
EnviroScience Consultants inc.

Environmental Engineering ◦ Industrial Hygiene ◦ Laboratory Services

October 26, 1992

Mr. Thomas Psomas
Manager of Environmental Services
New Milford Public Schools
50 East Street
New Milford, CT 06776

RE: Designated Person Surveillance
September 1992
ESC Project No. 90-0234C

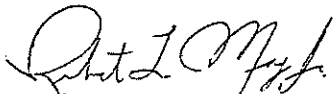
Dear Mr. Psomas:

Enclosed are the reports generated from the Asbestos Periodic Surveillance inspections conducted on October 8, 1992. The forms (ED-076A) have been filled out for each school.

Also included are summary pages from the reports generated from the asbestos removal work performed during the previous six (6) months. The forms (ED-076B) have been filled out with attachments and are also included. These forms should be added to the permanent file on hand at each school to document updates and revisions to the Management Plan for the State to review, if necessary.

Should you have any questions regarding this material, do not hesitate to contact us.

Sincerely,



Robert L. May, Jr.
Technical Designer

invoiced 12/4/92

RLM:des

90-02341:PC6

DESIGNATED PERSON REPORT
ASBESTOS PROGRAM

On October 8, 1992, EnviroScience Consultants, Inc.'s Technical Designer, Robert L. May, Jr. performed routine inspections for the New Milford Public School System. The inspection was conducted under the Designated Person Periodic Surveillance program as described in the AHERA regulations.

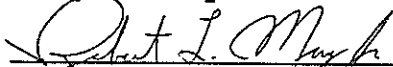
The inspections were conducted in order to update the present conditions of known or assumed asbestos-containing building materials (ACBM) noted on the most recent Asbestos Management Plans and to identify areas where corrective measures may be required. The March and April, 1990, New Milford Asbestos Management Plans were referenced during the October, 1992, inspection, as well as the March, 1992, Designated Person Reports. In addition, the asbestos abatement reports generated from the asbestos removal work which occurred during the previous six (6) months were used to prepare the reports.

The following buildings were inspected on October 8, 1992: The New Milford Public Schools Maintenance Building on Bridge Street, the Lillis Administration Building at 50 East Street, Hill and Plain School at 60 Old Town Park Road, Schaghticoke Middle School and Northville School on Hipp Road, Pettibone Elementary School at 2 Pickett District Road, and the New Milford High School at 25 Sun Valley Road. The inspections involved the visual reassessment of any ACBM or Assumed ACBM listed in the Asbestos Management Plan for each school. The date of the inspection and location of the material was noted along with any changes in the condition of the material and recommended response actions. The reinspection forms are attached.

The following buildings had ACBM or assumed ACBM, the condition of which has changed, along with the response action since the previous inspection: Schaghticoke School, Pettibone Elementary School, and the New Milford High School. Most of the changes in these schools was due to extensive renovation activities and removal of asbestos during the previous six (6) months. Please refer to the attached ED-076B for Asbestos Abatement Activities and the attached Table I which summarizes the results of this surveillance.

In addition, two (2) new assumed ACBM have been identified in the following buildings: 1) New Milford High School - an additional fume hood was identified in classroom 153, and 2) Maintenance Building on Bridge Street - 9" X 9" assumed asbestos-containing floor tile was identified on the second floor.

Prepared by:



Robert L. May, Jr.
Technical Designer

Reviewed by:



Ralph L. Gumpert, CIH, CSP
Principal Environmental Hygienist

90-02341:PC6

TABLE I

Schaghticoke Middle School, Hipps Road, New Milford, Connecticut

<u>ACBM</u>	<u>Location</u>	<u>Type</u>	<u>Observed Condition</u>	<u>Recommended Response Action</u>	<u>Date</u>
Ext. Transite Soffit Panels	Across from Field Hockey field	Misc.	3 damaged panels	Removal	1 yr.

Pettibone Elementary School, 2 Pickett District Road, New Milford, Connecticut

<u>ACBM</u>	<u>Location</u>	<u>Type</u>	<u>Observed Condition</u>	<u>Recommended Response Action</u>	<u>Date</u>
Floor tile	Throughout	Misc.	Material has been covered with new 12' x 12' VCT or carpeting.		
Pipe fitting cement	Pipe tunnels throughout	TSI	Material was removed in Summer of 1992.		

New Milford High School, 25 Sunny Valley Road, New Milford, Connecticut

<u>ACBM</u>	<u>Location</u>	<u>Type</u>	<u>Observed Condition</u>	<u>Recommended Response Action</u>	<u>Date</u>
Pipe fittings	1962 pipe tunnels	TSI	Many damaged elbows with debris on tunnel floors.	Removal	1 yr.

TOWN/REGION NAME <u>New Milford</u>	FACILITY NAME AND ADDRESS <u>Maintenance Building, Bridge Street</u>	DATE OF AMP UPDATE <u>10/8/92</u>
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General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

- Asbestos Containing Area: Basement - Boiler Room
- Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
Pipe Insulation___ Duct___ Breeching Tank___
Other (specify) _____
- ACM Previously Identified ACM Newly Identified ___ Basis S___ A
- Amount of ACM: 125 sq. ft.
- Friability: High___ Moderate Low___ Non-friable___
- Condition:
Water Damage High___ Moderate___ Low None___
Physical Damage High___ Moderate Low___ None___

Additional Comments (provide description) Material is beginning to come loose from boiler breech.

- Abatement/Remediation Method (Response Action)
Removal___ Enclosure___ Encapsulation___
Operation and Maintenance Only
- Date for Implementation Continue
- Rationale for Abatement/Remediation Method (Response Action) selected:
Area is not occupied and building is only used for storage purposes. Refer to March 1990 AMP.

TOWN/REGION NAME	FACILITY NAME AND ADDRESS	DATE OF AMP UPDATE
New Milford	Maintenance Building, Bridge Street	10/8/92

General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

- Asbestos Containing Area: Basement - Throughout
- Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
 Pipe Insulation: Duct___ Breeching___ Tank___
 Other (specify) Elbow/Fitting cement
- ACM Previously Identified ACM Newly Identified___ Basis S___ A
- Amount of ACM: 450 Lin ft. ACM.
- Friability: High___ Moderate Low___ Non-friable___
- Condition:
 Water Damage High___ Moderate___ Low None___
 Physical Damage High___ Moderate Low___ None___

Additional Comments (provide description) 5 elbows are deteriorated and have covers which are not intact.

- Abatement/Remediation Method (Response Action)
 Removal___ Enclosure___ Encapsulation___
 Operation and Maintenance Only
- Date for Implementation Continue
- Rationale for Abatement/Remediation Method (Response Action) selected:
Area is not occupied and building is only used for storage purposes. Refer to March 1990 AMP.

Section 10-292a-7, Regulations
of Connecticut State Agencies
Rev. 10/89

STATE OF CONNECTICUT
Department of Education
BUREAU OF GRANTS PROCESSING
SCHOOL FACILITIES UNIT
P.O. BOX 2219, Hartford, CT 06145

3 of 3

TOWN/REGION NAME New Milford	FACILITY NAME AND ADDRESS Maintenance Building, Bridge Street	DATE OF AMP UPDATE 10/8/92
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General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

1. Asbestos Containing Area: Second Floor - Room above loading dock.

2. Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
Pipe Insulation___ Duct___ Breeching___ Tank___
Other (specify) Floor tile

3. ACM Previously Identified ___ ACM Newly Identified Basis S ___ A

4. Amount of ACM: 150 sq. ft.

5. Friability: High___ Moderate___ Low___ Non-friable

6. Condition:
Water Damage High___ Moderate___ Low___ None
Physical Damage High___ Moderate___ Low None___

Additional Comments (provide description) _____

7. Abatement/Remediation Method (Response Action)
Removal___ Enclosure___ Encapsulation___
Operation and Maintenance Only

8. Date for Implementation 10/8/92

9. Rationale for Abatement/Remediation Method (Response Action) selected:
Refer to March 1990 AMP.

TOWN/REGION NAME	FACILITY NAME AND ADDRESS	DATE OF AMP UPDATE
New Milford	Lillis Administration Building, 50 EAST Street	10/8/92

General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

1. Asbestos Containing Area: Throughout Building
2. Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
 Pipe Insulation___ Duct___ Breeching___ Tank___
 Other (specify) Floor Tile
3. ACM Previously Identified ACM Newly Identified___ Basis S___ A
4. Amount of ACM: 5,800 sq. ft.
5. Friability: High___ Moderate___ Low___ Non-friable
6. Condition:
 Water Damage High___ Moderate___ Low___ None
 Physical Damage High___ Moderate___ Low None___

Additional Comments (provide description) _____

7. Abatement/Remediation Method (Response Action)
 Removal___ Enclosure___ Encapsulation___
 Operation and Maintenance Only
8. Date for Implementation Continue
9. Rationale for Abatement/Remediation Method (Response Action) selected:
Refer to March 1990 AMP

Section 10-292a-7, Regulations
of Connecticut State Agencies
Rev. 10/89

STATE OF CONNECTICUT
Department of Education
BUREAU OF GRANTS PROCESSING
SCHOOL FACILITIES UNIT
P.O. BOX 2219, Hartford, CT 06145

1 of 2

TOWN/REGION NAME	FACILITY NAME AND ADDRESS	DATE OF AMP UPDATE
New Milford	Northville School, Hipp Road	10/8/92

General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

1. Asbestos Containing Area: Ground Floor - Boiler Room

2. Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
Pipe Insulation___ Duct___ Breeching Tank___
Other (specify) Caulking material

3. ACM Previously Identified ACM Newly Identified___ Basis S___ A

4. Amount of ACM: 300 sq. ft.

5. Friability: High___ Moderate Low___ Non-friable___

6. Condition:
Water Damage High___ Moderate___ Low___ None
Physical Damage High___ Moderate___ Low None___

Additional Comments (provide description) _____

7. Abatement/Remediation Method (Response Action)
Removal___ Enclosure___ Encapsulation___
Operation and Maintenance Only

8. Date for Implementation Continue

9. Rationale for Abatement/Remediation Method (Response Action) selected:

Refer to March 1990 AMP.

TOWN/REGION NAME	FACILITY NAME AND ADDRESS	DATE OF AMP UPDATE
New Milford	Northville School, Hipp Road	10/8/92

General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

1. Asbestos Containing Area: Throughout Building
2. Type of ACM: Sprayed-on Troweled-on Boiler Lagging
Pipe Insulation Duct Breeching Tank
Other (specify) Floor tile
3. ACM Previously Identified ACM Newly Identified Basis S A
4. Amount of ACM: 10,000 sq. ft.
5. Friability: High Moderate Low Non-friable
6. Condition:
Water Damage High Moderate Low None
Physical Damage High Moderate Low None

Additional Comments (provide description) _____

7. Abatement/Remediation Method (Response Action)
Removal Enclosure Encapsulation
Operation and Maintenance Only
8. Date for Implementation Continue
9. Rationale for Abatement/Remediation Method (Response Action) selected:
Refer to March 1990 AMP.

TOWN/REGION NAME	FACILITY NAME AND ADDRESS	DATE OF AMP UPDATE
New Milford	Schaghticoke Middle School, Hipp Road	10/8/92

General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

- Asbestos Containing Area: Building Exterior
- Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
 Pipe Insulation___ Duct___ Breaching___ Tank___
 Other (specify) Soffit materials
- ACM Previously Identified ACM Newly Identified___ Basis S___ A
- Amount of ACM: 1,200 sq. ft.
- Friability: High___ Moderate___ Low___ Non-friable
- Condition:
 Water Damage High___ Moderate___ Low None___
 Physical Damage High___ Moderate___ Low None___

Additional Comments (provide description) _____

- Abatement/Remediation Method (Response Action)
 Removal___ Enclosure___ Encapsulation___
 Operation and Maintenance Only
- Date for Implementation Continue
- Rationale for Abatement/Remediation Method (Response Action) selected:
Three (3) panels are damaged across from field
hockey field. These panels should be removed.
Refer to March 1990 AMP.

TOWNSHIP/REGION NAME New Milford	FACILITY NAME AND ADDRESS Schaghticoke Middle School, Hipp Road	DATE OF AMP UPDATE 10/8/92
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General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

1. Asbestos Containing Area: Boiler Room
2. Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
Pipe Insulation___ Duct___ Breeching Tank___
Other (specify)_____
3. ACM Previously Identified ACM Newly Identified___ Basis S A___
4. Amount of ACM: 200 sq. ft.
5. Friability: High___ Moderate Low___ Non-friable___
6. Condition:
Water Damage High___ Moderate___ Low None___
Physical Damage High___ Moderate___ Low None___

Additional Comments (provide description) There is evidence of contact damage and cracking, this can be attributed to recent roof removal and replacement over boiler room.

7. Abatement/Remediation Method (Response Action)
Removal___ Enclosure___ Encapsulation___
Operation and Maintenance Only
8. Date for Implementation Continue
9. Rationale for Abatement/Remediation Method (Response Action) selected:
These areas should be watched for increased damage. At present condition doesn't warrant any further response action. Refer to March 1990 AMP.

TDMS REGION NAME New Milford	FACILITY NAME AND ADDRESS Schaghticoke Middle School, Hipp Road	DATE OF AMP UPDATE 10/8/92
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General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

- Asbestos Containing Area: Mechanical Rooms
- Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
Pipe Insulation: Duct___ Breeching___ Tank___
Other (specify) _____
- ACM Previously Identified ACM Newly Identified___ Basis S___ A
- Amount of ACM: 19 sq. ft.
- Friability: High___ Moderate Low___ Non-friable___
- Condition:
Water Damage High___ Moderate___ Low___ None
Physical Damage High___ Moderate___ Low None___

Additional Comments (provide description) _____

- Abatement/Remediation Method (Response Action)
Removal___ Enclosure___ Encapsulation___
Operation and Maintenance Only
- Date for Implementation Continue
- Rationale for Abatement/Remediation Method (Response Action) selected:
Refer to March 1990 AMP.

TOWN/REGION NAME <u>New Milford</u>	FACILITY NAME AND ADDRESS <u>Schaghticoke Middle School, Hipp Road</u>	DATE OF AMP UPDATE <u>10/8/92</u>
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General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

- Asbestos Containing Area: Through-out School
- Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
 Pipe Insulation___ Duct___ Breeching___ Tank___
 Other (specify) Floor Tile
- ACM Previously Identified ACM Newly Identified___ Basis S___ A
- Amount of ACM: 56,250 sq. ft.
- Friability: High___ Moderate___ Low___ Non-friable
- Condition:
 Water Damage High___ Moderate___ Low___ None
 Physical Damage High___ Moderate___ Low___ None

Additional Comments (provide description) Many areas have been covered with new 12x12 VCT or Carpeting.

- Abatement/Remediation Method (Response Action)
 Removal___ Enclosure___ Encapsulation___
 Operation and Maintenance Only
- Date for Implementation Continue
- Rationale for Abatement/Remediation Method (Response Action) selected:
Refer to March 1990 AMP.

TOWN/REGION NAME	FACILITY NAME AND ADDRESS	DATE OF AMP UPDATE
New Milford	Schaghticoke Middle School, Hipp Road	10/8/92

General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

Please number the pages of each Schedule B being submitted in the upper right hand corner.

1. Asbestos Containing Area Throughout School

2. Material(s)

Type <u>AC Pipe fittings</u>	Amount <u>2 elbows</u>
Type <u>Transite Panels</u>	Amount <u>1A previously removed pieces.</u>
Type <u>AC Floor tile transite</u>	Amount <u>100 sq. ft.</u>
Type <u>Boxes of VAT</u>	Amount <u>4 boxes</u>
Type <u>Mastic</u>	Amount <u>1,440 sq. ft.</u>
Type _____	Amount _____

Hill & Plavin

3. Name and Address of Abatement Contractor

National Abatement Services, Inc.
150 Recreation Park Drive
Hingham, MA 02043

4. Name and Address of School District Project Coordinator

Dr. Stephen C. Tracy - Superintendent
50 East Street
New Milford, CT 06776

5. Name and Address of Air Sampling Professional

Enviro Science Consultants, Inc.
252 Hartford Avenue
Newington, CT 06111

6. Air Sampling Clearance Results

Attached No Clearance Air Samples Collected _____

7. Date of Project Start September 1, 1992

8. Date of Project Completion September 3, 1992

ASBESTOS ABATEMENT PROJECT MONITORING REPORT

SCHAGHTICOKE MIDDLE SCHOOL
HIP ROAD
NEW MILFORD, CONNECTICUT

INTRODUCTION:

EnviroScience Consultants, Inc., (ESC), was retained to provide asbestos abatement project monitoring services at the Schaghticoke Middle School. Asbestos abatement was necessary due to renovations associated with the code violation and energy conservation.

The project required ESC and National Abatement Services to provide abatement and monitoring services on an as-needed basis. As demolition progressed through the building, any asbestos-containing material (ACM) discovered was promptly addressed to expedite the renovation process. The bulk of work consisted of vinyl-asbestos floor tile (VAT) removal necessitated by the General Contractor's construction needs.

In addition to air sampling, ESC's Environmental Consultant, Alaine Lagasse, performed job site inspections. Prior to the beginning of removal activities, a precommencement inspection was conducted. This was to document that work area preparations were performed in accordance with the written technical specifications. During removal activities, progress inspections were conducted inside the work area to assess work progress and work procedures for adherence to contract specifications. Presealant inspections were also conducted to verify that the work area met the non-visible dust criteria prior to conducting final air clearance. A post-teardown inspection was also performed to ensure that all ACM was removed.

SCOPE OF WORK:

The scope of the abatement work included the removal and disposal of the ACM listed for each of the following locations:

LOCATION

ACM REMOVED

- | | |
|--------------------|--|
| 1. Kitchen | Approximately 100 sq. ft. of VAT and associated mastic |
| 2. Boxed VAT | Three boxes of VAT |
| 3. Transite Boards | Fourteen pieces of previously removed and wrapped |

DISCUSSION:

The asbestos abatement project in the kitchen of the Schaghticoke Middle School consisted of the complete removal of approximately 100 square feet of vinyl asbestos floor tile and associated mastic which had water damage from the summer construction project. Additional removal consisted of 4 boxes of floor tile which was previously damaged and subsequently collected for disposal as well as 14 pieces of transite board.


CONCLUSION:

All work areas passed pre-sealant visual inspections prior to work area encapsulation by the contractor. Following encapsulation, aggressive final air clearance sampling was conducted in accordance with the requirements of the State of Connecticut Department of Health Services air clearance criteria.

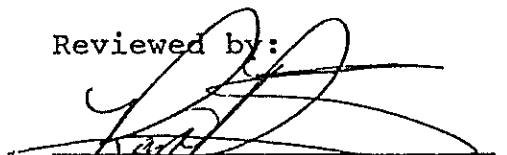
All work was performed within the allotted time frame. There were no delays caused by, or incurred by, the asbestos abatement contractor.

Phase Contrast Microscopy (PCM) air samples were analyzed by a trained project monitor listed on the Asbestos Analyst's Registry maintained by the American Industrial Hygiene Association.

Report prepared by:


Alaine V. Lagasse
Environmental Consultant

Reviewed by:


Raymond R. Folino
Project Manager

91-0126L:PC9

DAILY MONITORING DATA

DATE: 9/3/92 ESC PROJ # 91-012CD
 TECHNICIAN: A. LABADIE AAR #: 9504
 BUILDING: Schaghticoke Middle
 AREA: Kitchen

INSPECTIONS* (PC, PR, PS, TD)	WORK AREA	TIME
1. <u>TD</u>	<u>Kitchen</u>	<u>1300</u>
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

SAMPLE #	LOCATION**	ACTIVITY***	RESULTS (f/cc)
1. <u>09-03-AL-BUK</u>	<u>FIELD BLANK</u>	<u>FAC</u>	<u>0 f/min²</u>
2. <u>-01</u>	<u>Inside Kitchen</u>	<u>FAC</u>	<u>0.005 f/cc</u>
3. <u>-02</u>	↓	<u>FAC</u>	<u>0.005</u>
4. <u>-03</u>		<u>FAC</u>	<u>0.005</u>
5. <u>-04</u>		<u>FAC</u>	<u>0.005</u>
6. <u>-05</u>		<u>FAC</u>	<u>0.005</u>
7. _____		_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____

*Inspection Key: PC = Pre-commencement; PR = Progress; PS = Pre-sealant; TD = Teardown

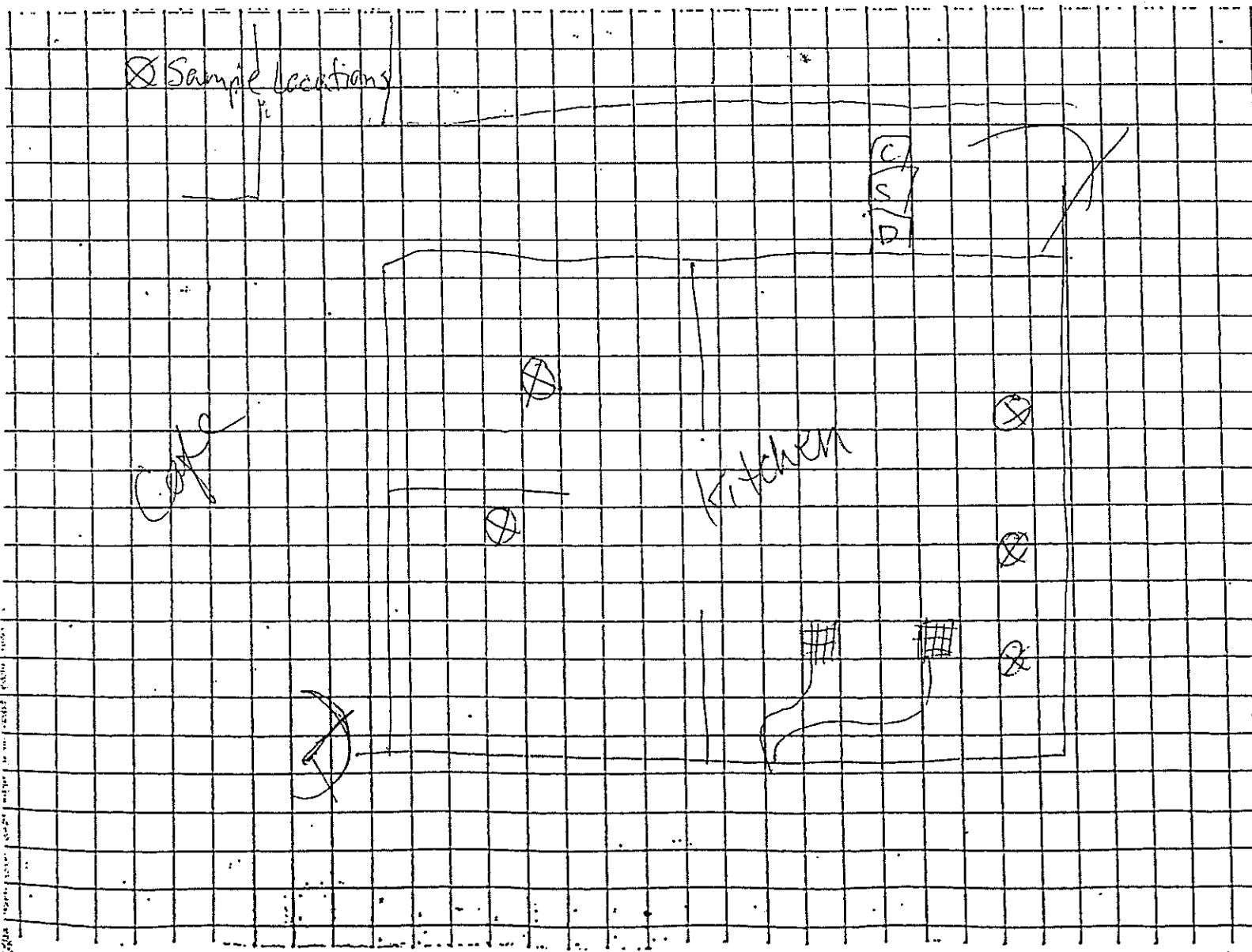
**Location Key: NAE = Negative Air Exhaust; DECON; OCB = Outside Critical Barrier

***Activity Key: PA = Pre-abatement; SU = Prep Setup; DR = During Removal; FC = Final Cleaning; FAC = Final Air Clearance

DATE: 9/3/92

COMMENTS: PPE conducted first thing. Tear down
starts by 10/15. Tear down complete 1300.
2 elbows removed at Hill + Plain School by glove
bag, prior to tear down of kitchen containment.

WORK AREA DIAGRAM/DAILY SAMPLE LOCATIONS:



10F1

TOWN/REGION NAME <u>New Milford</u>	FACILITY NAME AND ADDRESS <u>Pettibone Elementary School, 2 Picetl District Rd.</u>	DATE OF AMP UPDATE <u>10/8/92</u>
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General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

In an area containing more than one type of ACM, a separate Schedule A must be provided for each material. Please number the pages of each Schedule A being submitted in the upper right hand corner.

- Asbestos Containing Area: Through out School
- Type of ACM: Sprayed-on___ Troweled-on___ Boiler Lagging___
Pipe Insulation:___ Duct___ Breeching___ Tank___
Other (specify) FLOOR TILE
- ACM Previously Identified ACM Newly Identified___ Basis S___ A
- Amount of ACM: 46,970 sq. ft.
- Friability: High___ Moderate___ Low___ Non-friable
- Condition:
Water Damage High___ Moderate___ Low___ None
Physical Damage High___ Moderate___ Low None___

Additional Comments (provide description) Some material was removed to accomodate new partition walls during summer renovation work the remainder has been covered with VCT.

- Abatement/Remediation Method (Response Action)
Removal___ Enclosure___ Encapsulation___
Operation and Maintenance Only
- Date for Implementation Continue.
- Rationale for Abatement/Remediation Method (Response Action) selected:
Refer to April 1990 AMP.

TOWN/REGION NAME New Milford	FACILITY NAME AND ADDRESS Pettibone Elementary School, 2 Picett District Rd.	DATE OF AMP UPDATE 10/8/92
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General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

Please number the pages of each Schedule B being submitted in the upper right hand corner.

1. Asbestos Containing Area Throughout School

2. Material(s)

Type <u>Pipe Insulation</u>	Amount <u>1,500 Lin. ft.</u>
Type <u>AC Pipe fittings</u>	Amount <u>130 fittings</u>
Type <u>Transite Panels</u>	Amount <u>744 sq. ft.</u>
Type <u>AC FLOOR TILE (VAT)</u>	Amount <u>3,500 sq. ft.</u>
Type <u>Mastic</u>	Amount <u>3,500 sq. ft.</u>
Type _____	Amount _____

3. Name and Address of Abatement Contractor

National Abatement Services, Inc.
150 Recreation Park Drive
Hingham, MA 02043

4. Name and Address of School District Project Coordinator

Dr. Stephen C. Tracy - Superintendent
50 East Street
New Milford, CT 06776

5. Name and Address of Air Sampling Professional

EnviroScience Consultants, Inc.
252 Hartford Avenue
Newington, CT 06111

6. Air Sampling Clearance Results

Attached No Clearance Air Samples Collected _____

7. Date of Project Start June 22, 1992

8. Date of Project Completion August 17, 1992

ASBESTOS ABATEMENT PROJECT MONITORING

Pettibone Elementary School
2 Pickett District Road
New Milford, Connecticut

INTRODUCTION:

EnviroScience Consultants, Inc. (ESC) was retained to provide asbestos abatement project monitoring services at the Pettibone Elementary School. Asbestos abatement was necessary due to code update renovation.

Project specifications and bid documents were prepared by EnviroScience Consultants, Inc. The Construction Management Team was O & G Industries of Torrington, CT. The asbestos abatement contractor was National Abatement Service of Massachusetts.

Prior to the commencement of abatement activities, preabatement air samples were collected by ESC. Preabatement samples establish the ambient, or existing, airborne fiber concentrations prior to the start of any abatement actions. Upon commencement of abatement activities, background air samples were collected. These background samples were collected at various locations such as the entrance to the worker decontamination facility, outside critical barriers, and at the negative air exhaust. These samples were collected and analyzed in order to monitor the air quality outside the containment during the abatement process. Comparisons were then made between preabatement samples and background samples. This was done in order to assess the air quality at the work site during the abatement project. Following the completion of final cleaning and encapsulation of the work area, aggressive final air clearance sampling was performed inside the work area to comply with state and federal regulatory requirements.

In addition to air sampling, ESC's Environmental Consultants Stephen Kole, James Gallagher, Jason Krantz and Robert Quinn performed job site inspections. Prior to the beginning of removal activities, a precommencement inspection was conducted. This was to document that work area preparations were performed in accordance with the written technical specifications. During removal activities, progress inspections were conducted inside the work area to assess work progress and work procedures for adherence to contract specifications. Presealant inspections were also conducted to verify that the work area met the non-visible dust criteria prior to conducting final air clearance. A post-teardown inspection was also performed to ensure that all ACM was removed.

SCOPE OF WORK:

The scope of the abatement work included the removal and disposal of the ACM listed for each of the following locations:

Drawing #AR-2

A. Work Area #2

Work included the complete removal and disposal of all VAT and associated mastic from the existing library area. Also included was the removal and disposal of all affected carpeting as construction debris. Eight (8) sections of millwork were relocated to the outside of work area #15 for removal of transite backing. This included but was not limited to the following estimated quantities:

1. Vinyl asbestos tile and associated mastic.....1,800 square feet
2. Carpet (construction debris).....1,800 square feet
3. Transite millwork backing..... 144 square feet

B. Work Area #3

Work included the complete removal and disposal of all VAT and associated mastic in the existing kitchen/storage area to the new serving line area wall. Also included was a portion of the north wing corridor to accommodate door replacement. Transite wall panels at west wall of kitchen were removed. Following removal, one-half inch (1/2") plywood was secured in place with wood screws. Weatherproofing, as required, was provided to protect kitchen floor. This included but was not limited to the following estimated quantities:

1. Vinyl asbestos tile and associated mastic.....1,700 square feet
2. Double-sided transite wall panels..... 120 square feet

C. Work Area #4

Work included the complete removal and disposal of all transite wall panels in the auditorium/gymnasium area. Following removal, one-half inch (1/2") plywood was secured in place with wood screws. Weatherproofing, as required, was provided to protect gymnasium floor. This included but was not limited to the following quantities:

1. Transite wall panels..... 480 square feet

D. Pipe Tunnels - East and West Wings

Work included complete removal and disposal of all thermal system insulation from the East and West pipe tunnels. This included but was not limited to the following estimated quantities:

1. Asbestos-containing pipe insulation..... 1,500 linear feet
2. Asbestos-containing mud pack fittings..... 130 fittings
3. Fiberglass pipe insulation..... unknown

DISCUSSION:

Due to major renovations taking place at the Pettibone Elementary School, the project called for continuous coordination between EnviroScience Consultants, Inc., National Abatement, and O & G Industries. The three parties consistently stayed in contact and were able to expedite the schedule regardless of changes in priority areas as work progressed. With several trades present at all times throughout the building, elevated dust levels were recorded at times. However, these levels were consistent with preabatement levels.

All exterior gymnasium transite panels were removed in a cordoned-off area under wet removal techniques with minimum breakage and were bagged directly.

CONCLUSION:

All work areas passed pre-sealant visual inspections prior to work area encapsulation by the contractor. Following encapsulation, aggressive final air clearance sampling was conducted in accordance with the requirements of the State of Connecticut Department of Health Services air clearance criteria.

All work was performed within the allotted time frame. There were no delays caused by, or incurred by, the asbestos abatement contractor.

Phase Contrast Microscopy (PCM) air samples were analyzed by a trained project monitor listed on the Asbestos Analyst's Registry maintained by the American Industrial Hygiene Association.

Transmission Electron Microscopy (TEM) analyses were performed by Electron Microscopy Services Laboratories, Inc., a Connecticut-certified laboratory. Laboratory results are attached.

Report prepared by:

Alaine Lagasse
Environmental Consultant

Reviewed by:


Raymond R. Folino
Project Manager

910126D:PC6

DAILY MONITORING DATA

DATE: 7-20-92 ESC PROJ # 91-0126B
 TECHNICIAN: Jay Krantz AAR #: _____
 BUILDING: Pettibone Elementary School
 AREA: Work Area #14, VAT in hallway outside rm 36

INSPECTIONS* (PC, PR, PS, TD)	WORK AREA	TIME
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

SAMPLE #	LOCATION**	ACTIVITY***	RESULTS (f/cc)
1. <u>7-20-JK-1</u>	<u>Blank</u>	_____	_____
2. <u>7-20-JK-2</u>	<u>Blank</u>	_____	_____
3. <u>7-20-JK-3</u>	<u>Inside conf.</u>	<u>FAC</u>	<u>.0009</u>
4. <u>" "</u>	<u>" "</u>	<u>"</u>	<u>.0009</u>
5. <u>" "</u>	<u>" "</u>	<u>"</u>	<u>.0003</u>
6. <u>" "</u>	<u>" "</u>	<u>"</u>	<u>.0011</u>
7. <u>" "</u>	<u>" "</u>	<u>"</u>	<u>.0009</u>
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____

*Inspection Key: PC = Pre-commencement; PR = Progress;
 PS = Pre-sealant; TD = Teardown

**Location Key: NAE = Negative Air Exhaust; DECON; OCB =
 Outside Critical Barrier

***Activity Key: PA = Pre-abatement; SU = Prep Setup; DR =
 During Removal; FC = Final Cleaning; FAC = Final Air Clearance

DAILY MONITORING DATA

DATE: 7-17-92 ESC PROJ # 91-0126C
 TECHNICIAN: J. GALLAGHER AAR #: 1980
 BUILDING: PETTIBONE
 AREA: _____

INSPECTIONS* (PC, PR, PS, TD)	WORK AREA	TIME
1.		
2.		
3.		
4.		
5.		

SAMPLE #	LOCATION**	ACTIVITY***	RESULTS (f/cc)
1. 7-17-JG-11	W.A. #8 HVAC	FAC	0.0044
2. -12	↓	↓	0.0031
3. -13			< 0.0029
4. -14			< 0.0029
5. -15			0.0037
6. -16			BLANK
7. -17	BLANK	↓	2 fib/100 flds
8.			
9.			
10.			

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***Activity Key: PA = Pre-abatement; SU = Prep Setup; DR = During Removal; FC = Final Cleaning; FAC = Final Air Clearance

DAILY MONITORING DATA

DATE: 7-17-92. ESC PROJ # 91-0126 C
 TECHNICIAN: J. GALLAGHER AAR #: 1980

BUILDING: PETTIBONE

AREA: #5, #8, #14N, #14S.

<u>INSPECTIONS* (PC, PR, PS, TD)</u>	<u>WORK AREA</u>	<u>TIME</u>
1. <u>PC/PS</u>	<u>#14 "SOUTH"</u>	<u>0800/0900</u>
2. <u>PS</u>	<u>#14 "NORTH"</u>	<u>1400</u>
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

<u>SAMPLE #</u>	<u>LOCATION**</u>	<u>ACTIVITY***</u>	<u>RESULTS (f/cc)</u>
1. <u>7-17-JG-01</u>	<u>W.A. #5 - SPEC 7'x9'</u>	<u>FAC</u>	<u><0.0024</u>
2. <u>-02</u>			<u><0.0025</u>
3. <u>-03</u>			<u><0.0023</u>
4. <u>-04</u>			<u><0.0024</u>
5. <u>-05</u>			<u>0.0032</u>
6. <u>-06</u>	<u>W.A. #14 ("SOUTH")</u>		<u><0.0039</u>
7. <u>-07</u>			<u><0.0040</u>
8. <u>-08</u>			<u><0.0039</u>
9. <u>-09</u>			<u><0.0039</u>
10. <u>-10</u>			<u><0.0040</u>

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**Location Key: NAE = Negative Air Exhaust; DECON; OCB = Outside Critical Barrier

***Activity Key: PA = Pre-abatement; SU = Prep Setup; DR = During Removal; FC = Final Cleaning; FAC = Final Air Clearance

DAILY MONITORING DATA

DATE: 7-16-92. ESC PROJ # 91-0126C
 TECHNICIAN: GALLAGHER AAR #: 1980
 BUILDING: PETT.
 AREA: _____

<u>INSPECTIONS* (PC, PR, PS, TD)</u>	<u>WORK AREA</u>	<u>TIME</u>
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

<u>SAMPLE #</u>	<u>LOCATION**</u>	<u>ACTIVITY***</u>	<u>RESULTS (f/cc)</u>
1. <u>7-16-JG-11</u>	<u>W.A.#7</u>	<u>FAC</u>	<u>0.0058</u>
2. <u>-12</u>	↓	↓	<u>0.0041</u>
3. <u>-13</u>	↓	↓	<u>0.0055</u>
4. <u>-14</u>	↓	↓	<u>0.0063</u>
5. <u>-15</u>	↓	↓	<u>0.0060</u>
6. <u>-16</u>	<u>W.A.#5 - RM 02</u>	<u>FAC</u>	<u>0.0038</u>
7. <u>-17</u>	↓	↓	<u><0.0035</u>
8. <u>-18</u>	↓	↓	<u>0.0054</u>
9. <u>-19</u>	↓	↓	<u>0.0045</u>
10. <u>↓ -20</u>	↓	↓	<u><0.0034</u>

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 **Location Key: NAE = Negative Air Exhaust; DECON; OCB = Outside Critical Barrier

***Activity Key: PA = Pre-abatement; SU = Prep Setup; DR = During Removal; FC = Final Cleaning; FAC = Final Air Clearance

DAILY MONITORING DATA

DATE: 7-16-92. ESC PROJ # 91-0126C
 TECHNICIAN: J. GALLAGHER AAR #: 1980

BUILDING: PETTIBONE

AREA: W.A. #'s 5, 7, 8, 9, 10, 14

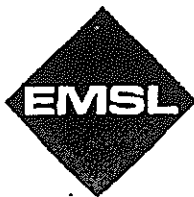
INSPECTIONS* (PC, PR, PS, TD)	WORK AREA	TIME
1. <u>PC/PS</u>	<u>#5 (7'x9' AREA IN SPEC)</u>	<u>0900/1200</u>
2. <u>PC/PS</u>	<u>#5 (3 trachus RM 02-XTRA)</u>	<u>0900/1100</u>
3. <u>PC/PS</u>	<u>#8 (HVAC)</u>	<u>1300/1600</u>
4. <u>PC</u>	<u>#14 (Fire Door Further North)</u>	<u>1630</u>
5. _____	_____	_____

SAMPLE #	LOCATION**	ACTIVITY***	RESULTS (f/cc)
1. <u>7-16-JG-01</u>	<u>W.A. #9</u>	<u>FAC</u>	<u><0.0032</u>
2. <u>-02</u>			<u><0.0032</u>
3. <u>-03</u>			<u><0.0032</u>
4. <u>-04</u>			<u><0.0033</u>
5. <u>-05</u>			<u><0.0032</u>
6. <u>-06</u>	<u>W.A. #10</u>	<u>FAC</u>	<u>0.0044</u>
7. <u>-07</u>			<u>0.0041</u>
8. <u>-08</u>			<u>0.0035</u>
9. <u>-09</u>			<u>0.0054</u>
10. <u>-10</u>			<u>0.0034</u>

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ELECTRON-MICROSCOPY SERVICE LABORATORIES INC.

Westmont, NJ Piscataway, NJ Landover, MD Atlanta, GA Melbourne, FL Ann Arbor, MI Lisle, IL San Mateo, CA
 609-858-4800 908-981-0550 301-459-8776 404-365-4048 407-725-5223 313-668-6610 708-241-1901 415-570-5401

Monday, July 20th, 1992

EnviroScience Consultants, Inc.
 252 Hartford Avenue
 Newington, CT 06111

ASBESTOS FIBER ANALYSIS by TRANSMISSION ELECTRON MICROSCOPY (TEM)
 SELECTIVE AREA ELECTRON DIFFRACTION (SAED) and ENERGY DISPERSIVE
 X-RAY MICROANALYSIS (EDX) PERFORMED by EPA 40 CFR Part 763 Final Rule.

Project : 91-0126C/PETTIBONE ELEMENTARY

AHERA SUMMARY REPORT

SAMPLE ID	VOLUME (liters)	ASBESTOS TYPE(S)	#STRUCTURES		CONCENTRATION OF ASBESTOS STRUCTURES		ANALYTICAL SENSITIVITY (AS/cc)	CONFIDENCE LIM. (AS/mm ²)
			ASB	NONASB	AS/cc	AS/mm ²		
7-15-JG-01	1520.00	Chrysotile	1	0	0.0046	18.0	0.0046	72.0
7-15-JG-02	1560.00	Chrysotile	1	0	0.0050	20.3	0.0050	81.0
7-15-JG-03	1600.00	None Detected	0	0	< 0.0049	< 20.3	0.0049	81.0
7-15-JG-04	1560.00	None Detected	0	0	< 0.0044	< 18.0	0.0044	72.0
7-15-JG-05	1600.00	Chrysotile	1	0	0.0049	20.3	0.0049	81.0

Arithmetic mean AS/mm squared(12) ≤ 70 AS/mm squared the site PASSES

NA - Not Applicable

For none detected samples number under AS/cc is equal to the analytical sensitivity.

Peter Frasca, Ph.D
 President

R.K. Maloney
 Laboratory
 Supervisor

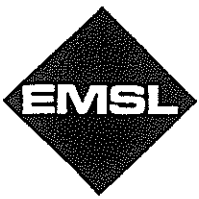
Approved
 Signatory

Disclaimers: The laboratory is only responsible for fibers counted in fibers/mm squared and not in fibers/cc, which is dependent on volume collected by nonlaboratory personnel. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All "NVLAP" reports with NVLAP logo must contain at least one signature to be valid. This report may only be reproduced in full with written approval by EMSL.

* Accredited for PLM/TEM 1048

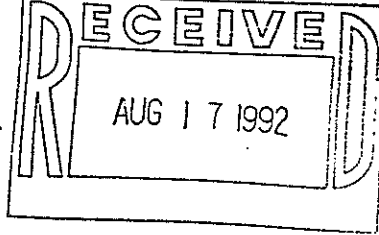
** This Sample has been selected for Quality Control.

END



ELECTRON-MICROSCOPY SERVICE LABORATORIES INC.

Westmont, NJ 609-858-4800 Piscataway, NJ 908-981-0550 Landover, MD 301-459-8776 Atlanta, GA 404-355-4046 Melbourne, FL 407-725-5223 Ann Arbor, MI 313-668-6810 Lisle, IL 708-241-1901 San Mateo, CA 415-570-5401



Tuesday, August 4th, 1992

EnviroScience Consultants, Inc.
252 Hartford Avenue
Newington, CT 06111

ASBESTOS FIBER ANALYSIS by TRANSMISSION ELECTRON MICROSCOPY (TEM)
SELECTIVE AREA ELECTRON DIFFRACTION (SAED) and ENERGY DISPERSIVE
X-RAY MICROANALYSIS (EDX) PERFORMED by EPA 40 CFR Part 763 Final Rule.

Project : 91-0126C/Pettibone School

AHERA TEM RESULTS

SAMPLE ID	VOLUME (liters)	ASBESTOS TYPE(S)	#STRUCTURES		CONCENTRATION OF ASBESTOS STRUCTURES		ANALYTICAL SENSITIVITY (AS/cc)	CONFIDENCE LIMIT (AS/mm ²)
			ASB	NONASB	AS/cc	AS/mm ²		
7-27-JH-4	1600.00	None Detected	0	0	< 0.0048	< 19.7	0.0048	79.0
7-27-JH-5	1560.00	None Detected	0	5	< 0.0049	< 19.7	0.0049	79.0
7-27-JH-6	1560.00	None Detected	0	6	< 0.0049	< 19.7	0.0049	79.0
7-27-JH-7	1600.00	None Detected	0	2	< 0.0048	< 19.7	0.0048	79.0
7-27-JH-8	1600.00	None Detected	0	1	< 0.0048	< 19.7	0.0048	79.0

Arithmetic mean AS/mm squared(0) ≤ 70 AS/mm squared the site PASSES

NA - Not Applicable

For none detected samples number under AS/cc is equal to the analytical sensitivity.

Peter Frasca, Ph.D
President

R.K. Maloney
Laboratory
Supervisor

Approved
Signatory

Disclaimers: The laboratory is only responsible for fibers counted in fibers/mm squared and not in fibers/cc, which is dependent on volume collected by nonlaboratory personnel. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. All "NVLAP" reports with NVLAP logo must contain at least one signature to be valid. This report may only be reproduced in full with written approval by EMSL.

* Accredited for PLM/TEM 1048

** This Sample has been selected for Quality Control.

TOWN/REGION NAME	FACILITY NAME AND ADDRESS	DATE OF AMP UPDATE
New Milford	Pettibone Elementary School, 2 Picet District Road	10/8/92

General Instructions

Provide the name of the school district where the facility is located as well as the name and address of the facility. Also indicate the date on which the AMP Update is submitted.

Please number the pages of each Schedule B being submitted in the upper right hand corner.

1. Asbestos Containing Area Throughout School

2. Material(s)

Type <u>AC Pipe Insulation</u>	Amount <u>1,500 Lin.ft.</u>
Type <u>AC Pipe fittings</u>	Amount <u>55 fittings.</u>
Type <u>AC Floor tile and Mastic</u>	Amount <u>2,242 sq.ft.</u>
Type <u>Transite Panels</u>	Amount <u>1,260 sq.ft.</u>
Type _____	Amount _____
Type _____	Amount _____

3. Name and Address of Abatement Contractor

Talco Asbestos Removal, Inc.
1255 Wilbur Cross Parkway
Berlin, CT 06037

4. Name and Address of School District Project Coordinator

Dr. Stephen C. Tracy - Superintendent
50 East Street
New Milford, CT 06776

5. Name and Address of Air Sampling Professional

Enviro Science Consultants, Inc.
252 Hartford Avenue
Newington, CT 06111

6. Air Sampling Clearance Results

Attached No Clearance Air Samples Collected

7. Date of Project Start July 6, 1992

8. Date of Project Completion July 27, 1992

ASBESTOS ABATEMENT PROJECT MONITORING

Pettibone Elementary School
2 Pickett District Road
New Milford, Connecticut

INTRODUCTION:

EnviroScience Consultants, Inc., (ESC), was retained to provide asbestos abatement project monitoring services at the Pettibone Elementary School. Asbestos abatement was necessary due to code update renovations.

Project specifications and bid documents were prepared by EnviroScience Consultants, Inc. The Construction Management Team on site was O & G Industries of Torrington, Connecticut. The asbestos abatement contractor was Talco Asbestos Removal Inc., of Berlin, CT.

Prior to the commencement of abatement activities, preabatement air samples were collected by ESC. Preabatement samples establish the ambient, or existing, airborne fiber concentrations prior to the start of any abatement actions. Upon commencement of abatement activities, background air samples were collected. These background samples were collected at various locations such as the entrance to the worker decontamination facility, outside critical barriers, and at the negative air exhaust. These samples were collected and analyzed in order to monitor the air quality outside the containment during the abatement process. Comparisons were then made between preabatement samples and background samples. This was done in order to assess the air quality at the work site during the abatement project. Following the completion of final cleaning and encapsulation of the work area, aggressive final air clearance sampling was performed inside the work area to comply with state and federal regulatory requirements.

In addition to air sampling, ESC's Environmental Technicians James Gallagher, Robert Quinn and Jason Krantz performed job site inspections. Prior to the beginning of removal activities, a precommencement inspection was conducted. This was to document that work area preparations were performed in accordance with the written technical specifications. During removal activities, progress inspections were conducted inside the work area to assess work progress and work procedures for adherence to contract specifications. Presealant inspections were also conducted to verify that the work area met the non-visible dust criteria prior to conducting final air clearance. A post-teardown inspection was also performed to ensure that all ACM was removed.