Limited Asbestos Inspection Report

Otis Memorial Elementary School
5500 Curtis Blvd
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.A2E

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
Otis Memorial Elementary School
5500 Curtis Blvd, 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 Otis Memorial Elementary School located at 5500 Curtis Blvd in Bourne, Massachusetts. The services were performed on July 17, 2009 by Fuss & O'Neill EnviroScience, LLC licensed inspectors.

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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Boston, MA
02122

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South Carolina

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FUSS & O'NEILL
EnviroScience, LLC

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Otis Memorial Elementary School
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1. Introduction

On July 17, 2009, Fuss and O' Neill EnviroScience, LLC (EnviroScience) representatives, Dustin Diedricksen and Jonathan Hand, performed a limited inspection and sampling for asbestos containing materials (ACM) at the Otis Memorial Elementary School located at 5500 Curtis Blvd 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. Both Mr. Diedricksen and Mr. Hand are licensed asbestos inspectors 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
Throughout School	Mudded Insulation on Pipe Fittings	717DD-01A	10% Chrysotile 10% Amosite
Boiler Room	Boiler Breeching	717DD-02A	80% Chrysotile
Classrooms	Black sink Undercoat	717DD-04 A	5% 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.
Generator Room	Vibration Isolator	717DD-03 A-B
Throughout School	Black Cove Base	717DD-05 A-C
Throughout School	Black Mastic a/w Black Cove Base	717DD-06 A-C
Throughout School	Black Mastic a/w 9x9 Floor Tile	717DD-07 A-E
Throughout School	Wall Plaster Skim	717DD-08 A-G
Throughout School	Wall Plaster Rough	717DD-09 A-G
Throughout School	Ceiling Plaster Skim	717DD-10 A-G
Throughout School	Ceiling Plaster Rough	717DD-11 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 non-friable sink undercoating and none require further analysis by the EPA 400 point-counting technique.

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

Appendix A

Inspectors Licenses

Commonwealth of Massachusetts

Division of Occupational Safety

Laura M. Marlin, Commissioner

Asbestos Inspector

DUSTIN A. DIEDRICKSEN

Eff. Date 04/30/09

Exp. Date 04/29/10

AI041867

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

NB

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NB-RENEW

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

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

IEE IEE

This is to certify that
Dustin A Diedricksen

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

09-3975-106-208040
Certificate Number

January 26, 2010
Expiration Date

Training Director

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

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

IEE

This is to certify that
Dustin A Diedricksen

IEE

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

September 21, 2007
Course Dates

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

September 21, 2007
Examination Date

07-2601-106-208040
Certificate Number

September 21, 2008
Expiration Date

Training Director

EnviroScience Consultants, Inc.

795 North Mountain Road, Newington, CT 06111 – (860) 953-2700

This is to certify that

Dustin Diedricksen
70 Marion Road, Scituate, MA 02066
SS# 042-80-6031

has successfully completed the
4 Hr. Asbestos Inspector Refresher
Asbestos Accreditation under TSCA Title II
40 CFR Part 763

James Scott, Principal Instructor

Neal Freuden, Training Manager

September 18, 2006
Date of Course

AI-R-09/06-11
Certificate Number

September 18, 2006: B+
Examination Date & Grade

September 18, 2007
Expiration Date

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive, Wilmington, MA 01887
(978) 658-5272

IEE IEE

This is to certify that
Dustin A Diedricksen

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

Asbestos Inspector

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

November 28-30, 2005
Course Dates

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

November 30, 2005
Examination Date

November 30, 2006
Expiration Date

057604102102419
Certificate Number

President/Director of Training

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

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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

January 26, 2009
Examination Date

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

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 Hobbs

Principal Instructor

January 7-9, 2008
Date of Course

January 9, 2009
Expiration Date

Gregory J. Morsch

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.
7 Constitution Way, Suite 107, Woburn, MA 01801
Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@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; Otis Memorial Elementary School**

Customer ID: ENVI54C
Customer PO:
Received: 07/20/09 9:45 AM
EMSL Order: 130902669
EMSL Proj:
Analysis Date: 7/24/2009

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
717DD-01A *130902669-0001*	Supplies Rm; Mudded Fittings a/w FG Pipe Insul	White Fibrous Homogeneous			80%	Non-fibrous (other)	10%	Chrysotile
							10%	Amosite
717DD-01B *130902669-0002*	Air Hand Unit @ Kit; Mud Fitting a/w FG Pipe Insul							Stop Positive (Not Analyzed)
717DD-01C *130902669-0003*	Boiler Rm; Mudded Fittings a/w FG Pipe Insul							Stop Positive (Not Analyzed)
717DD-02A *130902669-0004*	Boiler Breeching; TSI	Gray Fibrous Homogeneous			20%	Non-fibrous (other)	80%	Chrysotile
717DD-02B *130902669-0005*	Boiler Breeching; TSI							Stop Positive (Not Analyzed)
717DD-02C *130902669-0006*	Boiler Breeching; TSI							Stop Positive (Not Analyzed)
717DD-03A *130902669-0007*	Generator; Vibration Isolator Cloth	Gray Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)		None Detected

Analyst(s)
Kevin Pine (44)

Renaldo Drakes
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none dete require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express v approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Ir and use of test results are the responsibility of the client.Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Woburn 7 Constitution Way, Suite 107, Woburn MA NVLAP Lab Code 101147-0, AIHA IHLAP 180179, CT PH-0315, MA AA000188, R and VT AL357102

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7 Constitution Way, Suite 107, Woburn, MA 01801
Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@emsl.com

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			Non-Asbestos				Asbestos
Sample	Description	Appearance	%	Fibrous	%	Non-Fibrous	% Type
717DD-03B *130902669-0008*	Generator; Vibration Isolator Cloth	Gray Fibrous Homogeneous	95%	Cellulose	5%	Non-fibrous (other)	None Detected
717DD-04A *130902669-0009*	Classrm #3; Black Sink Undercoat	Black Non-Fibrous Homogeneous			95%	Non-fibrous (other)	5% Chrysotile
717DD-04B *130902669-0010*	Classrm #7; Black Sink Undercoat						Stop Positive (Not Analyzed)
717DD-04C *130902669-0011*	Classrm #19; Black Sink Undercoat						Stop Positive (Not Analyzed)
717DD-05A *130902669-0012*	Supplies Rm; Black Covebase	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected
717DD-05B *130902669-0013*	Faculty Rm; Black Covebase	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected
717DD-05C *130902669-0014*	Main Office Reception; Black Covebase	Black Non-Fibrous Homogeneous			100%	Non-fibrous (other)	None Detected

Analyst(s)

Kevin Pine (44)

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or other approved signatory

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			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
717DD-06A *130902669-0015*	Supplies Rm; Black Mastic a/w Black Covebase	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-06B *130902669-0016*	Faculty Rm; Black Mastic a/w Black Covebase	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-06C *130902669-0017*	Main Office Reception; Blk Mastic a/w Blk Covebase	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-07A *130902669-0018*	Health Office/Clinic; Black Mastic a/w 9x9 FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-07B *130902669-0019*	Gym; Black Mastic a/w 9x9 FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-07C *130902669-0020*	Gym; Black Mastic a/w 9x9 FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-07D *130902669-0021*	Classrm #11; Black Mastic a/w 9x9 FT	Black Non-Fibrous Homogeneous		100% 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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
717DD-07E *130902669-0022*	Classrm #14; Black Mastic a/w 9x9 FT	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-08A *130902669-0023*	Mens Bathrm acr Supply Rm; Skim Wall Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-08B *130902669-0024*	Girls Handicap Bathrm; Skim Wall Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-08C *130902669-0025*	Classrm #8 Upr Wall abv Closet; Skim Wall Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-08D *130902669-0026*	Classrm #11 Bathrm; Skim Wall Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-08E *130902669-0027*	Classrm #12; Skim Wall Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-08F *130902669-0028*	Classrm #14 Upr Wall abv Closet; Skim Wall Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)

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Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
717DD-09A *130902669-0029*	Mens Bathrm acr Supply Rm; Rough Wall Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-09B *130902669-0030*	Girls Handicap Bathrm; Rough Wall Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-09C *130902669-0031*	Classrm #8 Upr Wall abv Closet; Rough Wall Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-09D *130902669-0032*	Classrm #11 Bathrm; Rough Wall Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-09E *130902669-0033*	Classrm #12; Rough Wall Plstr	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
717DD-09F *130902669-0034*	Classrm #14 Upr Wall abv Closet; Rough Wall Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
717DD-10A *130902669-0035*	Womens Bathrm acr Supply Rm; Skim Ceiling Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Kevin Pine (44)

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Boston, MA 02122

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Analysis Date: 7/24/2009

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
717DD-10B *130902669-0036*	Girls Handicap Bathrm; Skim Ceiling Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-10C *130902669-0037*	Kitchen; Skim Ceiling Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-10D *130902669-0038*	Classrm #1 Closet; Skim Ceiling Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-10E *130902669-0039*	Classrm #14 Closet; Skim Ceiling Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-10F *130902669-0040*	Classrm #17 Closet; Skim Ceiling Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-10G *130902669-0041*	Cust Closet; O/S Classrm #11; Skim Ceiling Plstr	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-11A *130902669-0042*	Womens Bathrm acr Supply Rm; Rough Ceiling Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)

Kevin Pine (44)

Renaldo Drakes
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none dete require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express v approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Ir and use of test results are the responsibility of the client.Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Woburn 7 Constitution Way, Suite 107, Woburn MA NVLAP Lab Code 101147-0, AIHA IHLAP 180179, CT PH-0315, MA AA000188, R and VT AL357102

EMSL Analytical, Inc.
7 Constitution Way, Suite 107, Woburn, MA 01801
Phone: (781) 933-8411 Fax: (781) 933-8412 Email: bostonlab@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; Otis Memorial Elementary School**

Customer ID: ENVI54C
Customer PO:
Received: 07/20/09 9:45 AM
EMSL Order: 130902669

EMSL Proj:
Analysis Date: 7/24/2009

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
717DD-11B *130902669-0043*	Girls Handicap Bathrm; Rough Ceiling Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-11C *130902669-0044*	Kitchen; Rough Ceiling Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-11D *130902669-0045*	Classrm #1 Closet; Rough Ceiling Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-11E *130902669-0046*	Classrm #14 Closet; Rough Ceiling Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-11F *130902669-0047*	Classrm #17 Closet; Rough Ceiling Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-11G *130902669-0048*	Cust Closet; O/S Classrm #11; Rough Ceiling Plstr	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
717DD-08G *130902669-0049*	Health Office/Clinic; Skim Wall Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)

Kevin Pine (44)

Renaldo Drakes
or other approved signatory

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Fax: (413) 647-0018 Phone: (617) 282-4675
Project: **20070914.A4E / Bourne Public Schools; Otis Memorial Elementary School**

Customer ID: ENVI54C
Customer PO:
Received: 07/20/09 9:45 AM
EMSL Order: 130902669

EMSL Proj:
Analysis Date: 7/24/2009

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
717DD-09G *130902669-0050*	Health Office/Clinic; Rough Wall Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Kevin Pine (44)

Renaldo Drakes
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn 7 Constitution Way, Suite 107, Woburn MA NVLAP Lab Code 101147-0, AIHA IHLAP 180179, CT PH-0315, MA AA000188, R and VT AL357102

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130902669

FUSS & O'NEILL
EnviroScience, LLC

50 Redfield Street, Suite 100 Boston, MA 02122

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(617) 282-4675 Fax: (617) 282-8253

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 5

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

Building: Otis Memorial Elementary School Project Manager: Bob May

	Sample ID	Sample Location	Material	Result (%)
1	717DD-01A	Supplies Room	Mudded Fittings A/W Fiberglass Pipe Insulation	
2	-01B	Air Handling Unit @ Kitchen	↓	
3	-01C	Boiler Room	↓	
4	717DD-02A	Boiler Breeching	TSI	
5	-02B	↓	↓	
6	-02C	↓	↓	
7	717DD-03A	Generator	Vibration Isolators (Cloth)	
8	-03B	↓	↓	
9	717DD-04A	Class Room #3	Black Sink Undercoat	20 Sinks
10	-04B	Class Room #7	↓	
11	-04C	Class Room #19	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 24 Hour

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

Fed Ex # 792097962451

RECEIVED JUL 20 2009 Sa 0945

Special Instructions: Stop At First Positive Count In Each Homogeneous Set.

Samples Collected By: D.D. + J.H. Date: 7/17/09 Time: A.M.

Samples [Rec'd][Sent By]: [ ][D.D.] Date: [ ][7/17] Time: [ ][P.M.]

Samples Received By: _____ Date: _____ Time: _____

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

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

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 5

Project Name: BOURNE PUBLIC SCHOOLS Project No. 2007 0914.A4E

Building: OTIS MEMORIAL ELEMENTARY SCHOOL Project Manager: BOB MAY

	Sample ID	Sample Location	Material	Result (%)
12	717DD-05A	SUPPLIES ROOM	BLACK COVEBASE	
13	-05B	FACULTY ROOM	↓	
14	-05C	MAIN OFFICE RECEPTION	↓	
15	717DD-06A	SUPPLIES ROOM	BLACK MASTIC A/W BLACK BASECOVE	
16	-06B	FACULTY ROOM	↓	
17	-06C	MAIN OFFICE RECEPTION	↓	
18	717DD-07A	HEALTH OFFICE/ CLINIC	BLACK MASTIC A/W 9+9 FLOOR TILE	
19	-07B	GYMNASIUM	↓	
20	-07C	GYMNASIUM	↓	
21	-07D	CLASSROOM #11	↓	
22	-07E	CLASSROOM #14	↓	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 24 HOUR

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: DD. + J.H. Date: 7/17/09 Time: A.M.

Samples [Rec'd] [Sent By]: [ ] [D.D] Date: [ ] [7/17] Time: [ ] [P.M]

Samples Received By: _____ Date: _____ Time: _____

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

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

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 3 of 5

Project Name: BOURNE PUBLIC SCHOOLS Project No. 20070914.A4E

Building: OTIS MEMORIAL ELEMENTARY SCHOOL Project Manager: BOB MAY

	Sample ID	Sample Location	Material	Result (%)
23	717DD-08A	~~BATH~~, BATHROOM MENS ACROSS FROM SUPPLIES	SKIM WALL PLASTER	
24	-08B	GIRL'S HANDICAP ROOM BATHROOM		
25	-08C	CLASSROOM #8 UPPER WALL ABOVE CLOSET		
26	-08D	CLASSROOM #11 BATHROOM		
27	-08E	CLASSROOM #12		
28	☆-086 ON PG.5	CLASSROOM #14 UPPER WALL ABOVE CLOSET		
29	717DD-09A	MENS BATHROOM ~~ACROSS~~ ACROSS FROM SUPPLIES ROOM	ROUGH WALL PLASTER	
30	-09B	GIRL'S HANDICAP BATHROOM		
31	-09C	CLASSROOM #8 UPPER WALL ABOVE CLOSET		
32	-09D	CLASSROOM #11 BATHROOM		
33	-09E	CLASSROOM #12		

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 24 HOUR

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

☆ - SAMPLE -086 IS ON PAGE 5

Samples Collected By: D.D + J.H. Date: 7/17/09 Time: A.M.

Samples [Rec'd] [Sent By]: [ ][D.D.] Date: [ ][7/17] Time: [ ][P.M.]

Samples Received By: _____ Date: _____ Time: _____

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

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

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 4 of 5

Project Name: BOURNE PUBLIC SCHOOLS Project No. 200709 14.A4E

Building: OTIS MEMORIAL ELEMENTARY SCHOOL Project Manager: BOB MAY

	Sample ID	Sample Location	Material	Result (%)
-09G on ☆ PG.5 34	-09F	CLASSROOM # 14 UPPER WALL ABOVE CLOSET	ROUGH WALL PLASTER	
35	717DD-10A	WOMEN'S BATHROOM ACROSS FROM SUPPLIES ROOM	SKIM CEILING PLASTER	
36	-10B	GIRLS HANDICAP BATHROOM	↓	
37	-10C	KITCHEN		
38	-10D	CLASSROOM #1 CLOSET		
39	-10E	CLASSROOM # 14 CLOSET		
40	-10F	CLASSROOM #17 CLOSET		
41	-10G	CUSTODIAN CLOSET @ HALL O/S CLASSROOM #14		
42	717DD-11A	WOMEN'S BATHROOM ACROSS FROM SUPPLIES ROOM	ROUGH CEILING PLASTER	
43	-11B	GIRLS HANDICAP BATHROOM	↓	
44	-11C	KITCHEN		

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 24 HOUR

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

☆ SAMPLE -09G IS ON PAGE 5

Samples Collected By: D.D. + J.H. Date: 7/17/09 Time: A.M.

Samples [Rec'd][Sent By]: [ ][D.D.] Date: [ ][7/17/09] Time: [ ][P.M.]

Samples Received By: _____ Date: _____ Time: _____

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

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

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 5 of 5

Project Name: BOURNE PUBLIC SCHOOLS Project No. 20070914.A4E

Building: OTIS MEMORIAL ELEMENTARY SCHOOL Project Manager: BOB MAY

	Sample ID	Sample Location	Material	Result (%)
45	-11D	CLASSROOM #1 CLOSET		
46	-11E	CLASS ROOM #14 CLOSET		
47	-11F	CLASSROOM # 17 CLOSET		
48	-11G	CUSTODIA CLOSET @ HALL O/S CLASSROOM #11		
49 ★	717DD-08G	HEALTH OFFICE/CLINIC	SKIM WALL PLASTER	
50 ★	717DD-09G	HEALTH OFFICE/CLINIC	ROUGH WALL PLASTER	

Analysis Method: ☒ PLM ☐ Other _____ Turnaround Time 24 HOUR

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.

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