Limited Asbestos Inspection Report

Peebles Elementary School
70 Trowbridge Road
Bourne, Massachusetts

Bourne Public Schools

Bourne, Massachusetts

August 11, 2009

FUSS & O'NEILL
Disciplines to Deliver

Fuss & O'Neill EnviroScience, LLC
50 Redfield Street, Suite 100
Boston, MA 02122

Project No. 20070914.A4E

FUSS & O'NEILL
EnviroScience, LLC

Disciplines to Deliver

August 11, 2009

Mr. Peter Simpson
Director of Business Services
Bourne Public Schools
36 Sandwich Road
Bourne, MA 02532

RE: Limited Asbestos Inspection Services
Peebles Elementary School
70 Trowbridge Road, Bourne, Massachusetts
Fuss & O'Neill EnviroScience, LLC No. 20070914.A4E

Dear Mr. Simpson:

Enclosed is the report for the limited inspection for asbestos or suspect asbestos containing materials conducted at the Peebles Elementary School located at 70 Trowbridge Road in Bourne, Massachusetts. The services were performed on July 10, 2009 by a Fuss & O'Neill EnviroScience, LLC licensed inspector.

If you have any questions regarding the contents of this report, please do not hesitate to contact Bob May at (617) 282-4675, extension 4701. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Robert L. May, Jr.
Vice President

Stephen W. Connelly
Senior Vice President

RLM:adw
Enclosure

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Peebles Elementary School
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1. Introduction

On July 20, 2009, a Fuss and O' Neill EnviroScience, LLC (EnviroScience) representative, Jonathan Hand, performed a limited inspection and sampling for asbestos containing materials (ACM) at the Peebles Elementary School located at 70 Trowbridge Road in Bourne, Massachusetts. The inspection was performed for the Bourne Public Schools which is the Local Education Agency (LEA) responsible for compliance with federal and state regulations regarding asbestos in school buildings. Mr. Hand is a licensed asbestos inspector in the Commonwealth of Massachusetts. Refer to *Appendix A* for licensing documentation.

This inspection was performed in response to recommendation from EnviroScience to the LEA that previously unidentified materials or currently presumed asbestos containing materials, included in management plans required by the U.S. Environmental Protection Agency (USEPA), Asbestos Hazard Emergency Response Act (AHERA), be sampled to determine asbestos content.

No destructive investigation for concealed materials was performed. The results of this inspection and sampling is intended to assist Bourne Public Schools with the operations and maintenance requirements in compliance with USEPA, AHERA requirements for visible and accessible ACM within the school building. The results of this testing shall be utilized to update the existing management plan for the school building. The inspection and sampling was performed for only the materials listed herein which were either previously not identified or included in the management plan of if included listed as Presumed Asbestos Containing Materials (PACM).

The results of this limited inspection and sampling do not meet the requirements of an inspection prior to renovation or demolition as required by the USEPA, National Emission Standards for Hazardous Air Pollutants (NESHAP). A NESHAP inspection would be required if planned renovation or demolition is planned associated with the school building.

The results of the inspection and sampling are summarized below.

2. Asbestos Inspection

2.1 Introduction

Fuss and O'Neill EnviroScience, LLC sampled visible and accessible suspect ACM. Materials that were sampled are analyzed by Polarized Light Microscopy (PLM). Locations, material type, sample identification, and asbestos content of ACM identified by bulk sample analysis are given in Table 1 of the Results section. Materials determined to be non-asbestos containing are included in Table 2 of the Results section.

The Inspector collected samples of suspect asbestos containing materials in accordance with USEPA recommendations and AHERA protocols. The protocols included the following:

1. Surfacing Materials (such as plaster, spray-on fireproofing, etc.) were collected in a randomly distributed manner representing each homogenous area based on the overall quantity represented by the sampling as follows:

    a. Three (3) samples were collected from each homogenous area that is less than or equal to 1,000 square feet.
    b. Five (5) samples were collected from each homogenous area that is greater than 1,000 square feet but less than or equal to 5,000 square feet.
    c. Seven (7) samples were collected from each homogenous area that is greater than 5,000 square feet.

2. Thermal System Insulation (such as pipe insulation, tank insulation, etc.) was collected in a randomly distributed manner representing each homogenous area. Three (3) samples were collected from each material. Also, a minimum of one (1) sample of any patching materials applied to TSI presuming the patched area is less than 6 linear or square feet was also collected.

3. Miscellaneous Materials (such as floor tile, construction mastics, etc.) had a minimum of one (1) sample of each homogenous material type. Sampling was conducted in a manner sufficient to determine asbestos content of the homogenous material. In some instances, more than a single sample was collected of miscellaneous materials based on the judgment of the inspector.

Inspector(s) collected samples and prepared proper chain-of-custody forms for transmission of samples to an accredited laboratory for analysis by PLM.

2.2 Results

Utilizing the USEPA protocol and criteria the following Table 1 identifies materials determined to be ACM (Asbestos 1% or greater):

TABLE 1
ASBESTOS-CONTAINING MATERIALS (ACM)

SAMPLE LOCATION	MATERIAL TYPE	SAMPLE NO.	ASBESTOS CONTENT
Attic	Vibration Isolator	720JH-04B	60% Chrysotile
Office Near Room 9	Pre-Formed Block Type Pipe Insulation	720JH-05A	5% Chrysotile 15% Amosite 6% Crocidolite
Throughout School	Air-Cell Pipe Insulation	720JH-06A	70% Chrysotile
Throughout School	Mudded Insulation on Pipe Fittings	720JH-07A	5% Chrysotile 15% Amosite 12% Crocidolite
Classrooms	Ceiling Plaster Skim Coat	720JH-30A	3% Chrysotile

Utilizing the USEPA protocol and criteria the following Table 2 identifies materials determined to be **non-ACM**:

TABLE 2
NON-ASBESTOS CONTAINING MATERIALS

SAMPLE LOCATION	MATERIAL TYPE	SAMPLE NO.
Boiler Room	Hot Water Tank Insulation	720JH-01 A-C
Boiler Room	Boiler Breeching	720JH-02 A-C
Boiler Room	Boiler Insulation	720JH-03 A-C
Boiler Room	Vibration Isolator	720JH-04A
Throughout School	Black Cove Base	720JH-08 A-C
Throughout School	Black Mastic a/w Black Cove Base	720JH-09 A-C
Classrooms	Vinyl Window Sill	720JH-10 A-C
Throughout Old Building	1x1 Pin Hole Ceiling Tiles	720JH-11 A-C
Throughout Old Building	Dark Brown Mastic a/w 1x1 Pin Hole Ceiling Tiles	720JH-12 A-C
Throughout School	Black Mastic a/w 9x9 Floor Tile	720JH-13 A-C
Throughout School	Black Mastic a/w 12x12 Floor Tile	720JH-14 A-C
Classrooms 1, 2, &3	Blue/Grey w/ White Streaks 12x12 Floor Tile	720JH-15 A-C
Classroom 6	White/ Yellow/ Brown 12x12 Floor Tile	720JH-16 A-C
Classrooms 1, 2, & 3	Tan w/ White Streaks 12x12 Floor Tile	720JH-17 A-C
Classroom 8	White w/ Brown and Blue Streaks 12x12 Floor Tile	720JH-18 A-C
Classroom 4	Red w/ Pink Streaks 12x12 Floor Tile	720JH-19 A-C
Classroom 4	Brown w/ Light Brown and Dark Brown Streaks 12x12 Floor Tile	720JH-20 A-C
Classroom 9, 10, & 12	Grey w/ Brown Streaks 12x12 Floor Tile	720JH-21 A-C
Breezeway Between Classrooms 10 & 11	Tan w/ Brown Streaks 12x12 Floor Tile	720JH-22 A-C
Classroom 12	Tan w/ Pink and Brown Streaks 12x12 Floor Tile	720JH-23 A-C
Classroom 11	Tan w/ Brown and White Streaks 12x12 Floor Tile	720JH-24 A-C
Classroom 11	Brown w/ Brown and White Streaks 12x12 Floor Tile	720JH-25 A-C
Classroom 9	Tan w/ Brown Streaks 12x12 Floor Tile	720JH-26 A-C
Throughout School	Plaster Wall Rough Coat	720JH-27 A-G
Throughout School	Plaster Wall Skim Coat	720JH-28 A-G
Throughout Classrooms	Plaster Ceiling Rough Coat	720JH-29 A-G

The results of laboratory analysis summarized above are located in *Appendix B.*

2.3 Discussion

The USEPA, Occupational Safety and Health Administration (OSHA), and the Commonwealth of Massachusetts Division of Occupational Safety (DOS) defines any material that contains greater than one percent (>1%) asbestos, utilizing PLM, as being an ACM. The Commonwealth of Massachusetts Department of Environmental Protection (DEP) defines any

material that contain equal to or greater than one percent (1%) asbestos as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos. Friable materials that are identified as containing less than ten percent (<10%) asbestos, are recommended to be analyzed further utilizing the EPA 400 point-counting technique to verify asbestos content by the USEPA. A property owner may elect to presume the results are asbestos containing based on the initial PLM results without the additional analysis by the EPA 400 point-counting technique. None of the materials were determined to contain asbestos by PLM with less than ten percent (<10%) asbestos, with the exception of plaster skim coat on ceilings within classrooms, and none require further analysis by the EPA 400 point-counting technique. We recommend that the PLM result be assumed to contain 1% asbestos or greater with no further analysis for ceiling plaster. This recommendation is due to the position of MADEP which does not recognize the use of EPA 400 Point Count to refute an initial PLM result that is 1% asbestos or greater.

Additionally, the USEPA has suggested that materials that are non-friable organically bound materials such as mastic adhesives, etc are recommended for further confirmatory analysis utilizing Transmission Electron Microscopy (TEM) prior to disturbance in renovation or demolition. None of the collected samples were analyzed by TEM.

2.4 Conclusion

The materials determined to contain asbestos will continue to be included in the schools AHERA Management Plan. Materials sampled and determined to be non-asbestos will be removed from the AHERA Management Plan. Damaged asbestos containing materials should be repaired or removed by a licensed Asbestos Abatement Contractor and in accordance with the Commonwealth of Massachusetts, DLWD, DOS, DEP and USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) standards for asbestos abatement.

The results of this inspection must be maintained by the LEA as part of the permanent AHERA records maintained for the school building a copy of which should be both at the school building as well as central office of the LEA.

Report prepared by Environmental Technician I, Jonathan L. Hand.

Reviewed by:

Robert L. May, Jr.
Vice President

Stephen W. Connelly
Senior Vice President

RLM/adw

FUSS & O'NEILL
EnviroScience, LLC

Appendix A

Inspector's Licenses

Commonwealth of Massachusetts

Division of Occupational Safety

Laura M. Marlin, Commissioner

Asbestos Inspector

JONATHAN L. HAND

Eff. Date 03/19/09

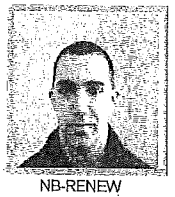
Exp. Date 03/18/10

AI041945

Member of C.O.N.E.S.

NB

10



NB-RENEW

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive, Wilmington, MA 01887
(Phone) 978.658.5272

IEE IEE

This is to certify that
Jonathan Hand

has completed the requisite training, and has passed an examination for reaccreditation as:

Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

January 26, 2009
Course Dates

Course Location
Institute for Environmental Education
16 Upton Drive
Wilmington, MA 01887

January 26, 2009
Examination Date

January 26, 2010
Expiration Date

09-3975-106-238580
Certificate Number

Training Director

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jonathan Hand

has successfully completed the

24 Hour Asbestos Site Inspector Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

Official record of successful completion of this Course is the DOH2832 Certificate issued on January 9, 2008.

ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Edward Kabjian

Principal Instructor

January 7-9, 2008
Date of Course

January 9, 2009
Expiration Date

Gregory J. Marsch

Regional Manager

SI-1359
Certificate Number

January 9, 2008
Examination Date

FUSS & O'NEILL
EnviroScience, LLC

Appendix B

Asbestos Sample Results and Chains of Custody

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

Attn: **Bob May**
Fuss & O' Neill EnviroScience, LLC
50 Redfield Street
Boston, MA 02122

Fax: (413) 647-0018 Phone: (617) 282-4675
Project: **20070914.A4E/ BOURNE PUBLIC SCHOOLS/ PEEBLES ELEMATARY**

Customer ID: ENVI54C
Customer PO:
Received: 07/24/09 9:00 AM
EMSL Order: 030918779

EMSL Proj:
Analysis Date: 7/25/2009

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

			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
720JH-01A *030918779-0001*	BOILER ROOM/ HOT WATER TANK INSULATION	Tan Fibrous Heterogeneous	15% 5%	Glass Synthetic	40% 40%	Ca Carbonate Non-fibrous (other)	**None Detected**
720JH-01B *030918779-0002*	BOILER ROOM/ HOT WATER TANK INSULATION	Tan/White Fibrous Heterogeneous	20% 5%	Glass Synthetic	40% 35%	Ca Carbonate Non-fibrous (other)	**None Detected**
720JH-01C *030918779-0003*	BOILER ROOM/ HOT WATER TANK INSULATION	Tan Fibrous Heterogeneous	15% 5%	Glass Synthetic	40% 40%	Ca Carbonate Non-fibrous (other)	**None Detected**
720JH-02A *030918779-0004*	BOILER ROOM/ BOILER BREACHING BOILER INSULATION #2	White/Blue Fibrous Heterogeneous	10% 20%	Glass Synthetic	50% 20%	Ca Carbonate Non-fibrous (other)	**None Detected**
720JH-02B *030918779-0005*	BOILER ROOM/ BOILER BREACHING BOILER INSULATION #1	Gray/White Fibrous Heterogeneous	5% 25%	Glass Synthetic	50% 20%	Ca Carbonate Non-fibrous (other)	**None Detected**

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
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Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
720JH-02C *030918779-0006*	BOILER ROOM/ BOILER BREACHING BOILER INSULATION #1	Tan/Blue Fibrous Heterogeneous	15% Glass 15% Synthetic		50% Ca Carbonate 20% Non-fibrous (other)	**None Detected**
720JH-03A *030918779-0007*	BOILER ROOM/ BOILER INSULATION BOILER #2	Gray Fibrous Heterogeneous	25% Glass		40% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
720JH-03B *030918779-0008*	BOILER ROOM/ BOILER INSULATION BOILER #1	Gray Fibrous Heterogeneous	35% Glass		40% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
720JH-03C *030918779-0009*	BOILER ROOM/ BOILER INSULATION BOILER #1	Gray Fibrous Heterogeneous	15% Glass		35% Ca Carbonate 50% Non-fibrous (other)	**None Detected**
720JH-04A *030918779-0010*	BOILER ROOM/ VIBRATION ISOLATOR	Gray/White Fibrous Heterogeneous	95% Glass		5% Non-fibrous (other)	**None Detected**
720JH-04B *030918779-0011*	ATTIC/ VIBRATION ISOLATOR	Tan/White Fibrous Heterogeneous	25% Cellulose		15% Non-fibrous (other)	**60% Chrysotile**

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
720JH-05A *030918779-0012*	OFFICE NEAR ROOM 9/ PREFOUND B DOCK TYPE PIPE	White Fibrous Heterogeneous		50% Ca Carbonate 24% Non-fibrous (other)	**15% Amosite** **5% Chrysotile** **6% Crocidolite**
720JH-05B *030918779-0013*	OFFICE NEAR ROOM 9/ PREFOUND B DOCK TYPE PIPE				**Stop Positive (Not Analyzed)**
720JH-05C *030918779-0014*	OFFICE NEAR ROOM 9/ PREFOUND B DOCK TYPE PIPE				**Stop Positive (Not Analyzed)**
720JH-06A *030918779-0015*	STORAGE NEAR ROOM 13/ AIRCELL PIPE INSULATION	White Fibrous Homogeneous	20% Cellulose	10% Non-fibrous (other)	**70% Chrysotile**
720JH-06B *030918779-0016*	CHASE NEAR ROOM 7 (CUSTODIAN)/ AIRCELL PIPE				**Stop Positive (Not Analyzed)**
720JH-06C *030918779-0017*	STAGE/ AIRCELL PIPE INSULATION				**Stop Positive (Not Analyzed)**

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
720JH-07A *030918779-0018*	STORAGE NEAR ROOM 13/ MUDDED FITTINGS	White Fibrous Homogeneous		50% Ca Carbonate 18% Non-fibrous (other)	**15% Amosite** **5% Chrysotile** **12% Crocidolite**
720JH-07B *030918779-0019*	STORAGE NEAR ROOM 13/ MUDDED FITTINGS				**Stop Positive (Not Analyzed)**
720JH-07C *030918779-0020*	STAGE/ MUDDED FITTINGS				**Stop Positive (Not Analyzed)**
720JH-08A *030918779-0021*	ROOM 10/ BLACK COVE BASE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
720JH-08B *030918779-0022*	ROOM 8/ BLACK COVE BASE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
720JH-08C *030918779-0023*	ROOM 5/ BLACK COVE BASE	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
720JH-09A *030918779-0024*	ROOM 10/ BLACK MASTIC A/W BLACK COVE BASE	White/Black Non-Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**

Analyst(s)

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

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
720JH-09B *030918779-0025*	ROOM 8/ BLACK MASTIC A/W BLACK COVE BASE	Black Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
720JH-09C *030918779-0026*	ROOM 5/ BLACK MASTIC A/W BLACK COVE BASE	Black Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
720JH-10A *030918779-0027*	ROOM 4/ VINYL WINDOW SILL	Gray/Tan Non-Fibrous Heterogeneous	20%	Cellulose	15% Ca Carbonate 65% Non-fibrous (other)	**None Detected**
720JH-10B *030918779-0028*	ROOM 10/ VINYL WINDOW SILL	Brown/Gray Non-Fibrous Heterogeneous	25%	Cellulose	10% Ca Carbonate 65% Non-fibrous (other)	**None Detected**
720JH-10C *030918779-0029*	ROOM 12/ VINYL WINDOW SILL	Brown/Gray Non-Fibrous Heterogeneous	20%	Cellulose	10% Ca Carbonate 70% Non-fibrous (other)	**None Detected**
720JH-11A *030918779-0030*	LOOSE IN ATTIC/ 1X1 CEILING TILE PIN HOLE	Brown/White Fibrous Heterogeneous	85%	Cellulose	15% Non-fibrous (other)	**None Detected**
720JH-11B *030918779-0031*	LOOSE IN ATTIC/ 1X1 CEILING TILE PIN HOLE	Brown/White Fibrous Heterogeneous	85%	Cellulose	15% Non-fibrous (other)	**None Detected**

Analyst(s)

Williams John (111)

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			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
720JH-11C *030918779-0032*	LOOSE IN ATTIC/ 1X1 CEILING TILE PIN HOLE	Brown/White Fibrous Heterogeneous	85%	Cellulose	15% Non-fibrous (other)	**None Detected**
720JH-12A *030918779-0033*	LOOSE IN ATTIC/ DARK BROWN MASTIC A/W 1X1 CEILING	Brown Non-Fibrous Heterogeneous	5%	Cellulose	95% Non-fibrous (other)	**None Detected**
720JH-12B *030918779-0034*	LOOSE IN ATTIC/ DARK BROWN MASTIC A/W 1X1 CEILING	Brown Non-Fibrous Heterogeneous	3%	Cellulose	97% Non-fibrous (other)	**None Detected**
720JH-12C *030918779-0035*	LOOSE IN ATTIC/ DARK BROWN MASTIC A/W 1X1 CEILING	Brown Non-Fibrous Heterogeneous	5%	Cellulose	95% Non-fibrous (other)	**None Detected**
720JH-13A *030918779-0036*	ROOM 22/ BLACK MASTIC A/W 9X9 FT	Black Non-Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-13B *030918779-0037*	MAIN LOBBY/ BLACK MASTIC A/W 9X9 FT	Black Non-Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	**None Detected**

Analyst(s)
Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

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307 West 38th Street, New York, NY 10018
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Attn: **Bob May**
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Project: **20070914.A4E/ BOURNE PUBLIC SCHOOLS/ PEEBLES ELEMATARY**

Customer ID: ENVI54C
Customer PO:
Received: 07/24/09 9:00 AM
EMSL Order: 030918779

EMSL Proj:
Analysis Date: 7/25/2009

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

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
720JH-13C *030918779-0038*	GROUND FLOOR HALL/ BLACK MASTIC A/W 9X9 FT	Black Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**
720JH-14A *030918779-0039*	ROOM 9/ BLACK MASTIC A/W 12X12 FT	Black Non-Fibrous Heterogeneous	3%	Cellulose	97% Non-fibrous (other)	**None Detected**
720JH-14B *030918779-0040*	ROOM 12/ BLACK MASTIC A/W 12X12 FT	Black Non-Fibrous Heterogeneous	2%	Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-14C *030918779-0041*	BREEZEWAY BETWEEN ROOM 10 & 11 / BLACK MASTIC A/W	Brown/Black Non-Fibrous Heterogeneous	15%	Cellulose	85% Non-fibrous (other)	**None Detected**
720JH-15A *030918779-0042*	ROOM 1/ BLUE/GREY W/ WHITE STREAKS 12X12	Gray/White Non-Fibrous Heterogeneous			20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC			
720JH-15B *030918779-0043*	ROOM 2/ BLUE/GREY W/ WHITE STREAKS 12X12	Gray/White Non-Fibrous Heterogeneous			20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC			

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-15C *030918779-0044*	ROOM 3/ BLUE/GREY W/ WHITE STREAKS 12X12	Gray/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
		INSUFFICENT MASTIC			
720JH-16A *030918779-0045*	ROOM 6/ WHITE/YELLOW/ BORWN 12X12 FT	Beige Non-Fibrous Heterogeneous		85% Non-fibrous (other) 15% Quartz	**None Detected**
		INSUFFICENT MASTIC			
720JH-16B TILE *030918779-0046*	ROOM 6/ WHITE/YELLOW/ BORWN 12X12 FT	Beige Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Quartz	**None Detected**
720JH-16B MASTIC *030918779-0046A*	ROOM 6/ WHITE/YELLOW/ BORWN 12X12 FT	Brown Non-Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (other)	**None Detected**
720JH-16C TILE *030918779-0047*	ROOM 6/ WHITE/YELLOW/ BORWN 12X12 FT	Beige Non-Fibrous Heterogeneous		85% Non-fibrous (other) 15% Quartz	**None Detected**
720JH-16C MASTIC *030918779-0047A*	ROOM 6/ WHITE/YELLOW/ BORWN 12X12 FT	Brown Non-Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-17A TILE *030918779-0048*	ROOM 1/ TAN W/ WITE STREAKS 12X12 FT	Gray/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-17A MASTIC *030918779-0048A*	ROOM 1/ TAN W/ WITE STREAKS 12X12 FT	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-17B TILE *030918779-0049*	ROOM 2/ TAN W/ WITE STREAKS 12X12 FT	Gray/White Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (other)	**None Detected**
720JH-17B MASTIC *030918779-0049A*	ROOM 2/ TAN W/ WITE STREAKS 12X12 FT	Black Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	**None Detected**
720JH-17C TILE *030918779-0050*	ROOM 3/ TAN W/ WITE STREAKS 12X12 FT	Gray/White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-17C MASTIC *030918779-0050A*	ROOM 3/ TAN W/ WITE STREAKS 12X12 FT	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-18A *030918779-0051*	ROOM 8/ WHITE W/ BROWN & BLUE STREAKS 12X12 FT	Gray/White Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Quartz	**None Detected**
			INSUFFICENT MASTIC		

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-18B *030918779-0052*	ROOM 8/ WHITE W/ BROWN & BLUE STREAKS 12X12 FT	Gray/White Non-Fibrous Heterogeneous		90% Non-fibrous (other) 10% Quartz	**None Detected**
			INSUFFICENT MASTIC		
720JH-18C *030918779-0053*	ROOM 8/ WHITE W/ BROWN & BLUE STREAKS 12X12 FT	Gray/White Non-Fibrous Heterogeneous		85% Non-fibrous (other) 15% Quartz	**None Detected**
			INSUFFICENT MASTIC		
720JH-19A *030918779-0054*	ROOM 4/ RED W/ PINK STREAKS 12X12 FT	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		
720JH-19B *030918779-0055*	ROOM 4/ RED W/ PINK STREAKS 12X12 FT	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		
720JH-19C *030918779-0056*	ROOM 4/ RED W/ PINK STREAKS 12X12 FT	Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		

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

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
720JH-20A TILE *030918779-0057*	ROOM 4/ BROWN W/ LT BROWN & DARK BROWN STREAKS	Gold Non-Fibrous Homogeneous			15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-20A MASTIC *030918779-0057A*	ROOM 4/ BROWN W/ LT BROWN & DARK BROWN STREAKS	Black Non-Fibrous Homogeneous	2%	Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-20B TILE *030918779-0058*	ROOM 4/ BROWN W/ LT BROWN & DARK BROWN STREAKS	Gold Non-Fibrous Homogeneous			15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-20B MASTIC *030918779-0058A*	ROOM 4/ BROWN W/ LT BROWN & DARK BROWN STREAKS	Black Non-Fibrous Homogeneous	<1%	Cellulose	100% Non-fibrous (other)	**None Detected**
720JH-20C TILE *030918779-0059*	ROOM 4/ BROWN W/ LT BROWN & DARK BROWN STREAKS	Gold Non-Fibrous Homogeneous			15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-20C MASTIC *030918779-0059A*	ROOM 4/ BROWN W/ LT BROWN & DARK BROWN STREAKS	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-21A *030918779-0060*	ROOM 9/ GREY W/ BROWN STREAKS 12X12 FT	Black Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		
720JH-21B *030918779-0061*	ROOM 10/ GREY W/ BROWN STREAKS 12X12 FT	Black Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		
720JH-21C *030918779-0062*	ROOM 12/ GREY W/ BROWN STREAKS 12X12 FT	Black Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		
720JH-22A TILE *030918779-0063*	BREEZEWAY BETWEEN ROOM 10 & 11/ TAN W/ BROWN	Tan Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
720JH-22A MASTIC *030918779-0063A*	BREEZEWAY BETWEEN ROOM 10 & 11/ TAN W/ BROWN	Brown Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	**None Detected**
720JH-22B TILE *030918779-0064*	BREEZEWAY BETWEEN ROOM 10 & 11/ TAN W/ BROWN	Tan Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-22B MASTIC *030918779-0064A*	BREEZEWAY BETWEEN ROOM 10 & 11/ TAN W/ BROWN	Brown Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-22C TILE *030918779-0065*	BREEZEWAY BETWEEN ROOM 10 & 11/ TAN W/ BROWN	Tan Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-22C MASTIC *030918779-0065A*	BREEZEWAY BETWEEN ROOM 10 & 11/ TAN W/ BROWN	Brown Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-23A TILE *030918779-0066*	ROOM 12/ TAN W/ PINK & BROWN STREAK 12X12 FT	Tan Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-23A MASTIC *030918779-0066A*	ROOM 12/ TAN W/ PINK & BROWN STREAK 12X12 FT	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-23B TILE *030918779-0067*	ROOM 12/ TAN W/ PINK & BROWN STREAK 12X12 FT	Tan Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-23B MASTIC *030918779-0067A*	ROOM 12/ TAN W/ PINK & BROWN STREAK 12X12 FT	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	**None Detected**
720JH-23C TILE *030918779-0068*	ROOM 12/ TAN W/ PINK & BROWN STREAK 12X12 FT	Brown Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
720JH-23C MASTIC *030918779-0068A*	ROOM 12/ TAN W/ PINK & BROWN STREAK 12X12 FT	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (other)	**None Detected**
720JH-24A TILE *030918779-0069*	ROOM 11/ TAN W/ BROWN & WHITE STREAKS 12X12 FT	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
720JH-24A MASTIC *030918779-0069A*	ROOM 11/ TAN W/ BROWN & WHITE STREAKS 12X12 FT	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	**None Detected**
720JH-24B *030918779-0070*	ROOM 11/ TAN W/ BROWN & WHITE STREAKS 12X12 FT	Beige Non-Fibrous Heterogeneous	2% Cellulose	10% Ca Carbonate 88% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		
720JH-24C *030918779-0071*	ROOM 11/ TAN W/ BROWN & WHITE STREAKS 12X12 FT	Beige Non-Fibrous Heterogeneous	3% Cellulose	15% Ca Carbonate 82% Non-fibrous (other)	**None Detected**
			INSUFFICENT MASTIC		
720JH-25A TILE *030918779-0072*	ROOM 11/ BROWN W/ BROWN & WHITE STREAKS 12X12 FT	Brown Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	**None Detected**

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
720JH-25A MASTIC *030918779-0072A*	ROOM 11/ BROWN W/ BROWN & WHITE STREAKS 12X12 FT	Brown Non-Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (other)	**None Detected**
720JH-25B *030918779-0073*	ROOM 11/ BROWN W/ BROWN & WHITE STREAKS 12X12 FT	Brown Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (other)	**None Detected**
		INSUFFICENT MASTIC			
720JH-25C *030918779-0074*	ROOM 11/ BROWN W/ BROWN & WHITE STREAKS 12X12 FT	Brown Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**
		INSUFFICENT MASTIC			
720JH-26A TILE *030918779-0075*	ROOM 9/ TAN W/ BROWN STREAKS 12X12 FT	Tan Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (other)	**None Detected**

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Sample	Description	Appearance	Non-Asbestos %	Fibrous	Non-Asbestos %	Non-Fibrous	Asbestos % Type
720JH-26A MASTIC *030918779-0075A*	ROOM 9/ TAN W/ BROWN STREAKS 12X12 FT	Black Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	None Detected
720JH-26B TILE *030918779-0076*	ROOM 9/ TAN W/ BROWN STREAKS 12X12 FT	Tan Non-Fibrous Heterogeneous			20%	Ca Carbonate	None Detected
					80%	Non-fibrous (other)	
720JH-26B MASTIC *030918779-0076A*	ROOM 9/ TAN W/ BROWN STREAKS 12X12 FT	Black Non-Fibrous Homogeneous	2%	Cellulose	98%	Non-fibrous (other)	None Detected
720JH-26C TILE *030918779-0077*	ROOM 9/ TAN W/ BROWN STREAKS 12X12 FT	Tan Non-Fibrous Heterogeneous			15%	Ca Carbonate	None Detected
					85%	Non-fibrous (other)	
720JH-26C MASTIC *030918779-0077A*	ROOM 9/ TAN W/ BROWN STREAKS 12X12 FT	Black Non-Fibrous Homogeneous	2%	Cellulose	98%	Non-fibrous (other)	None Detected
720JH-27A *030918779-0078*	STAIRWELL NEAR 12/ PLASTER WALL ROUGH	Gray Non-Fibrous Heterogeneous			30%	Gypsum	None Detected
					35%	Non-fibrous (other)	
					35%	Quartz	

Analyst(s)
Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

Attn: **Bob May**
Fuss & O' Neill EnviroScience, LLC
50 Redfield Street
Boston, MA 02122

Fax: (413) 647-0018 Phone: (617) 282-4675
Project: **20070914.A4E/ BOURNE PUBLIC SCHOOLS/ PEEBLES ELEMATARY**

Customer ID: ENVI54C
Customer PO:
Received: 07/24/09 9:00 AM
EMSL Order: 030918779
EMSL Proj:
Analysis Date: 7/25/2009

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-27B *030918779-0079*	ROOM 1/ PLASTER WALL ROUGH	Gray Non-Fibrous Heterogeneous		20% Gypsum 35% Non-fibrous (other) 45% Quartz	**None Detected**
720JH-27C *030918779-0080*	OUTSIDE BOILER ROOM/ PLASTER WALL ROUGH	Gray Non-Fibrous Heterogeneous	3% Cellulose	20% Gypsum 37% Non-fibrous (other) 40% Quartz	**None Detected**
720JH-27D *030918779-0081*	ATTIC/ PLASTER WALL ROUGH	Gray Non-Fibrous Heterogeneous	2% Cellulose	20% Gypsum 45% Mica 33% Non-fibrous (other)	**None Detected**
720JH-27E *030918779-0082*	ATTIC/ PLASTER WALL ROUGH	Gray Non-Fibrous Heterogeneous	3% Cellulose	15% Gypsum 37% Non-fibrous (other) 45% Quartz	**None Detected**
720JH-27F *030918779-0083*	ROOM 10/ PLASTER WALL ROUGH	Gray Non-Fibrous Heterogeneous	<1% Cellulose	15% Gypsum 40% Non-fibrous (other) 45% Quartz	**None Detected**
720JH-27G *030918779-0084*	COSTODIAL CLOSET NEAR ROOM 7/ PLASTER WALL ROUGH	Gray Non-Fibrous Heterogeneous	2% Cellulose	15% Gypsum 43% Non-fibrous (other) 40% Quartz	**None Detected**

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

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Attn: **Bob May**
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Boston, MA 02122

Fax: (413) 647-0018 Phone: (617) 282-4675

Project: **20070914.A4E/ BOURNE PUBLIC SCHOOLS/ PEEBLES ELEMATARY**

Customer ID: ENVI54C
Customer PO:
Received: 07/24/09 9:00 AM
EMSL Order: 030918779

EMSL Proj:
Analysis Date: 7/25/2009

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

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
720JH-28A *030918779-0085*	STAIRWELL NEAR 12/ PLASTER WALL SKIM	White/Green Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	**None Detected**
720JH-28B *030918779-0086*	ROOM 11/ PLASTER WALL SKIM	White Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	**None Detected**
720JH-28C *030918779-0087*	OUTSIDE BOILER ROOM/ PLASTER WALL SKIM	White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	**None Detected**
720JH-28D *030918779-0088*	ATTIC/ PLASTER WALL SKIM	White/Green Non-Fibrous Heterogeneous		65% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
720JH-28E *030918779-0089*	ATTIC/ PLASTER WALL SKIM	White/Green Non-Fibrous Heterogeneous		65% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
720JH-28F *030918779-0090*	ROOM 1D/ PLASTER WALL SKIM	White Non-Fibrous Heterogeneous		60% Ca Carbonate 40% Non-fibrous (other)	**None Detected**

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

EMSL Analytical, Inc.
307 West 38th Street, New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

Attn: **Bob May**
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50 Redfield Street
Boston, MA 02122

Fax: (413) 647-0018 Phone: (617) 282-4675
Project: **20070914.A4E/ BOURNE PUBLIC SCHOOLS/ PEEBLES ELEMATARY**

Customer ID: ENVI54C
Customer PO:
Received: 07/24/09 9:00 AM
EMSL Order: 030918779

EMSL Proj:
Analysis Date: 7/25/2009

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-28G *030918779-0091*	CUSTODIAN CLOSET NEAR ROOM 7/ PLASTER WALL SKIM	White/Green Non-Fibrous Heterogeneous		50% Ca Carbonate 50% Non-fibrous (other)	**None Detected**
720JH-29A *030918779-0092*	ROOM 10/ PLASTER CEILING ROUGH	Tan Non-Fibrous Heterogeneous	2% Cellulose	53% Non-fibrous (other) 45% Quartz	**<1% Chrysotile**
720JH-29B *030918779-0093*	ROOM 11/ PLASTER CEILING ROUGH	Tan Non-Fibrous Heterogeneous	2% Cellulose	53% Non-fibrous (other) 45% Quartz	**<1% Chrysotile**
720JH-29C *030918779-0094*	ROOM 12/ PLASTER CEILING ROUGH	Tan Non-Fibrous Heterogeneous	<1% Cellulose	50% Non-fibrous (other) 50% Quartz	**<1% Chrysotile**
720JH-29D *030918779-0095*	ROOM 1/ PLASTER CEILING ROUGH	Tan Non-Fibrous Heterogeneous	2% Cellulose	53% Non-fibrous (other) 45% Quartz	**<1% Chrysotile**
720JH-29E *030918779-0096*	ROOM 2/ PLASTER CEILING ROUGH	Tan Non-Fibrous Heterogeneous	3% Cellulose	52% Non-fibrous (other) 45% Quartz	**<1% Chrysotile**
720JH-29F *030918779-0097*	ROOM 3/ PLASTER CEILING ROUGH	Tan Non-Fibrous Heterogeneous	2% Cellulose	48% Non-fibrous (other) 50% Quartz	**<1% Chrysotile**

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

EMSL Analytical, Inc.
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Boston, MA 02122

Fax: (413) 647-0018 Phone: (617) 282-4675
Project: **20070914.A4E/ BOURNE PUBLIC SCHOOLS/ PEEBLES ELEMATARY**

Customer ID: ENVI54C
Customer PO:
Received: 07/24/09 9:00 AM
EMSL Order: 030918779
EMSL Proj:
Analysis Date: 7/25/2009

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-29G *030918779-0098*	ROOM 6/ PLASTER CEILING ROUGH	Tan Non-Fibrous Heterogeneous	2% Cellulose	53% Non-fibrous (other) 45% Quartz	<1% **Chrysotile**
720JH-30A *030918779-0099*	ROOM 10/ PLASTER CEILING ~~ROUGH~~ SKIM	White Non-Fibrous Heterogeneous	5% Cellulose	50% Ca Carbonate 42% Non-fibrous (other)	3% **Chrysotile**
720JH-30B *030918779-0100*	ROOM 11/ PLASTER CEILING SKIM				**Stop Positive (Not Analyzed)**
720JH-30C *030918779-0101*	ROOM 12/ PLASTER CEILING SKIM				**Stop Positive (Not Analyzed)**
720JH-30D *030918779-0102*	ROOM 1/ PLASTER CEILING SKIM				**Stop Positive (Not Analyzed)**
720JH-30E *030918779-0103*	ROOM 2/ PLASTER CEILING SKIM				**Stop Positive (Not Analyzed)**
720JH-30F *030918779-0104*	ROOM 3/ PLASTER CEILING SKIM				**Stop Positive (Not Analyzed)**

Analyst(s)
Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

EMSL Analytical, Inc.
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Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

Attn: **Bob May**
Fuss & O' Neill EnviroScience, LLC
50 Redfield Street
Boston, MA 02122

Fax: (413) 647-0018 Phone: (617) 282-4675
Project: **20070914.A4E/ BOURNE PUBLIC SCHOOLS/ PEEBLES ELEMATARY**

Customer ID: ENVI54C
Customer PO:
Received: 07/24/09 9:00 AM
EMSL Order: 030918779

EMSL Proj:
Analysis Date: 7/25/2009

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
720JH-30G *030918779-0105*	ROOM 6/ PLASTER CEILING SKIM				**Stop Positive (Not Analyzed)**

Analyst(s)

Williams John (111)

James Hall, Laboratory Manager
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. New York 307 West 38th Street, New York NY NVLAP Lab Code 101048-9, AIHA IHLAP 102581, NYS ELAP 11506, CT PH-0170, MA AA000170

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SAMPLE LOG FOR ASBESTOS BULKS

09 JUL 24 AM 9:50

Sheet 1 of 10

Project Name: Bourne Public Schools

MANHATTAN RECEIVED

Project No: 20070914.A4E

Building: Peebles Elementary

Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
720JH-01A	Boiler Room	Hot water Tank insulation	
-01B	↓	↓	
-01C	↓	↓	
720JH-02A	↓	Boiler Breaching insulation Boiler #2	
-02B	↓	Boiler #1	
-02C	↓	↓	
720JH-03A	↓	Boiler insulation Boiler #2	
-03B	↓	Boiler #1	
-03C	↓	↓	
720JH-04A	↓	vibration isolator	
-04B	Attic	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

#792097962462

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: Stop @ first positive in each set

RECEIVED JUL 23 2009 By SA 0940

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ][JH] Date: [ ][7/22/09] Time: [ ][PM]

Samples Received By: Svasconez Date: 7/24 Time: 9:50 AM

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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MANHATTAN
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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 10

Project Name: Bourne Public Schools Project No. 20070914.A1E

Building: Peebles Elementary Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
720JH-05A	Office near Room 9	Pre-formed block type pipe insulation	
-05B	↓	↓	
-05C	↓	↓	
720JH-06A	Storage near Room 13	Air Cell pipe insulation	
-06B	Chase near Room 7 (custodial)	↓	
-06C	Stage	↓	
720JH-07A	Storage near Room 13	Mudded Fittings	
-07B	↓	↓	
-07C	Stage	↓	
720JH-08A	Room 10	Black Cove Base	
-08B	Room 8	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st Page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ][JH] Date: [ ][7/22/09] Time: [ ][PM]

Samples Received By: [illegible] Date: 7/24 Time: 9:50 AM

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 3 of 10

Project Name: Bourne Public Schools Project No. 20070914.A4E

Building: Peebles Elementary Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
-08C	Room 5	↓	
720JH-09A	Room 10	Black Mastic A/W Black cove Base	
-09B	Room 8	↓	
-09C	Room 5	↓	
720JH-10A	Room 4	vinyl window sill	
-10B	Room 10	↓	
-10C	Room 12	↓	
720JH-11A	Loose in Attic	1x1 ceiling Tile pin hole	
-11B	↓	↓	
-11C	↓	↓	
720JH-12A	↓	Dark Brown mastic A/W 1x1 ceiling Tile	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hours

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ] [JH] Date: [ ] [7/21/09] Time: [ ] [PM]

Samples Received By: [illegible] Date: 7/24 Time: 940 am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

09 JUL 24 AM 9:50

Sheet 4 of 10

Project Name: Bourne Public Schools Project No. 20070914. A4E

Building: Peebles elementary Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
-12B	↓	↓	
-12C	↓	↓	
720JH-13A	Room 22	Black mastic A/W 9x9 FT	
-13B	main Lobby	↓	
-13C	Ground Floor Hall	↓	
720JH-14A	Room 9	Black mastic A/W 12X12 FT	
-14B	Room 12	↓	
-14C	Breezeway Between Room 10 & 11	↓	
720JH-15A	Room 1	Blue/grey w/ white streaks 12X12	
-15B	↓ 2	↓	
-15C	↓ 3	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hr.

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ] Date: [ ] Time: [ ]

Samples Received By: (SL) Date: 7/24/09 Time: 9:40am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 5 of 10

Project Name: Bourne Public Schools Project No. 20070914. A1E

Building: Peebles Elementary Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
720JH-16A	Room 6	white/Yellow/Brown 12X12 FT	
-16B	↓	↓	
-16C	↓	↓	
720JH-17A	Room 1	Tan w/ white streaks 12X12 FT	
-17B	↓ 2	↓	
-17C	↓ 3	↓	
720JH-18A	Room 8	white w/ Brown + Blue streaks 12X12 FT	
-18B	↓	↓	
-18C	↓	↓	
720JH-19A	Room 4	Red w/ Pink streaks 12X12 FT	
-19B	↓	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ] [ ] Date: [ ] [ ] Time: [ ] [ ]

Samples Received By: (SV) Date: 7/24/09 Time: 9:40 am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 6 of 10

Project Name: Bourne Public Schools RECEIVED MAINHATTAN Project No. 20070914.A4E

Building: Peebles Elementary Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
-19C	↓	↓	
720JH-20A	Room 4	Brown w/ LT Brown & Dark Brown Streaks 12X12 FT	
-20B	↓	↓	
-20C	↓	↓	
720JH-21A	Room 9	Grey w/ Brown streaks 12X12 FT	
-21B	↓ 10	↓	
-21C	↓ 12	↓	
720JH-22A	Breezeway between Room 10 & 11	Tan w/ Brown Streaks 12X12 FT	
-22B	↓	↓	
-22C	↓	↓	
720JH-23A	Room 12	Tan w/ pink & Brown Streak 12X12 FT	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hrs

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ][ ] Date: [ ][ ] Time: [ ][ ]

Samples Received By: (ISV) Date: 7/24/09 Time: 9:40 am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 7 of 10

Project Name: Bourne Public Schools Project No. 20070914.A4E

Building: Peebles Elementary School Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
-23B	↓	↓	
-23C	↓	↓	
720JH-24A	Room 11	Tan w/ Brown & white streaks 12x12 FT	
-24B	↓	↓	
-24C	↓	↓	
720JH-25A	↓	Brown w/ Brown & white streaks 12x12FT	
-25B	↓	↓	
-25C	↓	↓	
720JH-26A	Room 9	Tan w/ Brown streaks 12x12 FT	
-26B	↓	↓	
-26C	↓	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ][ ] Date: [ ][ ] Time: [ ][ ]

Samples Received By: (SO) Date: 9/24/09 Time: 9:40am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

09 JUL 14 AM 9:50

Sheet 8 of 10

Project Name: Bourne Public Schools

Project No: 20070914.A4E

Building: Peebles Elementary School

Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
720JH-27A	Stairwell near 12	Plaster wall Rough	
-27B	Room 11	↓	
-27C	outside Boiler Room	↓	
-27D	Attic	↓	
-27E	↓	↓	
-27F	Room 10	↓	
-27G	Custodial closet near Room 7	↓	
720JH-28A	stairwell near 12	Plaster wall Skim	
-28B	Room 11	↓	
-28C	outside Boiler Room	↓	
-28D	attic	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st page

Samples Collected By: JH Date: 7/10/09 Time: Am/Am

Samples [Rec'd][Sent By]: [ ] Date: [ ] Time: [ ]

Samples Received By: [signature] Date: 7/14/01 Time: 9:40am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 9 of 10

Project Name: Bronx Public Schools Project No. 20070914.H45

Building: Peebles Elementary Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
-28E	Attic		
-28F	Room 10		
-28G	Custodial Closet near Room 7		
720JH-29A	Room 10	Plaster ceiling Rough	
-29B	Room 11		
-29C	Room 12		
-29D	Room [redacted]1		
-29E	Room 2		
-29F	Room 3		
-29G	Room 6		
720JH-30A	Room 10	Plaster ceiling skim	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hrs

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ][ ] Date: [ ][ ] Time: [ ][ ]

Samples Received By: (SV) Date: 7/24/09 Time: 9:40 am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____

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50 Redfield Street, Suite 100 Boston, MA 02122

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SAMPLE LOG FOR ASBESTOS BULKS

09 JUL 29 AM 9:50

Sheet 10 of 10

Project Name: Bourne Public Schools

Project No. 200-70914-A4E

Building: Peebles Elementary School

Project Manager: Bob May

Sample ID	Sample Location	Material	Result (%)
-30B	Room 11	Plaster ceiling skim	
-30C	12		
-30D	1		
-30E	2		
-30F	3		
-30G	6		

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 48 hrs

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory at (860) 953-2700 if analyses will be late.

Fax Results To: EnviroScience Consultants, Inc. Laboratory at 413-647-0018

Special Instructions: See 1st Page

Samples Collected By: JH Date: 7/20/09 Time: AM/PM

Samples [Rec'd][Sent By]: [ ][JH] Date: [ ][7/22/09] Time: [ ][PM]

Samples Received By: SV Date: 7/24/09 Time: 9:40 am

Shipped To: ☒ EMSL (State) _____ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ UPS Overnight ☐ UPS Ground ☐ Other _____