive measures appropriate to eliminate a reoccurrence.

V **VIBRATION**
(ACBM has been damaged or is subject to damage due to the influence of vibration caused by machinery, etc. or other source)
Monitor ACBM subject to the influence of vibration

for a greater potential for disturbance as opposed to material not subjected to vibration. Institute possible preventive measures of reoccurrence.

H **WITHIN AN HVAC SYSTEM**
(The material is physically located within, passes through, or is in close proximity to air movement created by a building ventilation system)
Consider for removal as resources become available.

SCOPE Report (Scoped Response Option Form):

As stated above, a response options involving activities beyond "O&M" program are addressed separately by Scope of Work (SCOPE). A SCOPE may involve one or more ACBM (Proven or Assumed H-Zones) in one or more areas within a building.

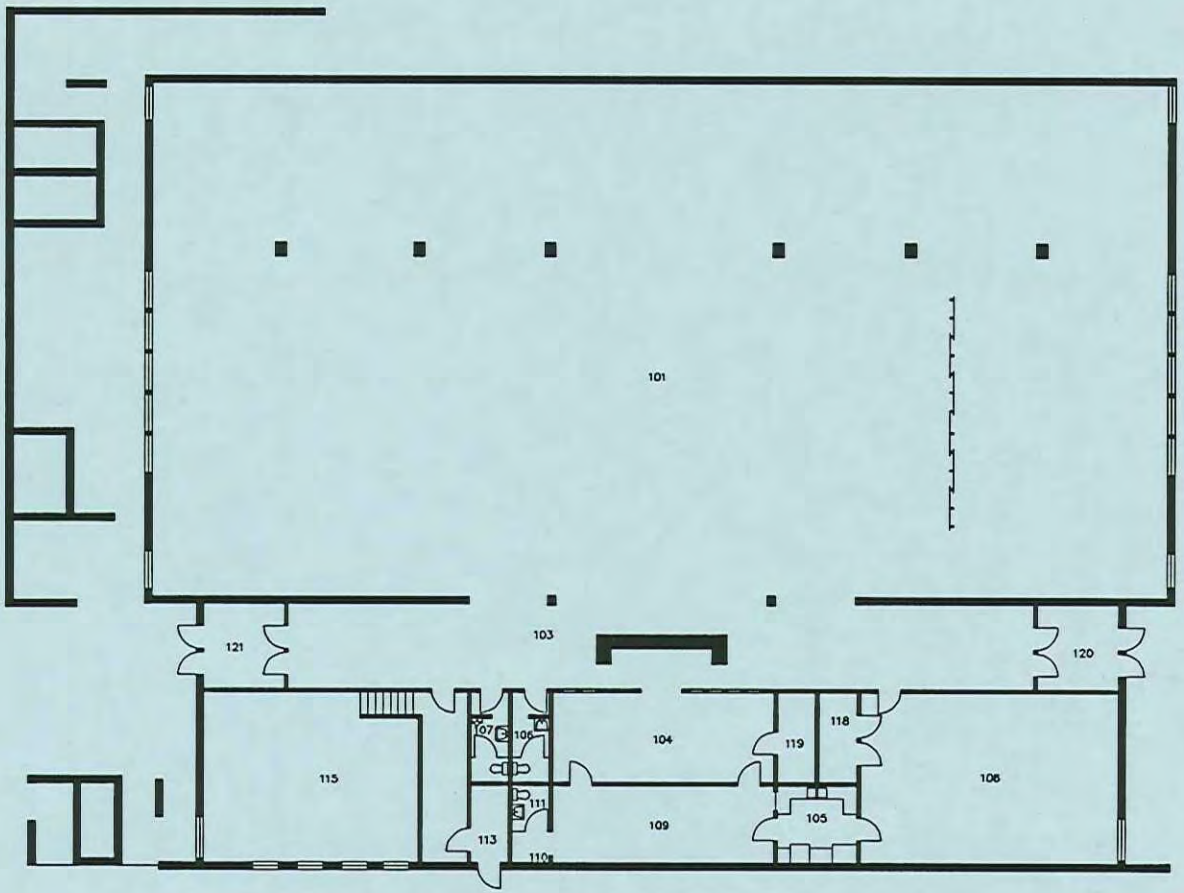
The first step in completing the SCOPE is to review the hazard potential of ACBM's that are the most difficult to O&M throughout the City. An algorithm detailing material specifics is filled out to rate the worst condition to the best condition. A team of certified management planners, and City administrators review the algorithms to determine those conditions that require heightened response option development.

The worst conditions other than emergencies, are divided into response options detailing other work involved and cost estimates. The response options are reviewed for budget approval and implementation as resources are made available.

These scopes of work are not full fledge abatement project designs. They simply describe one or more options of work that may be done to correct a particular situation. A copy of the Management Planner's Worksheet is generally included with the Scope Report.

Note: If this report is not present, no ACBM required a response option beyond O&M or repairs.

Emergency Response Actions:
Emergencies are handled on a case by case basis.
If during inspection, the accredited inspector observes an especially hazardous or potientally hazardous situation, the details (areas affected, specific material, and nature of hazard) are written up on a special "hot sheet" memo form and are submitted to the appropriate authorities for immediate action. These situations are still reflected in the appropriate subsections of the management paln as original inspection conditions.



EAST LIBRARY – FIRST FLOOR PLAN

0 5 10 15 20 25 50

NORTH

City of Milwaukee

EAST LIBRARY (860-1069)
FIRST FLOOR PLAN

MAY 1990

ALL INVENTORIED AREAS & HOMOGENEOUS ZONES REPORT
(Sorted By Area ID)

Bldg. No.	Building Name	Area ID	H-Zone Code & ACBM Disposition		Homogeneous Zone/ Building Material Description	Notes/ Comments
1069	EAST LIBRARY	101	M-CPT	(NON-SUSPECT)	CARPETING, inlaid	OVER FLOOR TILE
			M-CT	(NON-ACBM)	CEILING TILE, 12in.x 12in. textured	
			M-FTL	(PROVEN)	FLOOR TILE, 12in.x 12in. cream textured	
			M-VB	(NON-ACBM)	VINYL BASE	
		Count 4				
		103	M-B	(NON-ACBM)	BRICK & MORTAR	
			M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	ABOVE CEILING
			M-CT	(NON-ACBM)	CEILING TILE, 12in.x 12in. textured	
			M-DW	(NON-ACBM)	DRYWALL/GYPSUM BOARD	ABOVE CEILING
			M-QT	(NON-ACBM)	QUARRY TILE & GROUT	
			T-DIM	(PROVEN)	DUCT INSULATION MASTIC	ABOVE CEILING
			T-PFIFL	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines larger than 6in.	ABOVE CEILING, IN PLENUM
		Count 7				
		104	M-CT	(NON-ACBM)	CEILING TILE, 12in.x 12in. textured	
			M-FTL	(PROVEN)	FLOOR TILE, 12in.x 12in. cream textured	
			M-VB	(NON-ACBM)	VINYL BASE	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 4				
		105	M-FTL	(PROVEN)	FLOOR TILE, 12in.x 12in. cream textured	
			M-VB	(NON-ACBM)	VINYL BASE	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 3				

ALL INVENTORIED AREAS & HOMOGENEOUS ZONES REPORT
(Sorted By Area ID)

Bldg. No.	Building Name	Area ID	H-Zone Code & ACBM Disposition		Homogeneous Zone/ Building Material Description	Notes/ Comments
1069	EAST LIBRARY	106	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	ABOVE CEILING
			M-CR	(NON-ACBM)	CERAMIC TILE, oatmeal color & GROUT	
			M-QT	(NON-ACBM)	QUARRY TILE & GROUT	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 4				
		107	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	ABOVE CEILING
			M-CR	(NON-ACBM)	CERAMIC TILE, oatmeal color & GROUT	
			M-MT	(NON-ACBM)	MOSAIC TILE, 1in.x 1in. brown w/speckles & GROUT	
			M-QT	(NON-ACBM)	QUARRY TILE & GROUT	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 5				
		108	M-B	(NON-ACBM)	BRICK & MORTAR	
			M-CPT	(NON-SUSPECT)	CARPETING, inlaid	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 3				
		109	M-CT	(NON-ACBM)	CEILING TILE, 12in.x 12in. textured	
			M-FTL	(PROVEN)	FLOOR TILE, 12in.x 12in. cream textured	
			M-QT	(NON-ACBM)	QUARRY TILE & GROUT	
			M-VB	(NON-ACBM)	VINYL BASE	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 5				
		110	M-QT	(NON-ACBM)	QUARRY TILE & GROUT	

ALL INVENTORIED AREAS & HOMOGENEOUS ZONES REPORT
(Sorted By Area ID)

Bldg. No.	Building Name	Area ID	H-Zone Code & ACBM Disposition		Homogeneous Zone/ Building Material Description	Notes/ Comments
1069	EAST LIBRARY	110	S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 2				
		111	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	ABOVE CEILING
			M-QT	(NON-ACBM)	QUARRY TILE & GROUT	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 3				
		113	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	
			M-DW	(NON-ACBM)	DRYWALL/GYPSUM BOARD	
		Count 2				
		115	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	
			M-FD	(ASSUMED)	FIRE DOORS, wood	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
			T-BI	(ASSUMED)	BREECHING INSULATION [Van Packer], on furnace & incinerator	
			T-DC1	(PROVEN)	DUCT CONNECTORS [Flexible Vibration Isolators], woven	
			T-DC2	(NON-ACBM)	DUCT CONNECTORS [Flexible Vibration Isolators], fabric	
			T-PFIFS	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller	4 EA. @ PIPE & DUCTWORK JUNCTION
		Count 7				
		118	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	
			M-FTL	(PROVEN)	FLOOR TILE, 12in.x 12in. cream textured	
			M-VB	(NON-ACBM)	VINYL BASE	

ALL INVENTORIED AREAS & HOMOGENEOUS ZONES REPORT
(Sorted By Area ID)

Bldg. No.	Building Name	Area ID	H-Zone Code & ACBM Disposition		Homogeneous Zone/ Building Material Description	Notes/ Comments
1069	EAST LIBRARY	118	S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 4				
		119	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	
			M-FTL	(PROVEN)	FLOOR TILE, 12in.x 12in. cream textured	
			M-VB	(NON-ACBM)	VINYL BASE	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 4				
		120	M-B	(NON-ACBM)	BRICK & MORTAR	
			M-QT	(NON-ACBM)	QUARRY TILE & GROUT	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 3				
		121	M-B	(NON-ACBM)	BRICK & MORTAR	
			M-QT	(NON-ACBM)	QUARRY TILE & GROUT	
			S-P	(NON-ACBM)	TROWELED-ON PLASTER	
		Count 3				
		B1	M-CBM	(NON-ACBM)	CONCRETE BLOCK MORTAR	
			T-PFIFS	(PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller	CRAWL SPACE, ACCESS THROUGH PANEL IN AREA 115
		Count 2				

Count 65

REPORT10
ALL-AREA

Page 4

RESPONSE OPTION SUMMARY-ALL POSITIVE H-ZONES (ACBM) & AREAS
(Sorted By H-Zone Codes)

Bldg. No.	Building Name	H-Zone Code & ACBM Disposition	Homogeneous Zone/ Bldg. Material Description	Area ID	Fri	Dam	1-7	Rch	Deb	Vib	Air	Response, Notes/Comments	Quantity
1069	EAST LIBRARY	M-FD (ASSUMED)	FIRE DOORS, wood	115	N	N						O&M	
		M-FTL (PROVEN)	FLOOR TILE, 12in.x 12in. cream textured	101	N	N						O&M	
				104	N	N						O&M	
				105	N	N						O&M	
				109	N	N						O&M	
				118	N	N						O&M	
				119	N	N						O&M	
		Count 6											
		T-BI (ASSUMED)	BREECHING INSULATION [Van Packer], on furnace & incinerator	115	N	N	5	N	N	N	N	5	
		T-DC1 (PROVEN)	DUCT CONNECTORS [Flexible Vibration Isolators], woven	115	Y	Y	1	Y	N	Y	Y	F1RVH	1 EA
		T-DIM (PROVEN)	DUCT INSULATION MASTIC	103	N	N	5	N	N	N	N	5 ABOVE CEILING	
		T-PFIFL (PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines larger than 6in.	103	N	N	5	N	N	Y	Y	5VH ABOVE CEILING,	7 EA

REPORT11
POS-HZON

RESPONSE OPTION SUMMARY-ALL POSITIVE H-ZONES (ACBM) & AREAS
(Sorted By H-Zone Codes)

Bldg. No.	Building Name	H-Zone Code & ACBM Disposition	Homogeneous Zone/ Bldg. Material Description	Area ID	Fri	Dam	1-7	Rch	Deb	Vib	Air	Response, Notes/Comments	Quantity
												IN PLENUM	
1069	EAST LIBRARY	T-PFIFS (PROVEN)	PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller	115	Y	Y	1	Y	N	Y	N	F1RV	
												4 EA. @ PIPE & DUCTWORK JUNCTION	75 EA
				B1	Y	Y	1	Y	N	N	N	F1R CRAWL SPACE, ACCESS THROUGH PANEL IN AREA 115	86 EA
		Count 2											

Count 13

REPORT11
POS-HZON

BULK SAMPLING INFORMATION

METHODOLOGY

Bulk sampling was conducted in accordance with AHERA, 40 CFR, part 763.86. General locations of samples were determined for each Homogeneous Zone on a random basis. Each functional space was assigned an Area ID number. Homogeneous Zones Codes were then assigned to each suspect material and listed with the Area ID's that contained that material. The actual field methods utilized to randomly select the Area ID's from which samples would be taken ranged from rolling a single dice to cutting cards. Samples were generally taken from inconspicuous locations.

AHERA does not precisely spell out the amount of samples that are required to be collected for non-friables, thermal fittings and miscellaneous ACBM. The regulations refer to the phrase "in a manner sufficient" when describing the required number of samples. Following is a chart which specifies basic bulk sampling guidelines.

Type of Material	AHERA Minimum
1. SURFACING	
a. Friable < 1000 SF	3
b. Friable > 1000, & < 5000 SF	5
c. Friable > 5000 SF	7
d. Non-friable < 1000 SF	Manner Sufficient
e. Non-Friable >1000, <5000	Manner Sufficient
f. Non-Friable > 5000 SF	Manner Sufficient
2. THERMAL SYSTEM INSULATION	3
a. Patched area < 6 SF or LF	add 1
b. Fittings (cement plaster)	Manner Sufficient
3. MISCELLANEOUS MATERIAL	
a. Friable	Manner Sufficient
b. Non-Friable	Manner Sufficient
c. Patched area < 6 SF or LF	Manner Sufficient

Determining ACBM Disposition:

PROVEN - If one or more samples of any of the samples collected for a specific Homogeneous Zone was analyzed positive (greater than 1% asbestos fibers by weight using PLM microscopy), that Homogeneous Zone, in all areas it is present, is considered to be proven ACBM.

NON-ACBM - If all samples of the samples collected for a specific Homogeneous Zone were analyzed negative, that Homogenous Zone, in all areas it is present, is considered to be proven non-ACBM.

Although most miscellaneous materials may be broken down and listed as separate Homogeneous Zones based on color schemes and sizes, some non-friable types such as ceramic, mosaic, and quarry tile, terrazzo, and marble, may have been considered as one Homogeneous Zone for purposes of sampling.

For instance, the Homogeneous Zones Definitions Report may list six different Ceramic Tile H-Zones (i.e., MZ1-CR1, MZ1-CR2, etc.) based on different colors. A representative number of samples may have been taken of only three of these different colors. If they all were analyzed as non-asbestos containing a determination was made to consider the disposition of all six colors as Non-ACBM.

Appropriately, the H-Zone Codes that in appear on the Bulk Sample Summary Reports would be generic in nature, i.e., MZ1-CR with the specific code listed in parentheses.

Bulk Sample Summary Reports:

The reports that follow both list Sample Numbers, Area ID where the sample was collected, Date Collected, and Laboratory Results. Actual laboratory reports can be found in Appendix A.

The first report (HZONSAMP), has the data ordered by the H-Zone Code and also lists the Homogeneous Zone Descriptions.

The second report (ALFASAMP), has the data ordered by the Sample Number and also lists the Exact Sample Point Locations. These locations are a three-dimensional description listed in decimal feet. They are read as follows; a location of "2.00'N, 0.00'E, 0.50'AFF" means the sample point was taken on the east wall, two feet from ("from" always being implied) the north wall and six inches above the floor. The abbreviation "AFF" is an accepted construction term meaning "Above Finished Floor". A dimension of "0.00'" always means "on" the wall or floor.

Bulk Sample Point Location Plans:

The plans (IF PRESENT) following the reports explained above are the same as the Area ID Location Plans which appear in an earlier subsection, but also have the bulk sample numbers and points indicated with dimensions. (Dimensions on the plans are listed in feet and inches as opposed to decimal feet on the Bulk Sample Summary Report. If these plans are not present, refer to "ALFASAMP" report for sample point locations.)

Note: If both the Bulk Sample Summary Reports and Location Plans are not present, no samples were collected.

BULK SAMPLE SUMMARY REPORT w/ HOMOGENEOUS ZONE DESCRIPTIONS
(Sorted By H-Zone Codes)

Bldg. No. & Name	Homogeneous Zone Code & Material Description	Sample Number	Area ID	Date Collected	Positive ACBM?	Results/ Laboratory Analysis
1069 EAST LIBRARY	M-B	BRICK & MORTAR				
		QW83	101	04/09/90	No	NEGATIVE (Non-Fiberous)
	M-CBM	CONCRETE BLOCK MORTAR				
		KY79	113	04/09/90	No	NEGATIVE (<1% Fiberous Glass & <1% Cellulose)
	M-CR	CERAMIC TILE, oatmeal color & GROUT				
		QH06	106	04/09/90	No	NEGATIVE (Non-Fiberous)
	M-CT	CEILING TILE, 12in.x 12in. textured				
		MY87	103	04/09/90	No	NEGATIVE (70-75% Fiberous Glass & 5-7% Cellulose)
		PX77	101	04/09/90	No	NEGATIVE (70-75% Fiberous Glass & 3-5% Cellulose)
		RL95	101	04/09/90	No	NEGATIVE (70-75% Fiberous Glass & 3-5% Cellulose)
		Count 3				
	M-DW	DRYWALL/GYPSUM BOARD				
		XO52	103	04/09/90	No	NEGATIVE (15-20% Cellulose & 7-10% Synthetic)
	M-FTL	FLOOR TILE, 12in.x 12in. cream textured				
		IO74	101	04/09/90	Yes	POSITIVE (1-3% CHRYSOTILE; 1-3% Cellulose)
		JQ14	101	04/09/90	Yes	POSITIVE (1-3% CHRYSOTILE; 1-3% Cellulose)
		Count 2				
	M-MT	MOSAIC TILE, 1in.x 1in. brown w/speckles & GROUT				
		NJ32	107	04/09/90	No	NEGATIVE (1-3% Cellulose)
	M-QT	QUARRY TILE & GROUT				
		EA36	111	04/09/90	No	NEGATIVE (<1% Cellulose)
	M-VB	VINYL BASE				
		OU78	110	04/09/90	No	NEGATIVE (1-3% Cellulose)
	S-P	TROWELED-ON PLASTER				

Report13
HZONSAMP

BULK SAMPLE SUMMARY REPORT w/ HOMOGENEOUS ZONE DESCRIPTIONS
(Sorted By H-Zone Codes)

Bldg. No. & Name	Homogeneous Zone Code & Material Description	Sample Number	Area ID	Date Collected	Positive ACBM?	Results/ Laboratory Analysis
		AI72	107	04/09/90	No	NEGATIVE (Non-Fiberous)
1069 EAST LIBRARY	S-P TROWELED-ON PLASTER					
		ER84	105	04/09/90	No	NEGATIVE (<1% Cellulose)
		PU83	109	04/09/90	No	NEGATIVE (<1% Cellulose)
		SD29	118	04/09/90	No	NEGATIVE (Non-Fiberous) NOTE: Listed as SD24 on Lab Analysis!
		UH78	115	04/09/90	No	NEGATIVE (<1% Cellulose)
		Count 5				
	T-DC1 DUCT CONNECTORS [Flexible Vibration Isolators], woven					
		YJ18	115	04/09/90	Yes	POSITIVE (60-65% CHRYSOTILE; 25-30% Synthetic)
	T-DC2 DUCT CONNECTORS [Flexible Vibration Isolators], fabric					
		WD78	115	04/09/90	No	NEGATIVE (90-95% Cellulose)
	T-DIM DUCT INSULATION MASTIC					
		DH69	103	04/09/90	Yes	POSITIVE (1-3% CHRYSOTILE; 3-5% Fiberous Glass, 15-20% Cellulose & 10-15% Synthetic)
	T-PFIF PIPE FITTING INSULATION [Thermal Cement], on fiberglass insulated lines, 6in. or smaller (T-PFIFS)					
		IB01	115	04/09/90	Yes	POSITIVE (10-15% CHRYSOTILE & 1-3% AMOSITE; 3-5% Fiberous Glass & 7-10% Cellulose)
		JS67	115	04/09/90	Yes	POSITIVE (10-15% CHRYSOTILE & 1-3% AMOSITE; 30-35% Fiberous Glass & 1-3% Synthetic)
		ZO61	115	04/09/90	Yes	POSITIVE (10-15% CHRYSOTILE & 3-5% AMOSITE; 5-7% Fiberous Glass & 5-7% Cellulose)
		Count 3				

Count 23

Report13
HZONSAMP

BULK SAMPLE SUMMARY REPORT w/ EXACT SAMPLE POINT LOCATIONS
(Sorted By Sample Numbers)

Bldg. No.	Building Name	Sample Number	Homogeneous Zone Code	Area ID & Exact Location	Date Collected	Positive ACBM?	Results/ Laboratory Analysis
1069	EAST LIBRARY	AI72	S-P	107 4.00'S, 4.00'E, 8.00'AFF	04/09/90	No	NEGATIVE (Non-Fiberous)
		DH69	T-DIM	103 31.00'S, 3.00'E, 9.00'AFF	04/09/90	Yes	POSITIVE (1-3% CHRYSOTILE; 3-5% Fiberous Glass, 15-20% Cellulose & 10-15% Synthetic)
		EA36	M-QT	111 0.00'N, 0.00'E, 0.00'AFF	04/09/90	No	NEGATIVE (<1% Cellulose)
		ER84	S-P	105 0.00'N, 4.50'W, 4.00'AFF	04/09/90	No	NEGATIVE (<1% Cellulose)
		IB01	T-PFIF (T-PFIFS)	115 0.00'N, 8.00'W, 2.00'AFF	04/09/90	Yes	POSITIVE (10-15% CHRYSOTILE & 1-3% AMOSITE; 3-5% Fiberous Glass & 7-10% Cellulose)
		IO74	M-FTL	101 5.50'N, 0.00'E, 0.00'AFF	04/09/90	Yes	POSITIVE (1-3% CHRYSOTILE; 1-3% Cellulose)
		JQ14	M-FTL	101 0.00'S, 5.00'W, 0.00'AFF	04/09/90	Yes	POSITIVE (1-3% CHRYSOTILE; 1-3% Cellulose)
		JS67	T-PFIF (T-PFIFS)	115 14.00'S, 12.00'E, 3.00'AFF	04/09/90	Yes	POSITIVE (10-15% CHRYSOTILE & 1-3% AMOSITE; 30-35% Fiberous Glass & 1-3% Synthetic)
		KY79	M-CBM	113 1.00'N, 0.00'E, 6.00'AFF	04/09/90	No	NEGATIVE (<1% Fiberous Glass & <1% Cellulose)
		MY87	M-CT	103 29.00'S, 5.00'E, 8.00'AFF	04/09/90	No	NEGATIVE (70-75% Fiberous Glass & 5-7% Cellulose)
		NJ32	M-MT	107 0.00'S, 7.00'E, 0.00'AFF	04/09/90	No	NEGATIVE (1-3% Cellulose)
		OU78	M-VB	110 0.00'N, 0.00'W, 0.33'AFF	04/09/90	No	NEGATIVE (1-3% Cellulose)
		PU83	S-P	109	04/09/90	No	NEGATIVE (<1% Cellulose)

Report14
ALFASAMP

BULK SAMPLE SUMMARY REPORT w/ EXACT SAMPLE POINT LOCATIONS
(Sorted By Sample Numbers)

Bldg. No.	Building Name	Sample Number	Homogeneous Zone Code	Area ID & Exact Location	Date Collected	Positive ACBM?	Results/ Laboratory Analysis
				10.00'S, 0.00'W, 1.00'AFF			
1069	EAST LIBRARY	PX77	M-CT	101 3.00'S, 6.00'W, 12.00'AFF	04/09/90	No	NEGATIVE (70-75% Fiberous Glass & 3-5% Cellulose)
		QH06	M-CR	106 2.00'S, 0.00'W, 4.00'AFF	04/09/90	No	NEGATIVE (Non-Fiberous)
		QW83	M-B	101 4.00'N, 0.00'E, 3.00'AFF	04/09/90	No	NEGATIVE (Non-Fiberous)
		RL95	M-CT	101 8.00'N, 13.00'W, 12.00'AFF	04/09/90	No	NEGATIVE (70-75% Fiberous Glass & 3-5% Cellulose)
		SD29	S-P	118 0.50'S, 3.00'E, 8.00'AFF	04/09/90	No	NEGATIVE (Non-Fiberous) NOTE: Listed as SD24 on Lab Analysis!
		UH78	S-P	115 0.00'N, 9.50'W, 9.50'AFF	04/09/90	No	NEGATIVE (<1% Cellulose)
		WD78	T-DC2	115 8.00'N, 5.00'E, 9.00'AFF	04/09/90	No	NEGATIVE (90-95% Cellulose)
		XO52	M-DW	103 30.00'S, 4.00'E, 10.00'AFF	04/09/90	No	NEGATIVE (15-20% Cellulose & 7-10% Synthetic)
		YJ18	T-DC1	115 13.50'S, 9.00'W, 7.00'AFF	04/09/90	Yes	POSITIVE (60-65% CHRYSOTILE; 25-30% Synthetic)
		ZO61	T-PFIF (T-PFIFS)	115 0.00'S, 6.00'W, 3.00'AFF	04/09/90	Yes	POSITIVE (10-15% CHRYSOTILE & 3-5% AMOSITE; 5-7% Fiberous Glass & 5-7% Cellulose)

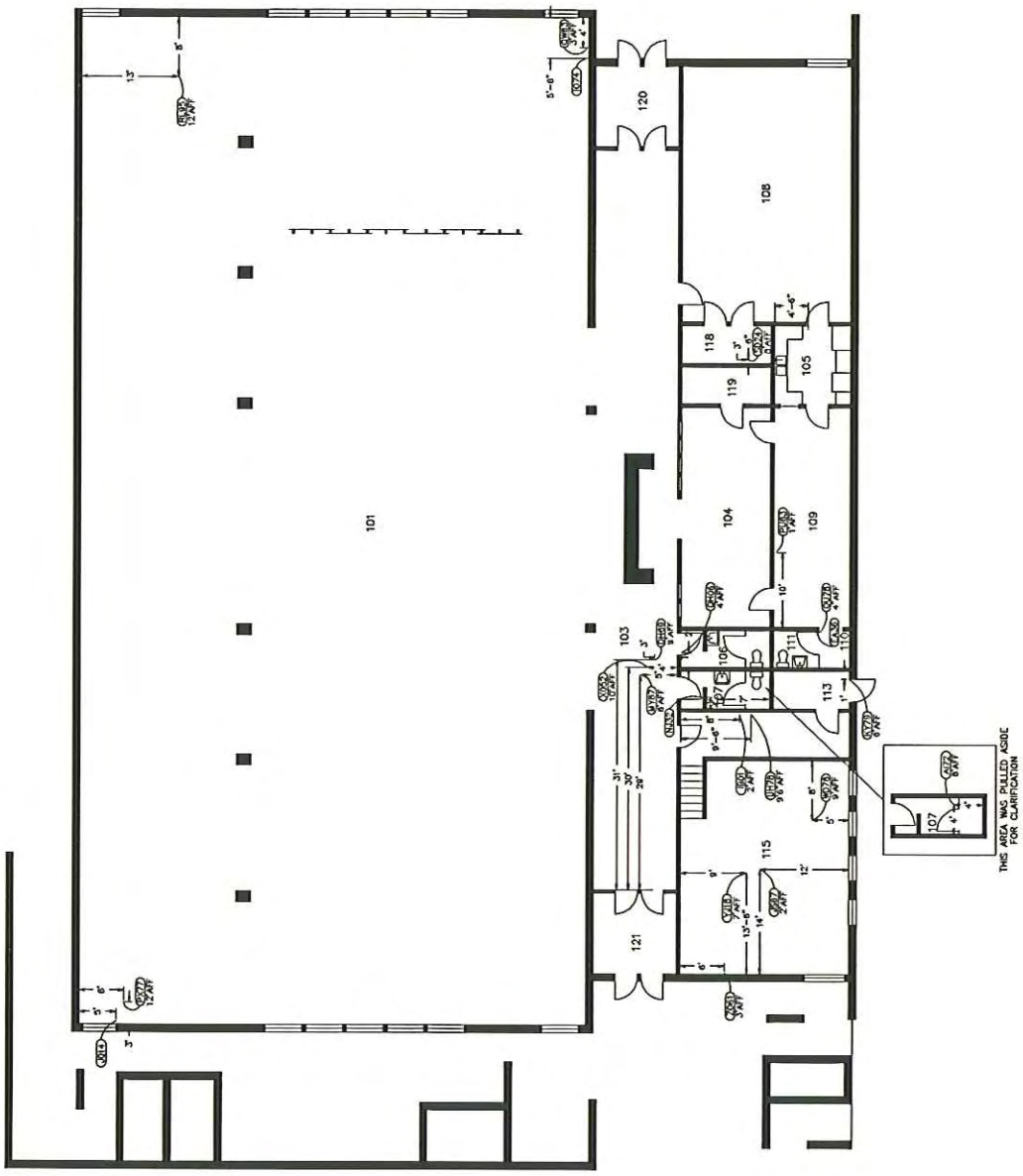
Count 23

Report14
ALFASAMP

Page 2

City of Milwaukee

EAST LIBRARY (860-1069)
FIRST FLOOR PLAN
MAY 1990



EAST LIBRARY – FIRST FLOOR PLAN

APPENDIX A

BULK SAMPLES

CHAIN OF CUSTODY,
LABORATORY ANALYSIS REPORT,
LABORATORY ACCREDITATION

lower layer - orange dot
054-99096
L9041325

MILWAUKEE PUBLIC SCHOOLS
1124 North 11th Street
Milwaukee, WI 53205-0529
Phone: 283-4600 Fax: 283-4682
RONALD G. ALLEN, P.E. - DIRECTOR
PHYSICAL PLANT DIVISION

BULK ASBESTOS SAMPLES
CHAIN OF CUSTODY RECORD / ANALYSIS WORKSHEET
for
EAST LIBRARY
1910 EAST NORTH AVENUE
MILWAUKEE, WISCONSIN 53202

BATCH NO.: C-065
TOTAL SAMPLES: 23
TOTAL PAGES: 2
SITE NO.: 1069
REQUISITION NO.: 05052

CHAIN OF CUSTODY

Relinquished By:		Received By:	
[signature] (MPS)	4/23/90 (Date)	[signature] (Lab)	[illegible] (Date)
[signature] (Lab)	6-18-90 (Date)	[signature] (MPS)	7/9/90 (Date)

WORKSHEET KEY

ASBESTOS FORM MATERIALS
CHR = CHRYSOTILE
AMO = AMOSITE
CRO = CROCIDOLITE
OTHER = (Specify Type)

NON-ASBESTOS FORM MATERIALS
CEL = CELLULOSE
FIB = FIBROUS-GLASS
OTHER = (Specify Type)

LAB NOTES: _____

SAMPLE NUMBER	DATE TAKEN	LAB ID.	ASBESTOS FIBERS % CHR	% AMO	% CRO	% OTHER	NON-ASBESTOS FIBERS % CEL	% FIB	% OTHER	NON-FIBROUS MATERIALS % TYPE
AI72	04/09/90									
DH69	04/09/90									
EA36	04/09/90									
ER84	04/09/90									
IB01	04/09/90									
IO74	04/09/90									
JQ14	04/09/90									
JS67	04/09/90									
KY79	04/09/90									

[signature]
Laboratory Analyst(s)'s Signature(s)

6-18-90
Date

SAMPLE NUMBER	DATE TAKEN	LAB ID.	ASBESTOS FIBERS % CHR	% AMO	% CRO	% OTHER	NON-ASBESTOS FIBERS % CEL	% FIB	% OTHER	NON-FIBROUS MATERIALS % TYPE
MY87	04/09/90									
NJ32	04/09/90									
OU78	04/09/90									
PU83	04/09/90									
PX77	04/09/90									
QH06	04/09/90									
QW83	04/09/90									
RL95	04/09/90									
SD24	04/09/90									
UH78	04/09/90									
WD78	04/09/90									
XO52	04/09/90									
YJ18	04/09/90									
ZO61	04/09/90									

Count 23

Barbara Kowalski, 6-18-90

Laboratory Analyst(s)'s Signature(s) Date

Professional Service Industries, Inc.
Pittsburgh Testing Laboratory Division

REPORT

Report To:	PSI - Milwaukee	Job No: 054-99096
Attn:	Jeff Grzeca	Lab No: 904328
Report For:	City of Milwaukee c/o Milwaukee Public Schools	Client No:
Project:	City of Milwaukee Buildings Batch # C-065	Report Date: 6/21/90

Dear Jeff:

Attached is the report of the bulk sample analysis for asbestos for the above referenced project. Analysis was done according to the EPA recommended method of Polarized light microscopy with dispersion staining. Results relate only to items tested. No part of this report may be reproduced except in full and only with the approval of PSI. The report may not be used to claim product endorsement by NVLAP or any government agency.

Respectfully Submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.
Pittsburgh Testing Laboratory Division

Joseph L. Kuchnicki
Laboratory Manager

JK/jam
Distribution: 2 Branch

CLIENT: City of Milwaukee c/o Milwaukee Schools
PROJECT: City of Milwaukee Buildings Batch # C-065

JOB NUMBER: 054-99096
LAB NUMBER: 904328
ANALYSIS DATE: 6/18/90
REPORT DATE: 6/21/90

REPORT OF BULK SAMPLE ANALYSIS

SERIAL NO	FIELD ID	CONTAINS ASBESTOS	TYPE OF ASBESTOS (1,2,3,4,5)	TOTAL %	COLOR	FIBEROUS	HOMO-GENEOUS	LAYERED	OTHER FIBERS (A,B,C,D)	NONFIBER MATERIAL	COMMENTS
ASB 10974	AI 72	No	NAD	-	Off White	No	Yes	No	N/D	N/A	
ASB 10975	DH 69	Yes	1	1-3%	Black/Tan/Silver	Yes	Yes	Yes	A 3-5%	N/A	
									B 15-20%		
									C 10-15%		
ASB 10976	EA 36	No	NAD	-	Beige	Yes	Yes	No	B < 1%	N/A	
ASB 10977	ER 84	No	NAD	-	Gray/White	Yes	Yes	Yes	B < 1%	N/A	
ASB 10978	IB 01	Yes	1	10-15%	Off White	Yes	Yes	Yes	A 3-5%	N/A	
			2	1-3%					B 7-10%		
ASB 10979	IO 74	Yes	1	1-3%	Off White	Yes	Yes	No	B 1-3%	N/A	
ASB 10980	JQ 14	Yes	1	1-3%	Off White	Yes	Yes	No	B 1-3%	N/A	
ASB 10981	JS 67	Yes	1	10-15%	Off White	Yes	Yes	No	A 30-35%	N/A	
			2	1-3%					C 1-3%		
ASB 10982	KY 79	No	NAD	-	Gray	Yes	Yes	Yes	A < 1%	N/A	
									B < 1%		
ASB 10983	MY 87	No	NAD	-	Off White	Yes	Yes	No	A 70-75%	N/A	
									B 5-7%		
ASB 10984	NJ 32	No	NAD	-	Beige	Yes	Yes	No	B 1-3%	N/A	
ASB 10985	OU 78	No	NAD	-	Beige/Brown	Yes	Yes	Yes	B 1-3%	N/A	

Asbestos Type:
1. Chrysotile
2. Amosite
3. Crocidolite
4. Tremolite/ Actinolite
5. Anthophyllite

ANALYTICAL ANALYSIS METHOD: EPA recommended PLM with dispersion staining

ANALYZED BY: Barbara Lewandowski
Barbara Lewandowski

Other Fibers:
A. Fiberous glass
B. Cellulose
C. Synthetic
D. Other

N/D - None Detected
N/A - Not Analyzed
NAD - No Asbestos Detected

CLIENT: City of Milwaukee c/o Milwaukee Schools
PROJECT: City of Milwaukee Buildings Batch # C-065

JOB NUMBER: 054-99096
LAB NUMBER: 904328
ANALYSIS DATE: 6/18/90
REPORT DATE: 6/21/90

REPORT OF BULK SAMPLE ANALYSIS

SERIAL NO	FIELD ID	CONTAINS ASBESTOS	TYPE OF ASBESTOS (1,2,3,4,5)	TOTAL %	COLOR	FIBEROUS	HOMO-GENEOUS	LAYERED	OTHER FIBERS (A,B,C,D)	NONFIBER MATERIAL	COMMENTS
ASB 10986	PU 83	No	NAD	-	Beige	Yes	Yes	Yes	B < 1%	N/A	
ASB 10987	PX 77	No	NAD	-	White	Yes	Yes	No	A 70-75%	N/A	
									B 3-5%		
ASB 10988	QH 06	No	NAD	-	White	No	Yes	No	N/D	N/A	
ASB 10989	QW 83	No	NAD	-	Gray/Brown	No	No	No	N/D	N/A	
ASB 10990	RL 95	No	NAD	-	White/Gray/Black	Yes	No	Yes	A 70-75%	N/A	
									B 3-5%		
ASB 10991	SD 24	No	NAD	-	Off White	No	Yes	No	N/D	N/A	
ASB 10992	UH 78	No	NAD	-	Lt. Gray	Yes	Yes	No	B < 1%	N/A	
ASB 10993	WD 78	No	NAD	-	Black	Yes	Yes	No	B 90-95%	N/A	
ASB 10994	XO 52	No	NAD	-	White/Tan	Yes	Yes	Yes	B 15-20%	N/A	
									C 7-10%		
ASB 10995	YJ 18	Yes	1	60-65%	Off White/Brown	Yes	Yes	No	C 25-30%	N/A	
ASB 10996	ZO 61	Yes	1	10-15%	White/Black	Yes	No	No	A 5-7%	N/A	
			2	3-5%					B 5-7%		

Asbestos Type:
1. Chrysotile
2. Amosite
3. Crocidolite
4. Tremolite/ Actinolite
5. Anthophyllite

ANALYTICAL ANALYSIS METHOD: EPA recommended PLM with dispersion staining

ANALYZED BY: Barbara Lewandowski
Barbara Lewandowski

Other Fibers:
A. Fiberous glass
B. Cellulose
C. Synthetic
D. Other

N/D - None Detected
N/A - Not Analyzed
NAD - No Asbestos Detected

United States Department of Commerce
National Institute of Standards and Technology

NVLAP

Certificate of Accreditation

PROFESSIONAL SERVICE INDUSTRIES, INC.
PITTSBURGH TESTING LABORATORY DIVISION
PITTSBURGH, PA

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 7 Code of Federal Regulations. Accreditation is awarded for specific services, listed on the Scope of Accreditation, for:

ASBESTOS FIBER ANALYSIS

April 1, 1990

Effective until

DEPARTMENT OF COMMERCE • UNITED STATES OF AMERICA •

For the National Institute of Standards and Technology

DEC 08 '89 10:37 PSI/PTL PITTSBURGH P.5/6

National Institute of Standards and Technology NVLAP National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION

ASBESTOS FIBER ANALYSIS NVLAP LAB CODE 1350 00

Professional Service Industries, Inc.
Pittsburgh Testing Laboratory Division
850 Poplar Street
Pittsburgh, PA 15220
Mr. Bruce Erdner Phone: 412-922-4000

Accreditation Reneval Date: April 1, 1990

NVLAP Test Method Code	Test Method Designation
18/A01	40 Code of Federal Regulations Chapter I (1-1-87 edition) Part 763, Subpart F, Appendix A, pages 293-299 or the current U.S. Environmental Protection Agency method for the analysis of asbestos in building materials by polarized light microscopy.

DEPARTMENT OF COMMERCE · UNITED STATES OF AMERICA ·

For the National Institute of Standards and Technology

APPENDIX B

HOMOGENEOUS ZONE PHOTOGRAPHS (Arranged by H-Zone Code)