



Cushing Elementary School One Aberdeen Drive Scituate, Massachusetts

AHERA INSPECTION REPORT/MANAGEMENT PLAN

May 2021

PREPARED FOR:

Scituate Public Schools 606 Chief Justice Cushing Highway Scituate, Massachusetts Attn: Mr. Robert Dillon

PREPARED BY:

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VERTEX Project No: 69699

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Introduction

The Vertex Companies, Inc. (VERTEX) conducted a 3-Year Re-inspection on April 20, 2021 as required by the 40 CFR 763 Asbestos Hazard Emergency Response Act (AHERA) at the Cushing Elementary School located at One Aberdeen Drive in Scituate, Massachusetts. The AHERA regulation requires that each Local Education Agency (LEA) retain a certified/accredited Asbestos Inspector to conduct an initial inspection of all friable and non-friable known or assumed asbestos-containing building materials (ACBM) in each school building that they lease, own, or otherwise uses as a school building. The AHERA re-inspection is to be performed by an accredited inspector at least once every three years from the time of implementation of the original management plan. In addition, the LEA is responsible for conducting Six-Month Periodic Surveillance Inspections as required to effectively manage the identified ACBMs in place at the school.

The Scituate Public School District may utilize the information obtained from the AHERA inspection to effectively manage the ACBMs identified at the Cushing Elementary School.



SECTION 1

INSPECTION REPORT



Section 1 Inspection Report

Inspection Protocol

Massachusetts Department of Labor Standards (DLS) Certified Asbestos Inspector, Jason Mohre (AI#000262) performed the AHERA inspection. The Management Plan was updated by Massachusetts DLS Certified Asbestos Management Planner, Jason Mohre (AP#000080). The purpose of the inspection was to identify friable and non-friable ACBMs and perform a hazard assessment. As required by the AHERA regulation, the inspection survey procedures must include a visual inspection and assessment of the condition of all known locations of friable and non-friable ACBMs. It should be noted that under the AHERA regulations only ACBMs are inspected within the school building, other asbestos containing materials (ACMs) may be associated with the school that do not fall under AHERA ACBM definition. Examples of materials which have been found to contain asbestos include but are not limited to exterior window caulking, window glazing, and roofing material. Prior to school renovations any suspect materials not sampled or listed within the school's AMP, must be tested prior to disturbance. Furthermore, VERTEX recommends an Asbestos Containing Materials (ACMs) Survey be conducted prior to any renovation activities to comply with the Environmental Protection Agency (EPA) Title 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs) and the Massachusetts Department of Environmental Protection Regulations. Documentation for subsequent surveys not related to AHERA should be included in the overall Management Plan.

Assessment of potential asbestos hazards are subject to each individual inspector's judgment, and as a result, hazard assessments may vary.

Furthermore, the LEA Designated Person should assume that potential asbestos-containing pipe and fitting insulation or other ACBMs may be located behind walls and ceilings not accessible. Any renovation/demolition work that may penetrate these areas should be inspected prior to disturbance.

All available documentation of asbestos abatement projects, which have occurred since the initial AHERA inspection should be included with the Management Plan for the school.

VERTEX was provided and reviewed the following documents for the Cushing Elementary School facility:

- AHERA Inspection and Management Plan for Cushing Elementary School facility prepared by Covino, dated November 2013.
- AHERA Inspection and Management Plan for Cushing Elementary School facility prepared by TRC, dated April 2016.

Appendix D contains Certification Page for the Inspector and Management Planner involved with the inspection of the school.

Locations of the identified ACBMs with quantities observed, conditions assessed, homogeneous hazard assessment are presented in Appendix A of this report.



Section 1 Inspection Report (continued) Bulk Sampling Methodology

Bulk samples were collected and analyzed to determine the identity of suspect materials and their composition. Bulk samples were collected in the following sampling scheme which is derived from AHERA: For non-friable materials, two (2) or more random samples are taken to determine asbestos content. Miscellaneous material samples are collected in locations where minimal damage would be inflicted on the material during sample collection.

EMSL Analytical Inc. of Woburn, MA using Polarized Light Microscopy (PLM) as described in 40 CFR 763, analyzed the bulk sample results attached. Each bulk sample was analyzed in accordance with U.S. Environmental Protection Agency (EPA) 600/R-93/116 recommended protocol-using PLM.

EMSL Analytical Inc. is accredited through the National Voluntary Laboratory Accreditation Program (#101147-0) and is a Massachusetts certified analytical laboratory (AA000188).

Cushing Elementary School April 2021 Sample Locations and Results Table I

Sample Number	Sample Description	Sample Location	Asbestos Content
B-420-1A	1' x 1' Ceiling Tile (Fissure)	Main Hallway	None Detected
B-420-1B	1' x 1' Ceiling Tile (Fissure)	Hall Between Rooms 20 and 21	None Detected
B-420-2A	Brown Glue Daubs	Hall Between Rooms 20 and 21	None Detected
B-420-2B	Brown Glue Daubs	Hall Between Rooms 13 and 16	None Detected
B-420-2C	Brown Glue Daubs	Room 4.5	None Detected



Section 1 Inspection Report (continued) Bulk Sampling Methodology

Bulk samples were <u>not</u> collected during the current reinspection. Bulk samples were collected by Covino Environmental (Covino) during their August 2013 inspection activities. The following table outlines the building materials collected and analyzed by Covino:

Cushing Elementary School August 2013 Sample Locations and Results Table I

	Table I		
Sample Number	Sample Description	Sample Location	Asbestos Content
1A	6" Pipe Fitting Insulation	Pipe Tunnel	None Detected
1B	6" Pipe Fitting Insulation	Pipe Tunnel	None Detected
1C	6" Pipe Fitting Insulation	Pipe Tunnel	None Detected
2A	1" Pipe Fitting Insulation	Pipe Tunnel	None Detected
2B	1" Pipe Fitting Insulation	Pipe Tunnel	None Detected
2C	1" Pipe Fitting Insulation	Pipe Tunnel	None Detected
2D	1" Pipe Fitting Insulation	Boiler Storage Room	2 % Chrysotile
2E	1" Pipe Fitting Insulation	Girls Restroom	Positive Stop
2F	1" Pipe Fitting Insulation	Custodian Attic by Library	Positive Stop
2G	1" Pipe Fitting Insulation	Room 10 Closet	Positive Stop
3A	Plaster Base Coat	Boiler Room	None Detected
3B	Plaster Base Coat	Boiler Room	None Detected
3C	Plaster Base Coat	Boiler Room	None Detected
3D	Plaster Base Coat	Boys Room by Rm 12	None Detected
3E	Plaster Base Coat	Boys Room by Rm 12	None Detected
4A	Plaster Skim Coat	Boiler Room	None Detected
4B	Plaster Skim Coat	Boiler Room	None Detected
4C	Plaster Skim Coat	Boiler Room	None Detected
4D	Plaster Skim Coat	Boys Room by Rm 12	None Detected
4E	Plaster Skim Coat	Boys Room by Rm 12	None Detected
5A	Duct Vibration Dampener Cloth	Boiler Room	None Detected
5B	Duct Vibration Dampener Cloth	Boiler Room	None Detected
6A	Canvas Covering on Exhaust Breeching	Boiler Room	None Detected
6B	Canvas Covering on Exhaust Breeching	Boiler Room	None Detected
6C	Canvas Covering on Exhaust Breeching	Boiler Room	None Detected
7A	Plaster Base Coat	Storage	None Detected
7B	Plaster Base Coat	Small Kitchen Storage	None Detected
7C	Plaster Base Coat	Small Kitchen Storage	None Detected
8A	Plaster Skim Coat	Storage	None Detected
8B	Plaster Skim Coat	Small Kitchen Storage	None Detected
8C	Plaster Skim Coat	Small Kitchen Storage	None Detected



Cushing Elementary School August 2013 Sample Locations and Results Table I (Continued)

Sample	Sample Description	Sample Location	Asbestos
Number	·		Content
9A	Abandoned Generator Exhaust Insulation	Hall by Generator Room	30 % Chrysotile
			15% Amosite
9B	Abandoned Generator Exhaust Insulation	Hall by Generator Room	Positive Stop
9C	Abandoned Generator Exhaust Insulation	Kitchen Storage	Positive Stop
10A	4' x 8' Tectum Ceiling Panels	Hall by Electric Room	None Detected
10B	4' x 8' Tectum Ceiling Panels	Library	None Detected
10C	4' x 8' Tectum Ceiling Panels	Room 10	None Detected
11A	Walkin Cooler Ceiling Insulation	Kitchen	None Detected
11B	Walkin Cooler Ceiling Insulation	Kitchen	None Detected
12A	Walkin Cooler Wall Insulation	Kitchen	None Detected
12B	Walkin Cooler Wall Insulation	Kitchen	None Detected
13A	1' x 1' Pin-hole Ceiling Tile	Kitchen	None Detected
13B	1' x 1' Pin-hole Ceiling Tile	Kitchen	None Detected
13C	1' x 1' Pin-hole Ceiling Tile	Kitchen	None Detected
14A	1' x 1' Fissured Ceiling Tile	Kitchen Office	None Detected
14B	1' x 1' Fissured Ceiling Tile	Room 2A	None Detected
14C	1' x 1' Fissured Ceiling Tile	Girls Room by Rm 12	None Detected
15A	9" Gray Floor Tile	Kitchen Office	15 % Chrysotile
15B	9" Gray Floor Tile	Room 1	Positive Stop
15C	9" Gray Floor Tile	Room 8	Positive Stop
16A	9" Gray Floor Tile Mastic	Kitchen Office	15 % Chrysotile
16B	9" Gray Floor Tile Mastic	Room 1	Positive Stop
16C	9" Gray Floor Tile Mastic	Room 8	Positive Stop
17A	4" Gray Covebase	Kitchen Office	None Detected
17B	4" Gray Covebase	Room 8	None Detected
17C	4" Gray Covebase	Room 12	None Detected
18A	4" Gray Covebase Adhesive	Kitchen Office	None Detected
18B	4" Gray Covebase Adhesive	Room 8	None Detected
18C	4" Gray Covebase Adhesive	Room 12	None Detected
19A	2' x 4' Fissured Ceiling Tile	Cafeteria	None Detected
19B	2' x 4' Fissured Ceiling Tile	Cafeteria	None Detected
19C	2' x 4' Fissured Ceiling Tile	Cafeteria	None Detected
20A	Plaster Base Coat	Hall by Cafeteria	None Detected
20B	Plaster Base Coat	Hall by Cafeteria	None Detected
20C	Plaster Base Coat	Hall by Cafeteria	None Detected
21A	Plaster Skim Coat	Hall by Cafeteria	None Detected
24.0	Plaster Skim Coat	Hall by Cafeteria	None Detected
21B	Flaster Skilli Coat	Trail by Careteria	None Detected



Cushing Elementary School August 2013 Sample Locations and Results Table I (Continued)

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Sample Number	Sample Description	Sample Location	Asbestos Content
22A	9" Brown Floor Tile	Cafeteria	10 % Chrysotile
22B	9" Brown Floor Tile	Room 21A	Positive Stop
22C	9" Brown Floor Tile	Room 21A	Positive Stop
23A	9" Brown Floor Tile Mastic	Cafeteria	10 % Chrysotile
23B	9" Brown Floor Tile Mastic	Room 21A	Positive Stop
23C	9" Brown Floor Tile Mastic	Room 21A	Positive Stop
24A	9" Black Floor Tile	Room 1	12 % Chrysotile
24B	9" Black Floor Tile	Room 5	Positive Stop
24C	9" Black Floor Tile	Room 8	Positive Stop
25A	9" Black Floor Tile Mastic	Room 1	12 % Chrysotile
25B	9" Black Floor Tile Mastic	Room 5	Positive Stop
25C	9" Black Floor Tile Mastic	Room 8	Positive Stop
26A	Gold Carpet Adhesive	Library	None Detected
26B	Gold Carpet Adhesive	Library	None Detected
26C	Gold Carpet Adhesive	Library	None Detected
27A	Pink Sink Undercoating	Room 6	12 % Chrysotile
27B	Pink Sink Undercoating	Room 7	Positive Stop
27C	Pink Sink Undercoating	Room 10	Positive Stop
28A	Tan Sheet Flooring	Library	None Detected
28B	Tan Sheet Flooring	Library	None Detected
28C	Tan Sheet Flooring	Library	None Detected
29A	Tan Sheet Flooring Adhesive	Library	None Detected
29B	Tan Sheet Flooring Adhesive	Library	None Detected
29C	Tan Sheet Flooring Adhesive	Library	None Detected
30A	9" Green Floor Tile	Lobby	10 % Chrysotile
30B	9" Green Floor Tile	Hall by Lobby	Positive Stop
31A	9" Green Floor Tile Mastic	Lobby	10 % Chrysotile
31B	9" Green Floor Tile Mastic	Hall by Lobby	Positive Stop
32A	Gypsum Wall Board	Room 21B	None Detected
32B	Gypsum Wall Board	Room 21B	None Detected
32C	Gypsum Wall Board	Room 21C	None Detected
33A	Joint Compound	Room 21B	2 % Chrysotile
33B	Joint Compound	Room 21B	Positive Stop
33C	Joint Compound	Room 21C	Positive Stop
34A	Gray Sink Undercoating	Room 21C	10 % Chrysotile
34B	Gray Sink Undercoating	Room 21C	Positive Stop
35A	Interior Window Glazing	Room 10	None Detected
35B	Interior Window Glazing	Room 4	None Detected
35C	Interior Window Glazing	Room 15	None Detected



Cushing Elementary School August 2013 Sample Locations and Results Table I (Continued)

Sample Number	Sample Description	Sample Location	Asbestos Content
36A	Interior Window Glazing Hallway	Room 10	None Detected
36B	Interior Window Glazing Hallway	Room 11	None Detected
36C	Interior Window Glazing Hallway	Room 21A	2 % Chrysotile
37A	Cementitious Panel Under Windows	Faculty Room	40 % Chrysotile
37B	Cementitious Panel Under Windows	Room 11	Positive Stop
37C	Cementitious Panel Under Windows	Room 10	Positive Stop
38A	Gypsum Wall Board	Hall at Room 14	None Detected
38B	Gypsum Wall Board	Room 15	None Detected
38C	Gypsum Wall Board	Hall at Room 23	None Detected
39A	Seam Sealant on Gypsum Wall Board	Hall at Room 14	None Detected
39B	Seam Sealant on Gypsum Wall Board	Room 15	None Detected
39C	Seam Sealant on Gypsum Wall Board	Hall at Room 23	None Detected
40A	12" White/Blue Floor Tile	Hall at Room 14	None Detected
40B	12" White/Blue Floor Tile	Connecter	None Detected
40C	12" White/Blue Floor Tile	Hall at Room 16	None Detected
41A	12" White/Blue Floor Tile Mastic	Hall at Room 14	None Detected
41B	12" White/Blue Floor Tile Mastic	Connecter	None Detected
41C	12" White/Blue Floor Tile Mastic	Hall at Room 16	None Detected
42A	12" Gray Floor Tile	Hall at Room 16	None Detected
42B	12" Gray Floor Tile	Hall at Room 16	None Detected
42C	12" Gray Floor Tile	Hall at Room 16	None Detected
43A	12" Gray Floor Tile Mastic	Hall at Room 16	None Detected
43B	12" Gray Floor Tile Mastic	Hall at Room 16	None Detected
43C	12" Gray Floor Tile Mastic	Hall at Room 16	None Detected
44A	Brown Glue Daub Associated w/Metal Hatch	Hall at Room 16	None Detected
44B	Brown Glue Daub Associated w/Metal Hatch	Hall at Room 16	None Detected
44C	Brown Glue Daub Associated w/Metal Hatch	Hall at Room 16	None Detected

Bold indicates bulk sample analyzed positive for Asbestos (>1% asbestos containing) **Positive Stop** indicates representative bulk sample analyzed positive for Asbestos.



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Interior Window Glazing

May 2021

Section 1 Inspection Report (continued)

The following is a list of materials that were determined or assumed to be <u>asbestos-containing</u>:

9" Gray Floor Tile 9" Gray Floor Tile Mastic (Black)
9" Green Floor Tile 9" Green Floor Tile Mastic (Black)
9" Black Floor Tile 9" Black Floor Tile Mastic (Black)
9" Brown Floor Tile 9" Brown Floor Tile Mastic (Black)
Black Residual Mastic Cementitious Panel Under Window
Pipe Fitting Insulation Pink Sink Undercoating

Based on the review of the TRC 2017 Re-Inspection report the following materials had been removed from the Management Plan:

Joint Compound

Abandoned Generator Exhaust Breeching Insulation

The following is a list of materials that were found and determined to be <u>non-asbestos</u>:

12" White/Blue Floor Tile12" White/Blue Floor Tile Mastic12" Gray Floor Tile12" Gray Floor Tile MasticTan Sheet FlooringTan Sheet Flooring AdhesivePlaster Base CoatPlaster Skim Coat

Duct Vibration Dampener Cloth

4' x 8' Tectum Ceiling Panels

1' x 1' Pin-hole Ceiling Tile

4" Gray Covebase

Canvas Covering on Exhaust Breeching
Walkin Cooler Ceiling Insulation

1' x 1' Fissured Ceiling Tile

4" Gray Covebase Adhesive

4" Gray Covebase 4" Gray Covebase Adhesive 2' x 4' Fissured Ceiling Tile Gypsum Wall Board

Gold Carpet Adhesive Seam Sealant on Gypsum Wall Board

Brown Glue Daub Associated w/Metal Hatch

VERTEX recommends an ACMs Survey be conducted prior to any renovation activities to comply with the EPA Title 40 CFR Part 61, NESHAPs and the Massachusetts Department of Environmental Protection Regulations.



Cushing Elementary School One Aberdeen Drive Project #69699

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Section 1 Inspection Report (continued) Hazard Assessment

Each ACBM homogeneous area is assessed to determine the asbestos hazard. Factors considered when assessing homogeneous area hazard include: the friability of the material, the condition of material including type, severity, and extent of damage, the material's potential for disturbance (including accessibility and air flow) and the material's potential for damage. From this classification, a decision tree is used to determine the appropriate response action sufficient to protect human health and environment.

The location, estimated quantities, condition and Homogenous Area Hazard Assessment Category for the identified ACBMs are presented in Appendix A. The following is homogenous area assessment for each ACBM identified.

Homogeneous Area Assessment

Homogeneous Area #1-Pipe Fitting Insulation

Classification: Friable Thermal System Insulation

Asbestos-containing Pipe Fitting Insulation is located in the General Storage, Boys and Girls Bathrooms, Room 10 Storage, and Crawl Space. In addition, the Designated Person should assume that potential asbestos-containing pipe fitting insulation may be located behind walls and ceilings not accessible. Please refer to Appendix A which includes the locations, conditions, and estimated quantities. The pipe fitting insulation where accessible was observed in generally good condition, friable and presents a potential for damage except for displayed damage observed within the Attic by the Library.

Homogeneous Area #2- 9"x 9" Gray Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Gray Floor Tile is generally located within classrooms at the school. Please refer to Appendix A for the locations and estimated quantities. The 9" Gray Floor Tile generally displays minor damage, non-friable and presents a potential for damage.

Homogeneous Area #3- 9"x 9" Brown Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Brown Floor Tile is located within the Cafeteria at the school. The 9" Brown Floor Tile displays minor damage, non-friable and presents a potential for damage.



Section 1 Inspection Report (continued) Hazard Assessment

Homogeneous Area #4- 9"x 9" Green Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Green Floor Tile is located within the Hallway between Room 6 and 7 at the school. The 9" Green Floor Tile has been painted with in an gray epoxy paint within the Main Hall, Lobby, and Main Office Area. The 9" Green Floor Tile is in generally good condition, is non-friable and presents a potential for damage.

Homogeneous Area #5- 9"x 9" Black Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Black Floor Tile is located on the border area of the classrooms at the school. The 9" Black Floor Tile is in generally good condition, non-friable and presents a potential for damage.

Homogeneous Area #6- Black Floor Tile Mastic

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing Black Floor Tile Mastic is generally located in several areas of the school. Please refer to Appendix A for the locations and estimated quantities. The Black Floor Tile Mastic generally is associated with the gray and tan colored 9" Floor Tile which are covered by Carpet, non-friable and presents a potential for damage.

Homogeneous Area #7- Interior Window Glazing

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing Interior Window Glazing is located on the Interior Partition Windows within the Main Hall at the school. The Interior Window Caulking was observed in generally good condition, non-friable and presents a potential for damage.

Homogeneous Area #8- Cementitious Panels Under Windows

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing Cementitious Panels Under the Windows are generally located on the Perimeter Windows at the school. The Cementitious Panels Under the Windows were observed in generally good condition, non-friable and presents a potential for damage.



SECTION 2

RESPONSE ACTION DETERMINATION



Section 2 Response Action Determination

The following is based on the Decision Tree for Thermal System Insulation Type ACM. The recommended response actions are determined utilizing the "decision tree" approach for Response Action Determination as outlined in EPA's "Asbestos Hazard Emergency Response Act," (AHERA) 40 CFR 763. Because of defined friability factors associated with surfacing and miscellaneous materials versus thermal system insulation, separate decision trees are utilized for each group of materials.

Decision Trees are used to estimate the risk associated with exposure to asbestos in a given homogeneous area, and to recommend certain response actions, which are consistent with regulatory requirements. Eight response actions are recommended for both thermal system insulation and for surfacing/miscellaneous insulation. The response section number given to each homogeneous area indicates a priority for action, the lower the number, the more serious the hazard. Most response actions call for an operations and maintenance program, assuming that this is the least burdensome method which still protects human health and environment. This does not prohibit the building owner from removal of ACM at any time, if that is the preferred response action.

Recommended response actions are based upon the material condition, disturbance, air-flow and the potential for damage. Potential response actions include the following:

- 1. <u>Significantly Damaged Thermal System Insulation:</u> **Response Action 1.** Isolate the area and restrict access to the area. ACM should be removed as soon as possible.
- 2. <u>Damaged Thermal System Insulation with High Disturbance:</u> **Response Action 2.** Continue O&M program and remove the ACM as soon as possible or reduce the potential for disturbance.
- 3. <u>Damaged Thermal System Insulation with Moderate Disturbance and in the Presence of an Air Stream:</u> Response Action 2. Continue with O&M Program and remove the ACM as soon as possible or reduce the potential for disturbance.
- 4. <u>Damaged Thermal System Insulation with Moderate Disturbance:</u> **Response Action 3.** Repair ACM, continue with O&M Program.
- 5. <u>Damaged Thermal System Insulation with Low Disturbance and in the Presence of an Air Stream:</u> **Response Action 4.** Repair ACM, continue with O&M Program.
- 6. <u>Damaged Thermal System Insulation with Low Disturbance:</u> **Response Action 5.** Repair ACM, continue with O&M Program.
- 7. <u>Undamaged Thermal System Insulation with High Disturbance</u>: **Response Action 6.** Continue with O&M Program and take preventative measures to reduce disturbance.
- 8. <u>Undamaged Thermal System Insulation with Moderate Disturbance:</u> **Response Action 7.** Continue with O&M Program and take preventative measure to reduce disturbance.
- 9. <u>Undamaged Thermal System Insulation with Low Disturbance:</u> **Response Action 7.** Continue with O&M Program and take preventative measure to reduce disturbance.



Section 2 Response Action Determination

The following is based on the Decision Tree for Surfacing and Miscellaneous ACM. Recommended response actions are based upon friability, material condition, disturbance, air flow and the potential for damage. Potential response actions include the following:

- 1. <u>Friable Surfacing or Miscellaneous ACM with Significant Damage:</u> **Response Action 1:** Isolate the area and restrict access to the area. Remove the ACM as soon as possible.
- 2. <u>Friable Surfacing or Miscellaneous ACM with Damage and a High Disturbance:</u> **Response Action 2:** Continue with O&M Program and remove ACM as soon as possible or reduce the potential for disturbance.
- 3. <u>Friable Surfacing or Miscellaneous ACM with Damage, Moderate Disturbance and in the Presence of an Air Stream:</u> **Response Action 2:** Continue with O&M Program and remove ACM as soon as possible or reduce the potential for disturbance.
- 4. <u>Friable Surfacing or Miscellaneous ACM with Damage and Moderate Disturbance:</u> **Response Action 3:** Continue with O&M Program and schedule removal when practical and costeffective
- 5. <u>Friable Surfacing or Miscellaneous ACM with Damage, Low Disturbance and in the Presence of an Air Stream:</u> **Response Action 4:** Continue with O&M Program and schedule removal when practical and cost-effective
- 6. <u>Friable Surfacing or Miscellaneous ACM with Damage and Low Disturbance:</u> **Response Action 5.** Continue with O&M Program and schedule removal when practical and costeffective
- 7. <u>Friable Surfacing or Miscellaneous ACM with No Damage and High Disturbance:</u> **Response Action 6.** Take preventative measures to reduce the disturbance.
- 8. <u>Friable Surfacing or Miscellaneous ACM with No Damage and Moderate Disturbance:</u> **Response Action 7.** Take preventative measure to reduce the disturbance.
- 9. <u>Friable Surfacing or Miscellaneous ACM with No Damage and Low Disturbance:</u> **Response Action 8.** Take preventative measure to reduce the disturbance.
- 10. <u>Non-Friable Surfacing or Miscellaneous ACM:</u> **Response Action 8:** Continue with O&M until major renovation or demolition requires removal under the EPA NESHAPS, or until hazard assessment factors change.



Section 2 Response Action Determination (continued)

Advantages and Disadvantage to Abatement Alternatives

The decision trees outlined in AHERA 40 CFR 763 are used to provide the "best" alternative for the specific conditions in each homogeneous area.

Below is a discussion of the alternative approaches to asbestos management in a building.

Long Term Operation & Maintenance Program

Advantages:

- *Low initial cost for implementation
- *Good interim plan
- *An O&M program may be implemented and carried out by in house trained personnel.

Disadvantages:

- *Asbestos remains in the building
- *Condition of the asbestos must be monitored
- *Cost of training and special work procedures may be significant
- *Effectiveness may be limited where control of the building occupants is difficult

Encapsulation

Advantages:

- *Reduces the risk of release of asbestos fibers
- *Initial cost is lower than the cost of asbestos removal
- *Asbestos-containing material may still serve its initial purpose
- *Quick temporary means of repair

Disadvantages:

- *Asbestos remains in the building and encapsulant makes removal more difficult
- *Improper encapsulation may cause the material to delaminate or pull away from substrate
- *Asbestos-containing material must have an O&M program
- *Similar preparation for asbestos removal is required for encapsulation
- *Long term cost may be greater than asbestos removal is periodic reapplication of the encapsulant is required



Section 2 Response Action Determination (continued)

Enclosure

Advantages:

- *Enclosure reduces immediate exposure
- *Initial cost of enclosure is lower that the cost of asbestos removal
- *Asbestos-containing material may still serve its initial purpose
- *Quick temporary means of repair

Disadvantages:

- *Asbestos remains in place and later removal is more difficult
- *If maintenance is required of the systems insulated with asbestos, the asbestos will be exposed
- *An O&M program will have to be implemented for the asbestos-containing material
- *Similar preparation for asbestos removal is required for enclosure

Removal

Advantages

- *Asbestos-containing material is eliminated from the building
- *There is no need for an O&M plan
- *Initial cost is great, but the future costs are eliminated

Disadvantages:

- *Re-insulating, re-fireproofing, or replacement of materials may be required
- *Improper removal may raise levels of airborne fibers higher than background levels
- *The initial cost of removal is very high
- *Areas of the building involved in asbestos removal may not be occupied during removal



SECTION 3 RECOMMENDED RESPONSE ACTIONS



Section 3 Recommended Response Actions

The recommended response actions are for all the homogenous areas found within the school. The response actions are determined utilizing the decision tree approach for Response Action Determination as described in Section 2.

Homogeneous Area #1-Pipe Fitting Insulation

Response Action 3: The pipe fitting insulation identified within the Attic above Library displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the repair or remove the damaged pipe fitting insulation and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

Response Action 7: The remaining pipe fitting insulation located at the school is in generally good condition. Limit the potential for disturbance and continue the O&M Program until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change. It should be noted that asbestos-containing pipe fitting insulation may be located above hard ceilings and/or behind walls. As such, a thorough exploratory inspection should be conducted prior to any renovations that may impact wall or ceiling areas.

Homogeneous Area #2- 9"x 9" Gray Floor Tile

Response Action 8: The 9" x 9" Gray Floor Tile identified within Rooms 1, 2, 3, 5, 6, 7, 9, 12, 16 and 17 displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

Response Action 8: The remaining 9" x 9" Gray Floor Tile located at the school is in generally good condition. Please refer to Appendix A which includes the locations and estimated quantities of the 9" x 9" Gray Floor Tile. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #3- 9"x 9" Brown Floor Tile

Response Action 8: The 9" x 9" Brown Floor Tile identified within the Cafeteria displayed damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.



Section 3 Recommended Response Actions (Continued)

Homogeneous Area #4- 9"x 9" Green Floor Tile

Response Action 8: The 9" x 9" Green Floor Tile located within the Hallway between Room 6 and 7 and the 9" Green Floor Tile has been painted with in a gray epoxy paint within the Main Hall, Lobby, and Main Office Area is in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #5- 9"x 9" Black Floor Tile

Response Action 8: The 9" x 9" Black Floor Tile located throughout the borders of classrooms is in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #6- Black Floor Tile Mastic

Response Action 8: The Black Floor Tile Mastic is associated and covered with the gray, tan, brown and green colored 9" Floor Tile. Continue the O & M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #7- Interior Window Glazing

Response Action 8: The Interior Window Glazing located in Main Hall is in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #8- Cementitious Panels Under Windows

Response Action 8: The Cementitious Panels Under the Windows located Perimeter Window Areas are in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.



SECTION 4

RECORDKEEPING REQUIREMENTS AND RECOMMENDATIONS



Section 4 Recordkeeping Requirements and Recommendations

The AHERA regulations have very specific requirement for the maintenance of records associated with the management of the identified ACBMs in the school. The following is a list of some of the key items that the LEA Designated Person must maintain as part of the package:

- Initial AHERA inspection report and Asbestos Management Plan
- Subsequent 3-year reinspection reports.
- 6-month surveillance reports.
- Documentation for minor and major fiber release episodes. This includes abatement work performed by outside contractors as well as work performed by 16 hour trained maintenance personnel no matter how small.
- Documentation for completion of response actions (i.e. clearance testing, waste shipment records, etc.). This should always include applicable training and certification documentation for the parties involved performing the work activities.
- Labeling of ACBM (friable)
- Yearly notice to parents, teachers and staff.
- Training and medical exams for 16-hour trained personnel. Although training does not require renewal. Medicals are to be performed every year. In addition, 16-hour personnel should be fit tested every six months.
- Two-hour awareness training for staff. Any new workers are required to receive this
 training at start of employment. Training should include specific review of ACBMs in
 the building their working in.

The above items are some of the key items, which need to be incorporated into the plan. The following are some recommendations are how best to maintain for easy access and review by outside parties:

- Maintain an update the three- ring binder for the school. Have a duplicated copy, one for administration office and one for the facilities office.
- Create tab sections in the binder. Each section should contain the information above. This will allow for easy review and update.
- Ensure that for every major and minor fiber release episode, that all documentation is received.
- As you updated your file, ensure the school's is updated.



Section 4

Recordkeeping Requirements and Recommendations (continued)

Also, it is also required that if outside contractors enter building perform work that they review areas where asbestos may be present that will be near their work. Have a log at the school for them to sign that they have read and understand. This will protect the school from liability and ensure outside contactors will not disturb asbestos. Finally, periodically review program internally and with your 16-hour persons to ensure compliance.

The pipe fitting insulation identified within the Attic above Library displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the repair or remove the damaged pipe fitting insulation and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

The 9" x 9" Gray Floor Tile identified within Rooms 1, 2, 3, 5, 6, 7, 9, 12, 16 and 17 displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

The 9" x 9" Brown Floor Tile identified within the Cafeteria displayed damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

Affix appropriate asbestos warning labels to entrance to Crawl Space and Attic Area above Janitor Closet.

VERTEX recommends implementing a periodic cleaning schedule with properly trained staff (i.e. 2-Hour Asbestos Awareness) utilizing HEPA-vacuums and wet mopping.

A required six-month periodic surveillance inspection should be scheduled for October 2021.

VERTEX recommends an ACMs Survey be conducted prior to any renovation activities to comply with the EPA Title 40 CFR Part 61, NESHAPs and the Massachusetts Department of Environmental Protection Regulations.



SECTION 5

ESTIMATED RESOURCES REQUIRED TO COMPLETE THE RESPONSE ACTIONS



Section 5 Estimated Resources Required to Complete the Response Actions

This section contains the estimated resources required to complete the abatement activities of the identified damaged ACBMs. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. The cost estimate below does not include abatement contactor mobilization, abatement design and/or project monitoring services.

Estimated Cost to complete the Response Actions at the Cushing Elementary School in Scituate, Massachusetts:

\$2,500.00*

Cost Estimate Worksheet can be found in Appendix B.

* The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

Abatement Work Plan/Design Specification = \$500-\$2,500.00
Abatement Contactor Mobilization = \$1,500.00-\$2,500.00
Project Monitoring/Clearance Testing = \$520.00-\$600.00/per shift
Transmission Electron Microcopy (TEM) Analysis = \$75.00-\$100.00/sample
Phase Contrast Microscopy (PCM) Analysis = No Charge -\$15.00/sample
Clearance Report Preparation = \$350.00-\$800.00

**The estimated cost provided above does not include costs that may be associated with two-hour asbestos awareness training, OSHA 16-hr Operations and Maintenance Training, and/or the labor to conduct the required six-month surveillance re-inspections. Please refer below for estimated costs that may be associated with the mentioned above:

2-Hour Asbestos Awareness Training = \$75/person
OSHA 16-hr Operations and Maintenance Training = \$300/person
Six-Month Periodic Surveillance Inspection = \$400/inspection



SECTION 6

ESTIMATED RESOURCES REQUIRED FOR THE ABATEMENT OF THE IDENTIFIED ACBMs



Section 6 Estimated Resources Required For Abatement of the Identified ACBMs

This section contains the estimated resources required to perform the removal of identified ACBMS, however EPA recommends the ACBMs to be managed in place if they are not damaged. Alternative abatement costs are estimated using current Abatement Contractor Estimates. These estimates will vary per competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. The cost estimate below is a worst-case scenario if all identified ACBMs were to be removed. The cost estimate below does not include abatement contactor mobilization, abatement design and/or project monitoring services.

Estimated Cost for the Removal of ACBMs from the Cushing Elementary School in Scituate, Massachusetts:

\$340,000.00*

Cost Estimate Worksheet can be found in Appendix C.

- *The estimated cost above does not include removal of potentially concealed ACBMs within the interior of the school. In addition, the estimated cost provided above does <u>not</u> include abatement of potential ACMs on the exterior of the site building and/or beyond the AHERA inspection.
- ** The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

Abatement Work Plan/Design Specification = \$500-\$2,500.00
Abatement Contactor Mobilization = \$1,500.00-\$2,500.00
Project Monitoring/Clearance Testing = \$520.00-\$600.00/per shift
Transmission Electron Microcopy (TEM) Analysis = \$75.00-\$100.00/sample
Phase Contrast Microscopy (PCM) Analysis = No Charge -\$15.00/sample
Clearance Report Preparation = \$350.00-\$800.00



SECTION 7

OPERATIONS AND MAINTENANCE



Section 7 Operations and Maintenance Program

INTRODUCTION

The Scituate Public School District has established an overall asbestos control program that is designed to minimize exposure of all occupants of the school to asbestos fibers located at the Cushing Elementary School. This Operations and Maintenance (O&M) Plan is an integral part of the overall program. It sets guidelines for the proper in-place management of all assumed and identified asbestos-containing building materials (ACBM) located in the building.

This O&M plan contains the following sections:

- A. A description of the duties of the LEA Designated Person (DP).
- B. A procedure for **notifying** workers, tenants, and other visitors where ACBM are located, and stressing the importance of avoiding disturbing the ACBM in any way.
- C. The detailed description of **O&M Activities**, including:
 - 1. **Emergency procedures** for both major and minor episodes of fiber release;
 - 2. **Periodic surveillance** of ACBM, so that any changes in the condition of ACBM can be noted, assessed, and documented; and
 - 3. Detailed descriptions of **work procedures** for both general maintenance and Asbestos Associated Project Workers, which must be used so that workers can avoid or minimize fiber release when performing activities that may disturb ACBM.
- D. A list of **records** that must be kept to document O&M and abatement activities.
- E. **Training requirements** for the DP, and custodial and maintenance staff.

In general, asbestos represents a health hazard **only** if fibers are breathed into the lungs or, in rare cases, are swallowed. Asbestos-containing materials that are non-friable (i.e. cannot be easily broken of crumbled by hand pressure) are not hazardous as long as they are intact and in good condition. Because friable materials can be easily crumbled or crushed, they are more susceptible to airborne fiber release than are non-friable materials.

It is a policy of the Scituate Public School District that untrained employees and outside contractors **DO NOT** handle, touch or otherwise disturb any material that is asbestos or suspected of containing asbestos. A properly qualified and trained individual must handle any material that is, or may contain asbestos. Non-asbestos materials have been and may be identified by the asbestos coordinator using one or more of the following criteria: (1) lab analysis, (2) results of previous lab analysis, (3) product composition labels, (4) receipts, and so forth. At no time will any employee, student, or outside contractor assume a material to be asbestos-free. An inventory of ACBMs identified from the inspection are presented in Appendix A.



Section 7 Operations and Maintenance Program (Continued)

1. DUTIES OF THE ASBESTOS MANAGEMENT PLAN DESIGNATED PERSON

The DP oversees the implementation and management of the O&M plan. Duties of the DP include (1) notifying building staff, workers, and outside contractors where ACBM is located in the building, (2) assigning workers to tasks involving work that may disturb ACBM, (3) ensuring that abatement and O&M activities are conducted by trained qualified personnel, and (4) keeping records of all asbestos-related activities at the property.

The DP must receive training related to asbestos issues (see "Training Requirements" of this plan).

2. NOTIFICATION

The DP shall ensure that building workers, outside contractors, and tenants are notified of the location, quantity, and physical condition of identified and assumed ACBM that they might disturb. Such notification shall be accomplished by written notice, by personal communication, by posting signs at entrances to mechanical areas, and/or by labeling ACBM. By informing occupants of potential hazards in their vicinity, the notification reduces the possibility that occupants will accidentally disturb ACBM. The notification must stress that persons who disturb ACBM may accidentally release asbestos fibers into the air, and that therefore everyone must avoid disturbing ACBM. This notification will assure compliance with Occupational Health and Safety Administration (OSHA) Regulation 29 CFR Part 1926.1101, which regulates asbestos exposure as it relates to construction work (including building maintenance) and with 29 CFR 1910.1001, which regulates asbestos exposure in general industry (including normal housekeeping).

If asbestos-related construction, abatement, of O&M activities is conducted, the DP shall also notify the following persons about the presence, location, and quantity of ACBM:

- A. Employees of the building, such as maintenance and custodial personnel who will work in or adjacent to areas containing ACBM:
- B. Staff who will occupy areas containing ACBM.
- C. Prospective employers applying for or bidding for work if their employees will be expected to work in or adjacent to areas containing ACBM.
- D. Multiple employers occupying a work-site in the building, any of whose employees will be performing work within or adjacent to areas containing ACBM.



Section 7 Operations and Maintenance Program (Continued)

Before conducting any work in the building that has the potential to impact ACBM, contractors will be required to sign the Contractor's Asbestos Notification and Acknowledgment Form. In addition, all contractors and contractor's employees who work on the site will be required to notify the DP of the presence, location, and quantity of newly discovered ACBM within 24 hours (or sooner if ACBM is disturbed) of the discovery. If any building materials are discovered, the asbestos content of which is unknown, the material shall be presumed to contain asbestos, until the results of sampling and analysis prove otherwise. Appropriate sampling of the material shall be conducted by a Massachusetts Department of Labor and Work Force Development Division of Labor Standards accredited asbestos inspector and analyzed at an appropriately licensed asbestos analytical laboratory.

The DP shall ensure that all required warning signs are posted during abatement and O&M activities during which the release of asbestos fibers into the air is possible. Warning signs shall demarcate all regulated areas and shall bear the following information:

DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE
CLOTHING ARE REQUIRED IN THIS AREA

Contractors and in-house personnel who remove ACBM within the site shall label all waste containers that contain ACBM waste in accordance with OSHA and EPA guidelines.

The Massachusetts Department of Environmental Protection (DEP) and the Massachusetts Division of Labor Standards (DLS) will be notified anytime work will impact any quantity of ACBM at the school.

The DP shall ensure that all previously installed ACBM that have been identified in the facility are labeled or identified by signs, as feasible. All ACBM that are friable and accessible, such as TSI located in mechanical areas or below suspended ceilings, will be labeled. Labels shall be attached to or posted in areas where employees, residents, and outside contractors who are likely to be exposed will clearly notice (such as at the entrance to mechanical rooms).

The labels shall bear the following information:

DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST

Posted signs may be used in lieu of labels to indicate the type and location of each ACBM.



Section 7 Operations and Maintenance Program (Continued)

3. OPERATIONS AND MAINTENANCE ACTIVITIES

Operations and maintenance activities include:

- Emergency procedures to be followed in the event of a major or minor episode of fiber release;
- Periodic surveillance of ACBM within at the school building;
- Work procedures associated with planned maintenance activities that may disturb ACBM. Only properly trained personnel under the control and direction of the DP shall conduct operations and maintenance activities.
- Periodic Cleaning Activities

A. Emergency Procedures for Fiber Release Episodes

Fiber release episodes are categorized as *major* (the falling or dislodging of more than 3 square feet or 3 linear feet of friable ACBM), or minor (the falling or dislodging of fewer than 3 square feet or 3 linear feet of friable ACBM)

PROCEDURE FOR MAJOR EPISODE

- 1. Restrict entry into the area.
- 2. Immediately contact the DP
- 3. Post sign to prevent anyone from entering the area except persons necessary to perform the response action.
- 4. Shut off or temporarily modify the air-handling system to prevent the fibers from being distributed to other areas in the building.
- 5. The DP shall contact an accredited designer of abatement to prepare an abatement plan that specifies the appropriate response actions.
- 6. The DP shall ensure that only a Massachusetts Certified Asbestos Abatement Contractor conducts the response actions.



Section 7 Operations and Maintenance Program (Continued)

PROCEDURE FOR MINOR EPISODE

- 1. Thoroughly saturate the debris using all wetting methods necessary.
- 2. Clean the area using wet wiping techniques followed by vacuuming with a specially equipped High Efficiency Particulate Air (HEPA) vacuum.
- 3. Place all debris and all contaminated cleaning supplies (mop heads, rags, etc.) into a leak tight container, such as a 6-mil thick polyethylene waste bag, and seal the container. Place the sealed container into a second 6-mil thick polyethylene bag. If labeled waste bags are not used, apply warning label to outside of each bag used.
- 4. Repair the area of damaged ACBM, as follows:
 - a. Use materials such as asbestos-free spackling, plaster, cement, or insulation; or
 - b. Seal the area with latex paint or an encapsulate; or
 - c. Immediately implement other appropriate response action.

B. Periodic Surveillance

Periodic surveillance of all known and assumed ACBM shall be conducted once every six months. The purpose of the regularly scheduled surveillance is to ensure that any ACBM that are damaged or that have deteriorated are detected in a timely manner. The DP shall use the information from the periodic surveillance in conjunction with ongoing reports from the periodic

surveillance in conjunction with ongoing reports from service workers of changes in the condition of the ACBM to take corrective action.

The periodic surveillance consists of a visual inspection of all known and assumed ACBM. Periodic surveillance shall also include a visual and physical evaluation of ACBM in order to determine the degree of damage and to assess the likelihood of future fiber release. The area in the immediate vicinity shall also be examined for potential loose ACBM debris. The DP shall record the cause of the damage.

Only persons who have received at least the minimum asbestos-awareness training (see "Training Requirements", of this plan) shall conduct the periodic surveillance. The results of the surveillance shall be recorded on the periodic surveillance inspection form.



Section 7 Operations and Maintenance Program (Continued)

C. Work Procedures for General Maintenance Personnel

The following work practices shall be prohibited in all circumstances:

- Drilling holes in ACBM;
- Damaging ACBM while moving furniture or other objects;
- Sweeping of dusting floors, ceilings, moldings, or other surfaces in asbestoscontaminated environments;
- Using an ordinary vacuum to clean up asbestos-containing or asbestos contaminated debris (only vacuums equipped with a HEPA filter should be used);
- Removing potentially contaminated ventilation system filters without thoroughly wetting them; and
- Shaking potentially contaminated ventilation system filters.

D. Periodic Cleaning

The following is a general outline to be utilized for the properly trained personnel to conduct the periodic cleaning activities:

- Utilization of disposable rags to wet wipe of all non-porous horizontal surfaces followed by the use of a HEPA-equipped vacuum. Dry sweeping and/or dusting is not permitted to be used to clean the surfaces.
- The collected debris within the lined HEPA-equipped vacuum and disposal rags should be properly disposed of in a labeled asbestos-waste bag accompanied by a Waste Shipment Record for future disposal at a permitted facility that accepts asbestos waste.
- Document the Name of the individual conducting the work activities, location date and time of cleaning for proper recordkeeping. These records should be included within the AMP for the school.



Section 7 Operations and Maintenance Program (Continued)

4. RECORDKEEPING REQUIREMENTS

The building owner shall maintain the following documentation pertaining to ACBM in the facility:

- All data that are relied upon to demonstrate that suspect ACBM do not in fact contain asbestos.
- All data communicated and received that identify the locations and quantities of ACBM.
- All records associated with abatement projects and O&M activities. These
 documents shall be maintained during the term of ownership. They shall then be
 transferred to successive owners, in accordance with OSHA Regulation 1926.1101
 (n).
- If the owner's employees conduct activities that may potentially cause them to be exposed to asbestos fibers, the owner shall keep the following additional records:
- All employee exposure-monitoring records pursuant to OSHA Regulation 1926.1101(f).
- All information relative to medical surveillance of employees pursuant to OSHA Regulation 1926.1101(m). Medical surveillance shall be required only if:
 - 1. Employees are required to conduct tasks that would result in their exposure to airborne concentrations of asbestos above the OSHA permissible exposure limit (PEL); or
 - 2. If employees conduct asbestos abatement tasks for more than 30 days per year.
- The owner shall maintain all employee-training records for one year beyond the employee's last date of employee's last date of employment.

5. TRAINING REQUIREMENTS

The extent of asbestos training for facility employees depends on the type of asbestos-related activities they will conduct. For most employees who will require training, a two-hour awareness course will be sufficient but necessary. For employees who are involved in activities where exposure to airborne asbestos fibers is likely, a more comprehensive 16-hour training course is necessary.



Section 7 Operations and Maintenance Program (Continued)

AWARENESS TRAINING

The curriculum shall include instruction in the following:

- The location, quantity, and physical condition of all ACBM located in the facility.
- Recognition of damage, deterioration, and delaminating of ACBM.
- The health effects associated with asbestos exposure, including the relationship between smoking and asbestos in producing lung cancer.
- Procedures to be implemented in the event of a minor or major episode of fiber release.
- The requirements for posting signs and affixing labels, and the meaning of the required legends for such signs and labels.

COMPREHENSIVE WORKER TRAINING

The curriculum shall include instruction in the following:

- All awareness training information described above.
- The nature of operations that could result in exposure to asbestos, and the importance
 - of necessary protective controls and of procedures for minimizing exposure, including:
 - engineering controls
 - work practices,
 - respirators,
 - housekeeping procedures,
 - hygiene facilities,
 - protective clothing,
 - decontamination procedures,
 - emergency procedures,
 - waste disposal procedures and any necessary instruction in the use of these controls and procedures.



Section 7

Operations and Maintenance Program (Continued)

- The purpose, proper use, fitting instructions, and limitations of respirators.
- Medical surveillance program requirements
- The contents of the OSHA standard (1926.1101) regarding asbestos in construction.
- Hands-on-training in the use of respiratory protection, other personal protection measures, and work practices.

Detailed procedures for conducting small-scale, short duration abatement activities, as defined in Appendix A to Subpart E to EPA Regulation 40 CFR Part 763.



APPENDIX A

LOCATIONS OF THE ASBESTOS CONTAINING BUILDING MATERIALS



Location	ACBM	Estimated	Class	Cond.	Fri.	HA#
Location	Description Quantity		Ciass	conu.	111.	ПΑπ
	First Floor					
Girls Bathroom by Room 1	Pipe Fitting Insulation (Above Ceiling)	13 Units	TSI	U	U	5
Room 1	9" x 9" Gray Floor Tile	770 ft ²	М	MD (30 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 2	9" x 9" Gray Floor Tile	770 ft ²	М	MD (20 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 3	9" x 9" Gray Floor Tile	770 ft ²	М	MD (16 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 4	9" x 9" Gray Floor Tile	770 ft ²	М	MD (10 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 5	9" x 9" Gray Floor Tile	770 ft ²	М	MD (2 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 6	9" x 9" Gray Floor Tile	770 ft ²	М	MD (6 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5



Location	ACBM	Estimated	Class	Cond	Fri.	HA#
Location	Description Quantity		Class	Cond.	Fri.	па #
Hall Between Rms 6 and 7	9" x 9" Green Floor Tile	256 ft ²	М	G	N	6
	Black Floor Tile Mastic	256 ft ²	М	С	N	5
Room 7	9" x 9" Gray Floor Tile	770 ft ²	М	MD (30 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 8	9" x 9" Gray Floor Tile	770 ft ²	М	G	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 9	9" x 9" Gray Floor Tile	770 ft ²	М	MD (30 ft ²)	N	6
	Black Floor Tile Mastic	770 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Library	9" x 9" Gray Floor Tile (Under Carpet)	2880 ft ²	М	С	N	5
	Black Floor Tile Mastic	2880 ft ²	М	С	N	5
Custodian Attic Area by Library	Pipe Fitting Insulation	27 Units	TSI	MD (2)	Υ	1
Kitchen	Ceramic Floor Tile Adhesive	1920 ft ²	М	С	N	5
Kitchen Office Area	9" x 9" Gray Floor Tile	84 ft ²	М	G	N	5
	Black Floor Tile Mastic	84 ft ²	М	С	Υ	5
	Pipe Fitting Insulation	2 Units	TSI	G	Υ	6
Kitchen Storage/Freezer Room	Pipe Fitting Insulation	17 Units	TSI	G	Υ	5
General Storage	Pipe Fitting Insulation	15 Units	TSI	G	Υ	5
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	3000 ft ²	М	MD (40 ft ²)	N	6
	Black Floor Tile Mastic	3000 ft ²	М	С	N	5



Location	ACBM	Estimated	Class	Cond.	Fri.	HA#
Location	Description	Quantity	Class	Conu.		па #
	First Floor					
Lobby	9" x 9" Green Floor Tile (Painted Gray)	500 ft ²	M	G	N	6
	Black Floor Tile Mastic	500 ft ²	M	С	N	5
Room 21A-Nurse	9" x 9" Green Floor Tile (Painted Gray)	608 ft ²	М	G	N	6
	Black Floor Tile Mastic	608 ft ²	М	С	N	5
	Interior Window Glazing	16 If	M	G	N	5
Room 21B	9" x 9" Green Floor Tile (Painted Gray)	288 ft ²	M	G	N	6
	Black Floor Tile Mastic	288 ft ²	M	С	N	5
	Drywall	150 ft ²	M	G	N	5
	Joint Compound	150 ft ²	M	G	N	5
	Cementitious Panel below Window	24 ft ²	M	G	N	5
Room 21C	9" x 9" Green Floor Tile (Painted Gray)	384 ft ²	M	G	N	5
	Black Floor Tile Mastic	384 ft ²	M	С	N	5
	Drywall	150 ft ²	M	G	N	5
	Joint Compound	150 ft ²	M	G	N	5
	Cementitious Panel below Window	48 ft ²	M	G	N	5
Room 21C Closet	Pipe Fitting Insulation	2 Units	TSI	NF	U	NA
Staff Room	9" x 9" Green Floor Tile (Painted Gray)	672 ft ²	M	G	N	5
	Black Floor Tile Mastic	672 ft ²	M	С	N	5
Faculty Men's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft ²	M	G	N	5
	Black Floor Tile Mastic	30 ft ²	М	С	N	5
Faculty Women's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft ²	М	G	N	5
	Black Floor Tile Mastic	30 ft ²	М	С	N	5
Faculty Room Closet	Pipe Fitting Insulation	3 Units	TSI	G	Υ	6
	Black Floor Tile Mastic	1 Unit	M	G	N	5



Location	ACBM	Estimated	Class	Cond.	Fri.	HA#	
Location	Description Quantity		Class	Condi			
	First Floor						
Room 10	9" x 9" Gray Floor Tile	1026 ft ²	М	G	N	5	
	Black Floor Tile Mastic	1026 ft ²	М	С	N	5	
	Pink Sink Mastic	1 Unit	М	G	N	6	
	Cementitious Panel below Window	90 ft ²	М	G	N	5	
	Interior Window Glazing	20 If	М	G	N	5	
Room 10 Closet	9" x 9" Gray Floor Tile	112 ft ²	М	G	N	5	
	Black Floor Tile Mastic	112 ft ²	М	G	N	5	
	Pipe Fitting Insulation	22 Units	TSI	G	Υ	5	
Room 11	9" x 9" Gray Floor Tile	1026 ft ²	М	G	N	5	
	Black Floor Tile Mastic	1026 ft ²	М	С	N	5	
	Pink Sink Mastic	1 Unit	М	G	N	6	
	Cementitious Panel below Window	90 ft ²	М	G	N	5	
Room 23	9" x 9" Gray Floor Tile	1026 ft ²	М	G	N	5	
	Black Floor Tile Mastic	1026 ft ²	М	С	N	5	
	Pink Sink Mastic	1 Unit	М	G	N	6	
	Cementitious Panel below Window	90 ft ²	М	G	N	5	
Main Hallway	9" x 9" Green Floor Tile (Painted Gray)	1472 ft ²	М	G	N	5	
	Black Floor Tile Mastic	1472 ft ²	М	С	N	5	
	Interior Window Glazing	80 If	М	G	N	5	
Custodian/Gym Storage	Pipe Fitting Insulation	16 Units	TSI	G	Υ	5	
Boys Room by Room 12	Pipe Fitting Insulation	7 Units	TSI	С	Υ	5	
Girls Room by Room 12	Pipe Fitting Insulation	7 Units	TSI	U	Υ	5	
Gym	12" x 12" White Floor Tile	2500 ft ²	М	G	N	5	
	Black Floor Tile Mastic	2500 ft ²	М	С	N	5	



	ACBM	Estimated								
Location	Location Description Quantity		Class	Cond.	Fri.	HA#				
First Floor										
Dhua Ed Office	9" x 9" Black Floor Tile	112 ft ²			N.	_				
Phys Ed. Office			M	G	N	5				
	Black Floor Tile Mastic		M	C (1.2.5;2)	N	5				
Room 12	9" x 9" Gray Floor Tile	900 ft ²	M	MD (10 ft ²)	N	6				
	Black Floor Tile Mastic	900 ft ²	M	С	N	5				
	Pink Sink Mastic	1 Unit	M	G	N	6				
	Cementitious Panel below Window	72 ft ²	M	G	N	5				
Room 13	9" x 9" Gray Floor Tile	900 ft ²	M	G	N	5				
	Black Floor Tile Mastic	900 ft ²	M	С	N	5				
	Pink Sink Mastic	1 Unit	M	G	N	6				
	Cementitious Panel below Window	42 ft ²	M	G	N	5				
Hall Between Rms 13 and 16	9" x 9" Green Floor Tile (Painted Gray)	184 ft ²	M	G	N	5				
	Black Floor Tile Mastic	184 ft ²	M	С	N	5				
	Interior Window Glazing	40 If	M	G	N	5				
Room 16	9" x 9" Gray Floor Tile	900 ft ²	M	MD (10 ft ²)	N	6				
	Black Floor Tile Mastic	900 ft ²	М	С	N	5				
	Pink Sink Mastic	1 Unit	M	G	N	6				
	Cementitious Panel below Window	42 ft ²	M	G	N	5				
Room 17	9" x 9" Gray Floor Tile	900 ft ²	M	MD (4 ft ²)	N	6				
	Black Floor Tile Mastic	900 ft ²	M	С	N	5				
	Pink Sink Mastic	1 Unit	M	G	N	6				
	Cementitious Panel below Window	42 ft ²	M	G	N	5				
Room 18	9" x 9" Gray Floor Tile	900 ft ²	М	G	N	5				
	Black Floor Tile Mastic	900 ft ²	М	С	N	5				
	Pink Sink Mastic	1 Unit	М	G	N	6				
	Cementitious Panel below Window	42 ft ²	М	G	N	5				



Location	ACBM	Estimated	Class	Cond.	Fri.	HA#
	Description	Quantity				
	First Floor		<u> </u>			
Room 19	9" x 9" Gray Floor Tile	900 ft ²	М	G	N	5
	Black Floor Tile Mastic	900 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 20	9" x 9" Gray Floor Tile	900 ft ²	М	G	N	5
	Black Floor Tile Mastic	900 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Hall Between Rms 20 and 21	9" x 9" Green Floor Tile (Painted Gray)	240 ft ²	М	G	N	5
	Black Floor Tile Mastic	240 ft ²	М	С	N	5
Room 21	9" x 9" Gray Floor Tile	900 ft ²	М	G	N	5
	Black Floor Tile Mastic	900 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Room 22	9" x 9" Gray Floor Tile	900 ft ²	М	G	N	5
	Black Floor Tile Mastic	900 ft ²	М	С	N	5
	Pink Sink Mastic	1 Unit	М	G	N	6
	Cementitious Panel below Window	42 ft ²	М	G	N	5
Crawl Space off Boiler Room	Pipe Fitting Insulation	360 Units	TSI	G	Υ	5

Notes:

ft² = Square Foot Cond. = Condition U = Unknown NA = Not Accessible

 $\begin{array}{lll} \mbox{If = Linear Foot} & \mbox{G = Good} & \mbox{C = Covered} \\ \mbox{Unit = Each} & \mbox{MD = Minor Damage} & \mbox{M = Miscellaneous} \\ \mbox{Y= Yes} & \mbox{D = Damaged} & \mbox{S= Surfacing} \\ \end{array}$

N = No Fri. = Friable TSI = Thermal System Insulation



HA # = Homogenous Area Hazard Assessment Category

- 1 = Damaged/Significantly Damaged Thermal System Insulation
- 2 = Damaged Friable Surfacing ACBM
- 3 = Significantly Damaged Friable Surfacing ACBM
- 4 = Damaged or Significantly Damaged Friable Miscellaneous ACBM
- 5 = ACBM with Potential for Damage
- 6 = ACBM with Potential for Significant Damage
- 7 = Any Remaining Friable ACBM or Friable Suspected ACBM
- NA = Not Applicable



APPENDIX B

ESTIMATED RESOURCES REQUIRED TO COMPLETE THE RESPONSE ACTIONS



Appendix B AHERA Inspection May 2021 Estimated Resources to Complete Response Actions Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Recommended Response Action	Estimated Cost	Recommended Completion Date of Response Action	Date of Completed Response Action
		First F	loor			
Room 1	9" x 9" Gray Floor Tile	30 ft ²	Repair	\$270.00	July 2021	
Room 2	9" x 9" Gray Floor Tile	20 ft ²	Repair	\$180.00	July 2021	
Room 3	9" x 9" Gray Floor Tile	16 ft ²	Repair	\$144.00	July 2021	
Room 4	9" x 9" Gray Floor Tile	10 ft ²	Repair	\$90.00	July 2021	
Room 5	9" x 9" Gray Floor Tile	2 ft ²	Repair	\$18.00	July 2021	
Room 6	9" x 9" Gray Floor Tile	6 ft ²	Repair	\$54.00	July 2021	
Room 7	9" x 9" Gray Floor Tile	30 ft ²	Repair	\$270.00	July 2021	
Room 9	9" x 9" Gray Floor Tile	30 ft ²	Repair	\$270.00	July 2021	
Custodian Attic Area by Library	Pipe Fitting Insulation	2 Units	Repair	\$200.00	July 2021	
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	40 ft ²	Repair	\$360.00	July 2021	
Room 12	9" x 9" Gray Floor Tile	10 ft ²	Repair	\$90.00	July 2021	
Room 16	9" x 9" Gray Floor Tile	10 ft ²	Repair	\$90.00	July 2021	
Room 17	9" x 9" Gray Floor Tile	4 ft ²	Repair	\$36.00	July 2021	

Notes:

ft² = Square Foot

Unit = Each

Abatement Work Plan/Design Specification = \$500-\$2,500.00 Abatement Contactor Mobilization = \$1,500.00-\$2,500.00



^{*} The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

Cushing Elementary School Response Actions One Aberdeen Drive Project # 69699

Project Monitoring/Clearance Testing = \$520.00-\$600.00/per shift Transmission Electron Microcopy (TEM) Analysis = \$75.00-\$100.00/sample Phase Contrast Microscopy (PCM) Analysis = No Charge -\$15.00/sample Clearance Report Preparation = \$350.00-\$800.00

**The estimated cost provided above does not include costs that may be associated with two-hour asbestos awareness training, OSHA 16-hr Operations and Maintenance Training, and/or the labor to conduct the required six-month surveillance re-inspections. Please refer below for estimated costs that may be associated with the mentioned above:

Page 2

2-Hour Asbestos Awareness Training = \$75/person OSHA 16-hr Operations and Maintenance Training = \$300/person Six-Month Periodic Surveillance Inspection = \$400/inspection



APPENDIX C

ESTIMATED RESOURCES REQUIRED FOR THE ABATEMENT OF THE IDENTIFIED ACBMs



Location	ACBM Description		nated	Estimated Cost					
Description Quantity First Floor									
Girls Bathroom by Room 1	Pipe Fitting Insulation (Above Ceiling)	13	Units	\$325.00					
Room 1	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00					
	Black Floor Tile Mastic	770	ft ²	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Pink Sink Mastic	1	Unit	\$50.00					
	Cementitious Panel below Window	42	ft ²	\$420.00					
Room 2	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00					
	Black Floor Tile Mastic	770	ft ²						
	Pink Sink Mastic	1	Unit	\$50.00					
	Cementitious Panel below Window	42	ft ²	\$420.00					
Room 3	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00					
	Black Floor Tile Mastic	770	ft ²						
	Pink Sink Mastic	1	Unit	\$50.00					
	Cementitious Panel below Window	42	ft ²	\$420.00					
Room 4	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00					
	Black Floor Tile Mastic	770	ft ²						
	Pink Sink Mastic	1	Unit	\$50.00					
	Cementitious Panel below Window	42	ft ²	\$420.00					
Room 5	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00					
	Black Floor Tile Mastic	770	ft ²						
	Pink Sink Mastic	1	Unit	\$50.00					
	Cementitious Panel below Window	42	ft ²	\$420.00					
Room 6	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00					
	Black Floor Tile Mastic	770	ft ²						
	Pink Sink Mastic	1	Unit	\$50.00					
	Cementitious Panel below Window	42	ft ²	\$420.00					



Location	ACBM	Estin	nated	Fatimated Coat
Location	Description	Qua	ntity	Estimated Cost
Hall Between Rms 6 and 7	9" x 9" Green Floor Tile	256	ft ²	\$2,304.00
	Black Floor Tile Mastic	256	ft ²	
Room 7	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00
	Black Floor Tile Mastic	770	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Room 8	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00
	Black Floor Tile Mastic	770	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Room 9	9" x 9" Gray Floor Tile	770	ft ²	\$6,930.00
	Black Floor Tile Mastic	770	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Library	9" x 9" Gray Floor Tile (Under Carpet)	2880	ft ²	\$25,920.00
	Black Floor Tile Mastic	2880	ft ²	\$0.00
Custodian Attic Area by Library	Pipe Fitting Insulation	27	Units	\$675.00
Kitchen	Ceramic Floor Tile Adhesive	1920	ft ²	\$19,200.00
Kitchen Office Area	9" x 9" Gray Floor Tile	84	ft ²	\$756.00
	Black Floor Tile Mastic	84	ft ²	
	Pipe Fitting Insulation	2	Units	\$50.00
Kitchen Storage/Freezer Room	Pipe Fitting Insulation	17	Units	\$425.00
General Storage	Pipe Fitting Insulation	15	Units	\$375.00
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	3000	ft ²	\$27,000.00
	Black Floor Tile Mastic	3000	ft ²	



	ACBM	Estima	ted	F. 1
Location	Description	Quant	ity	Estimated Cost
Lobby	9" x 9" Green Floor Tile (Painted Gray)	500 f	t ²	\$4,500.00
	Black Floor Tile Mastic	500 f	t ²	
Room 21A-Nurse	9" x 9" Green Floor Tile (Painted Gray)	608 f	t ²	\$5,472.00
	Black Floor Tile Mastic	608 f	t ²	
	Interior Window Glazing	16 l	f	\$160.00
Room 21B	9" x 9" Green Floor Tile (Painted Gray)	288 f	t ²	\$2,592.00
	Black Floor Tile Mastic	288 f	t ²	
	Drywall	150 f	t ²	\$900.00
	Joint Compound	150 f	t ²	
	Cementitious Panel below Window	24 f	t ²	\$240.00
Room 21C	9" x 9" Green Floor Tile (Painted Gray)	384 f	t ²	\$3,456.00
	Black Floor Tile Mastic	384 f	t ²	
	Drywall	150 f	t ²	\$900.00
	Joint Compound	150 f	t ²	
	Cementitious Panel below Window	48 f	t ²	\$480.00
Room 21C Closet	Pipe Fitting Insulation	2 L	Jnits	\$50.00
Staff Room	9" x 9" Green Floor Tile (Painted Gray)	672 f	t ²	\$6,048.00
	Black Floor Tile Mastic	672 f	t ²	
Faculty Men's Room	9" x 9" Green Floor Tile (Painted Gray)	30 f	t ²	\$270.00
	Black Floor Tile Mastic	30 f	t ²	\$0.00
Faculty Women's Room	9" x 9" Green Floor Tile (Painted Gray)	30 f	t ²	\$270.00
	Black Floor Tile Mastic	30 f	t ²	
Faculty Room Closet	Pipe Fitting Insulation	3 L	Jnits	\$75.00
	Black Floor Tile Mastic	30 f	t ²	\$270.00



Location	ACBM	Estin	nated	Estimated Cost					
Location	Description	Qua	ntity	Estimated cost					
First Floor									
Room 10	9" x 9" Gray Floor Tile	1026	ft ²	\$9,234.00					
	Black Floor Tile Mastic	1026	ft ²						
	Pink Sink Mastic	1	Unit	\$50.00					
	Cementitious Panel below Window	90	ft ²	\$900.00					
	Interior Window Glazing	20	lf	\$200.00					
Room 10 Closet	9" x 9" Gray Floor Tile	112	ft ²	\$1,008.00					
	Black Floor Tile Mastic	112	ft ²	\$550.00					
	Pipe Fitting Insulation	22	Units	\$9,234.00					
Room 11	9" x 9" Gray Floor Tile	1026	ft ²						
	Black Floor Tile Mastic	1026	ft ²	\$50.00					
	Pink Sink Mastic	1	Unit	\$900.00					
	Cementitious Panel below Window	90	ft ²	\$9,234.00					
Room 23	9" x 9" Gray Floor Tile	1026	ft ²						
	Black Floor Tile Mastic	1026	ft ²	\$50.00					
	Pink Sink Mastic	1	Unit	\$900.00					
	Cementitious Panel below Window	90	ft ²	\$13,248.00					
Main Hallway	9" x 9" Green Floor Tile (Painted Gray)	1472	ft ²						
	Black Floor Tile Mastic	1472	ft ²	\$800.00					
	Interior Window Glazing	80	lf	\$400.00					
Custodian/Gym Storage	Pipe Fitting Insulation	16	Units	\$1,296.00					
Boys Room by Room 12	Pipe Fitting Insulation	7	Units	\$175.00					
Girls Room by Room 12	Pipe Fitting Insulation	7	Units	\$175.00					
Gym	12" x 12" White Floor Tile	2500	ft ²	\$22,500.00					
•	Black Floor Tile Mastic	2500	ft ²	-					



Location	ACBM	Estim	nated	Fatimental Coat
Location	Description	Quai	ntity	Estimated Cost
	First Floor			
Phys Ed. Office	9" x 9" Black Floor Tile	112	ft ²	\$1,008.00
	Black Floor Tile Mastic	112	ft ²	
Room 12	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	72	ft ²	\$720.00
Room 13	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Hall Between Rms 13 and 16	9" x 9" Green Floor Tile (Painted Gray)	184	ft ²	\$1,656.00
	Black Floor Tile Mastic	184	ft ²	
	Interior Window Glazing	40	lf	\$400.00
Room 16	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Room 17	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Room 18	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00



Location	ACBM Description	Estim Qua		Estimated Cost
	First Floor			
Room 19	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Room 20	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Hall Between Rms 20 and 21	9" x 9" Green Floor Tile (Painted Gray)	240	ft ²	\$2,160.00
	Black Floor Tile Mastic	240	ft ²	
Room 21	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Room 22	9" x 9" Gray Floor Tile	900	ft ²	\$8,100.00
	Black Floor Tile Mastic	900	ft ²	
	Pink Sink Mastic	1	Unit	\$50.00
	Cementitious Panel below Window	42	ft ²	\$420.00
Crawl Space off Boiler Room	Pipe Fitting Insulation	360	Units	\$9,000.00

Notes: ft² = Square Foot If = Linear Foot Unit = Each



Cushing Elementary School

One Aberdeen Drive

Page 7

Project # 69699

* The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. The estimated cost for floor tile mastic removal is included within the total cost for the removal of the associated floor tile. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

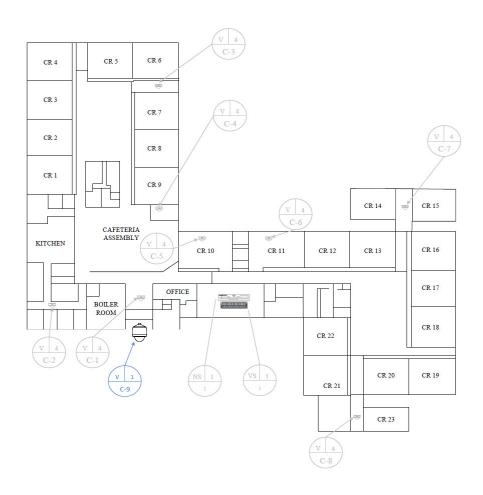
Abatement Work Plan/Design Specification = \$500-\$2,500.00
Abatement Contactor Mobilization = \$1,500.00-\$2,500.00
Project Monitoring/Clearance Testing = \$520.00-\$600.00/per shift
Transmission Electron Microcopy (TEM) Analysis = \$75.00-\$100.00/sample
Phase Contrast Microscopy (PCM) Analysis = No Charge -\$15.00/sample
Clearance Report Preparation = \$350.00-\$800.00



APPENDIX D

SCHEMATIC





APPENDIX E

LABORATORY RESULTS





EMSL Order: 132102818 Customer ID: VERT51

Customer PO: Project ID:

Attention: Jason Mohre Phone: (617) 939-3823
The Vertex Companies, Inc. Fax: (781) 335-3543

398 Libbey Parkway Received Date: 04/20/2021 12:55 PM

Weymouth, MA 02189 Analysis Date: 04/23/2021 Collected Date: 04/20/2021

Project: 69699 - Scituate Public Schools; Cushing Elementary; 1 Aberdeen Drive

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

			Non-Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
B-0420-01A	Cushing Elementary; 1st Floor; Main Hall -	Tan/White Fibrous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
132102818-0001	1'X1' Ceiling Tile (Fissure)	Homogeneous			
B-0420-01B	Cushing Elementary; 1st Floor; Hall 20-21 -	Tan/White Fibrous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
132102818-0002	1'X1' Ceiling Tile (Fissure)	Homogeneous			
B-0420-02A	Cushing Elementary; 1st Floor; Hall 20-21 -	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132102818-0003	Brown Glue Daubs	Homogeneous			
B-0420-02B	Cushing Elementary; 1st Floor; Hall 13-16 -	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132102818-0004	Brown Glue Daubs	Homogeneous			
B-0420-02C	Cushing Elementary; 1st Floor; Storage 4-5	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
132102818-0005	- Brown Glue Daubs	Homogeneous			

Analyst(s)	Jul 1. Su
evin Pine (5)	Steve Grise, Laboratory Manager
	or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, ME LB-0039

Initial report from: 04/23/2021 15:09:36

OrderID: 132102818

VERTEX

132102818

Bulk Sampling Log Form

Project Name:	SPS-	Cushina	Elenentra	1 Aberden A Project #:	69699	Page:	10+1
roject realine.			- in the court	/// roject m.	4,011	8	

Client: Scihoste Public Schools Date: 4/20/21 Inspector: J. Marc

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fr
Elementry	1	Holl	1x1' cesty Tile (Assure)	B-420-01A		/-
		HS11 20-21	7	13-420-013	x	-/
		1	Brown Glue Doubs	B-420-02A		
		Hs.1 13-16		B-420-02B	e de	1
1		Storage 4-5	1	B-420-02C		/
						/
						/
						/
						/
						/

Delivered By	Date	#Samples	Received By	Date	Time	# Samples
1	4/20/21	5				-
		*			-	

72-W TAT
PLM ASbestos Bulk
Positive Stop

REC'D KHY 1255 WY EMSL-BOSTON APR 2 0 2021 CLIENT:

SCITUATE PUBLIC SCHOOLS

600 CHIEF JUSTICE CUSHING HIGHWAY

SCITUATE, MA 02066

LOCATION: CUSHING ELEMENTARY SCHOOL

ONE ABERDEEN DRIVE SCITUATE, MASSACHUSETTS

PROJECT:

13.00298 - 391970

DATE RECEIVED: 08/19/13

ANALYZED:

08/20/13 TO 08/21/13

COLLECTED BY: COVINO

COLLECTED:

08/14/13 TO 08/16/13

ANALYTICAL RESULTS OF BULK SAMPLES

LAB ID_	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
391970	FIELD ID: 1A	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	Y	FIBROUS GLASS	20 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	25 %
			NONFIBROUS MATERIAL	55 %
391971	FIELD ID: 1B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	N	FIBROUS GLASS	45 %
	LOCATION: UNDERGROUND PIPE CHASE		NONFIBROUS MATERIAL	55 %
391972	FIELD ID: 1C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	N	FIBROUS GLASS	45 %
	LOCATION: UNDERGROUND PIPE CHASE		NONFIBROUS MATERIAL	55 %
391973	FIELD ID: 2A	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 1" PIPE FITTING INSULATION	Y	FIBROUS GLASS	30 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	15 %
			NONFIBROUS MATERIAL	55 %
391974	FIELD ID: 2B	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 1" PIPE FITTING INSULATION	Y	FIBROUS GLASS	30 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	15 %
			NONFIBROUS MATERIAL	55 %
391975	FIELD ID: 2C	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 1" PIPE FITTING INSULATION	Y	FIBROUS GLASS	35 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	10 %
			NONFIBROUS MATERIAL	55 %



PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

LAB ID	SAMPLE D	ESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
391976	FIELD ID:	2D	GY	ASBESTOS - CHRYSOTILE	02 9
	MATERIAL	1" PIPE FITTING INSULATION	N	FIBROUS GLASS	43 %
	LOCATION	BOILER STORAGE ROOM		NONFIBROUS MATERIAL	55 %
		àn a de la company			
3919//	FIELD ID:	2E	N/A	SAMPLE NOT ANALYZED	
		I" PIPE FITTING INSULATION GIRLS' RESTROOM, ADJACENT ROOM I	N/A		
391978	FIELD ID:	2F	N/A	SAMPLE NOT ANALYZED	
		I" PIPE FITTING INSULATION	N/A		
441	LOCATION:	CUSTODIAN ROOM, ATTIC, BY LIBRARY			
派 3 9197 9	FIELD ID:	2G	N/A	SAMPLE NOT ANALYZED	
	MATERIAL:	I" PIPE FITTING INSULATION	N/A		
	LOCATION:	ROOM 10, CLOSET			
391980	FIELD ID:	3A	GY	NO ASBESTOS DETECTED	
,,,,,,,	MATERIAL:	ROUGH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	COAT LOCATION:	BOILER ROOM			
391981	FIELD ID:	3B	GY	NO ASBESTOS DETECTED	
	MATERIAL:	ROUGH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	BOILER ROOM			
91982	FIELD ID:	3C	GY	NO ASBESTOS DETECTED	
	MATERIAL: COAT	ROUGH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	BOILER ROOM			
91983	FIELD ID:	3D	GY	NO ASBESTOS DETECTED	
	MATERIAL: COAT	ROUGH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	BOYS' ROOM, ADJACENT ROOM 12			
91984	FIELD ID:	3E	GY	NO ASBESTOS DETECTED	
	MATERIAL: COAT	ROUGH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	BOYS' ROOM, ADJACENT ROOM 12			



REPORT ID: 10740

PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

LAB ID	SAMPLE DE	SCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
301085	FIELD ID:	4A	WH/TN	NO ASBESTOS DETECTED	
371703		ROUGH FINISH PLASTER CEILING, SKIM	Υ	NONFIBROUS MATERIAL	100 %
		BOILER ROOM			
201086	FIELD ID:	4B	WH/TN	NO ASBESTOS DETECTED	
391980		ROUGH FINISH PLASTER CEILING, SKIM	Y	NONFIBROUS MATERIAL	100 %
		BOILER ROOM			
201007	FIELD ID:	4C	WH/TN	NO ASBESTOS DETECTED	
371707		ROUGH FINISH PLASTER CEILING, SKIM	Y	NONFIBROUS MATERIAL	100 %
		BOILER ROOM			
201000	FIELD ID:	4D	WH	NO ASBESTOS DETECTED	
391900		ROUGH FINISH PLASTER CEILING, SKIM	N	NONFIBROUS MATERIAL	100 9
		BOYS' ROOM, ADJACENT ROOM 12			
391989	FIELD ID:	4E	WH	NO ASBESTOS DETECTED	
		ROUGH FINISH PLASTER CEILING, SKIM	N	NONFIBROUS MATERIAL	100 9
	LOCATION:	BOYS' ROOM, ADJACENT ROOM 12		34.	
391990	FIELD ID:	5A	GY/TN	NO ASBESTOS DETECTED	
371770		DUCT VIBRATION CLOTH	N	SYNTHETIC	90 9
		BOILER ROOM		NONFIBROUS MATERIAL	10 5
391991	FIELD ID:	5B	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL:	DUCT VIBRATION CLOTH	N	SYNTHETIC	90 9
	LOCATION:	BOILER ROOM		NONFIBROUS MATERIAL	10 4
			Talauli	NO ACRECTOS DETECTED	
391992	FIELD ID:	6A	TN/WH	NO ASBESTOS DETECTED FIBROUS GLASS	90.9
		CANVAS COVERING ON BOILER BREECHING BOILER ROOM	1	NONFIBROUS MATERIAL	10 9



REPORT ID: 10740

PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

LAB ID	SAMPLE DE	SCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
391993	FIELD ID:	6B	MU	NO ASBESTOS DETECTED	
71773		CANVAS COVERING ON BOILER BREECHING	Y	FIBROUS GLASS	75 %
		BOILER ROOM		NONFIBROUS MATERIAL	25 %
391994	FIELD ID:	6C	MU	NO ASBESTOS DETECTED	
,,,,,,		CANVAS COVERING ON BOILER BREECHING	Υ	FIBROUS GLASS	75 %
		BOILER ROOM		NONFIBROUS MATERIAL	25 %
391995	FIELD ID:	7A	GY	NO ASBESTOS DETECTED	
,,,,,,	MATERIAL: COAT	SMOOTH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	STORAGE ROOM, @ BOILER ROOM			
201006	FIELD ID:	7B	GY	NO ASBESTOS DETECTED	
391996		SMOOTH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	KITCHEN, SMALL STORAGE ROOM			
201007	FIELD ID:	7C	GY	NO ASBESTOS DETECTED	
391997		SMOOTH FINISH PLASTER CEILING, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	KITCHEN, SMALL STORAGE ROOM			
391998	FIELD ID:	8A	WH	NO ASBESTOS DETECTED	***
	MATERIAL: COAT	SMOOTH FINISH PLASTER CEILING, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	KITCHEN, SMALL STORAGE ROOM			
301000	FIELD ID:	8B	WH	NO ASBESTOS DETECTED	
371777		SMOOTH FINISH PLASTER CEILING, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	STORAGE ROOM, @ BOILER ROOM			
392000	FIELD ID:	8C	WH	NO ASBESTOS DETECTED	
572000		SMOOTH FINISH PLASTER CEILING, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	KITCHEN, SMALL STORAGE ROOM		•	



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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392001	FIELD ID: 9A	WH	ASBESTOS - CHRYSOTILE	30
	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE	N	ASBESTOS - AMOSITE	15
	INSULATION		NONFIBROUS MATERIAL	55
	LOCATION: HALL, BY GENERATOR ROOM			
392002	FIELD ID; 9B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION	N/A		
	LOCATION: HALL, BY GENERATOR ROOM			
392003	FIELD ID: 9C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION	N/A		
- 15.0°	LOCATION: KITCHEN, STORAGE ROOM			
	FIELD ID: 10A	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: TECTUM 4' X 8' CEILING PANELS	Y	CELLULOSE	80
	LOCATION: HALL, BY ELECTRIC ROOM		NONFIBROUS MATERIAL	20
392005	FIELD ID: 10B	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: TECTUM 4' X 8' CEILING PANELS	Y	CELLULOSE	80
	LOCATION: LIBRARY		NONFIBROUS MATERIAL	20
, late	<u> </u>		20 8	
392006	FIELD ID: 10C	TN/WH	NO ASBESTOS DETECTED	0.0
	MATERIAL: TECTUM 4' X 8' CEILING PANELS	Y	CELLULOSE	80
	LOCATION: ROOM 10		NONFIBROUS MATERIAL	20
392007	FIELD ID: 11A	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: WALK-IN COOLERS, CEILING INSULATION	Y	SYNTHETIC	05
	LOCATION: KITCHEN, FREEZER		NONFIBROUS MATERIAL	95
202000	FIELD ID: 11B	WH/BR	NO ASBESTOS DETECTED	
392008		WH/BK Y	SYNTHETIC	05
	MATERIAL: WALK-IN COOLERS, CEILING INSULATION LOCATION: KITCHEN, REFRIGERATOR	1	NONFIBROUS MATERIAL	95
	DOCATION, RECEIDED, RECREDENTION		MONLIDICOOS MATERIAL	93



LAB ID	SAMPLE DE	SCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392009	FIELD ID:	12A	GY	NO ASBESTOS DETECTED	
		WALK-IN COOLERS, WALL INSULATION	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	KITCHEN, FREEZER			
392010	FIELD ID:	12B	GY	NO ASBESTOS DETECTED	
		WALK-IN COOLERS, WALL INSULATION KITCHEN, REFRIGERATOR	N	NONFIBROUS MATERIAL	100 %
392011	FIELD ID:	13A	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL:	I' X I' PINHOLE SPLINE CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION:	KITCHEN, HALLWAY		CELLULOSE	40 %
				NONFIBROUS MATERIAL	20 %
. stine		130	CVAVII	NO ASBESTOS DETECTED	
392012	FIELD ID:	13B I' X I' PINHOLE SPLINE CEILING TILE	GY/WH N	FIBROUS GLASS	40 %
	LOCATION:		14	CELLULOSE	40 %
	LOCATION.	KITCHEN		NONFIBROUS MATERIAL	20 %
9 	FIELD ID:	13C	GY/WH	NO ASBESTOS DETECTED	
39 2013		1' X 1' PINHOLE SPLINE CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION:		15	CELLULOSE	40 %
				NONFIBROUS MATERIAL	20 %
5			CVIVII	NO ACRESTOS DETECTED	
392014		14A	GY/WH N	NO ASBESTOS DETECTED FIBROUS GLASS	50 %
		I' X I' FISSURED SPLINE CEILING TILE KITCHEN, OFFICE	IA	CELLULOSE	35 %
	LOCATION.	KITCHEN, OF I'CE		NONFIBROUS MATERIAL	15 %
202015	FIELD ID:	14B	GY/WH	NO ASBESTOS DETECTED	
J74VIJ		1' X 1' FISSURED SPLINE CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION:			CELLULOSE	45 %
				NONFIBROUS MATERIAL	15 %
				51	

REPORT ID: 10740 PROJECT: 13,00298 - 391970 SAMPLE LAB IDs: 391970 TO 392103, NO. OF SAMPLES: 134

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LAB ID	SAMPLE DI	ESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392016	FIELD ID:	14C	GY/WH	NO ASBESTOS DETECTED	
•,====		I' X I' FISSURED SPLINE CEILING TILE	N	FIBROUS GLASS	50 9
	LOCATION:	GIRLS' ROOM, @ ROOM 12		CELLULOSE	35 %
				NONFIBROUS MATERIAL	15 9
392017	FIELD ID:	15A	GY	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL	9" X 9" GRAY FLOOR TILE	N	NONFIBROUS MATERIAL	88 9
	LOCATION:	KITCHEN, OFFICE			
392018	FIELD ID:	15B	N/A	SAMPLE NOT ANALYZED	
,,,		9" X 9" GRAY FLOOR TILE	N/A	25.	
	LOCATION:				
3	0.00		200	E CANADA DA LOCA ANALA MEDIDA	
392019		15C	N/A	SAMPLE NOT ANALYZED	
		9" X 9" GRAY FLOOR TILE	N/A		
	LOCATION:	ROOM 8			
392020	FIELD ID:	16A	BK	ASBESTOS - CHRYSOTILE	12 9
		9" X 9" GRAY FLOOR TILE MASTIC KITCHEN, OFFICE	N	NONFIBROUS MATERIAL	88 9
202021	FIELD ID:	16B	N/A	SAMPLE NOT ANALYZED	-6-
392021		9" X 9" GRAY FLOOR TILE MASTIC	N/A	SAMI EL NOT ANALTZED	
	LOCATION:		N/A		
0.	LOCATION	ROOM I			
392022	FIELD ID:	16C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL:	9" X 9" GRAY FLOOR TILE MASTIC	N/A		
	LOCATION:	ROOM 8			
392023	FIELD ID:	17A	GY	NO ASBESTOS DETECTED	
	MATERIAL:	4" WALL BASE	N	NONFIBROUS MATERIAL	100
	LOCATION:	KITCHEN, OFFICE			
202024	FIELD ID:	17B	BK	NO ASBESTOS DETECTED	
J7ZUZ4		4" WALL BASE	N.	NONFIBROUS MATERIAL	100 9
		ROOM 8	,,	HOM IDROOD MATERIAL	100

COVINO ENVIRONMENTAL ASSOCIATES INC

REPORT ID: 10740

PROJECT: 13.00298 + 391970 SAMPLE LAB IDs: 391970 TO 392103, NO. OF SAMPLES: 134

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392025	FIELD ID: 17C	BK	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE	N	NONFIBROUS MATERIAL	100 9
	LOCATION: ROOM 12			
392026	FIELD ID: 18A	BR	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, OFFICE			
392027	FIELD ID: 18B	BR	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE ADHESIVE	N	NONFIBROUS MATERIAL	100 9
	LOCATION: ROOM 8			
<i>்</i> 392028	FIELD ID: 18C	BR	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE ADHESIVE	N	NONFIBROUS MATERIAL	100 9
	LOCATION: ROOM 12			
392029	FIELD ID: 19A	PI/WH	NO ASBESTOS DETECTED	
	MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	40 9
	LOCATION: CAFETERIA		CELLULOSE	40 9
			NONFIBROUS MATERIAL	20 %
392030	FIELD ID: 19B	PI/WH	NO ASBESTOS DETECTED	
372030	MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	40 9
	LOCATION: CAFETERIA		CELLULOSE	40 9
			NONFIBROUS MATERIAL	20 9
202021	FIELD ID. 10C	PI/WH	NO ASBESTOS DETECTED	
392031	FIELD ID: 19C MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: CAFETERIA	IN	CELLULOSE	40 9
	boomon or brown		NONFIBROUS MATERIAL	20 9
392032	FIELD ID: 20A	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE	N	NONFIBROUS MATERIAL	100 9
	LOCATION: HALL, @ CAFETERIA			



PROJECT: 13,00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392033	FIELD ID: 20B	GY	NO ASBESTOS DETECTED	
3,2033	MATERIAL: PLASTER WALL, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392034	FIELD ID: 20C	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392035	FIELD ID: 21A	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392036	FIELD ID: 21B	WH	NO ASBESTOS DETECTED	
372030	MATERIAL: PLASTER WALL, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
en ac		war	NO ASBESTOS DETECTED	
392037	FIELD ID: 21C	WH N	NONFIBROUS MATERIAL	100 %
	MATERIAL: PLASTER WALL, SKIM LOCATION: HALL, @ CAFETERIA	N	NONTIBROUS MATERIAL	100 /
	s gif ii		ACRECTOS CURVEOTUE	10 %
392038	FIELD ID: 22A	TN	ASBESTOS - CHRYSOTILE	90 %
	MATERIAL: 9" X 9" BROWN FLOOR TILE LOCATION: CAFETERIA	N	NONFIBROUS MATERIAL	70 7
			7	
392039	FIELD ID: 22B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BROWN FLOOR TILE	N/A		
	LOCATION: ROOM 21A			
392040	FIELD ID: 22C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BROWN FLOOR TILE	N/A		
	LOCATION: ROOM 21A			
392041	FIELD ID: 23A	ВК	ASBESTOS - CHRYSOTILE	10 %
JJ=011	MATERIAL: 9" X 9" BROWN FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	90 %
	LOCATION: CAFETERIA			



REPORT ID: 10740

LAB ID	SAMPLE DE	SCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392042	FIELD ID:	23B	N/A	SAMPLE NOT ANALYZED	
		9" X 9" BROWN FLOOR TILE MASTIC	N/A		
	LOCATION:	ROOM 21A			
392043	FIELD ID:	23C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL:	9" X 9" BROWN FLOOR TILE MASTIC	N/A		
	LOCATION:	ROOM 21A			
392044	FIELD ID:	24A	вк	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL:	9" X 9" BLACK FLOOR TILE	N	NONFIBROUS MATERIAL	88 %
	LOCATION:	ROOM I			
202045	FIELD ID:	24B	N/A	SAMPLE NOT ANALYZED	
5,20.0		9" X 9" BLACK FLOOR TILE	N/A		
	LOCATION:	ROOM 5			
392046	FIELD ID:	24C	N/A	SAMPLE NOT ANALYZED	- 44
	MATERIAL	9" X 9" BLACK FLOOR TILE	N/A		
	LOCATION:	ROOM 8			
392047	FIELD ID:	25A	вк	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL:	9" X 9" BLACK FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	88 %
	LOCATION:	ROOM I			
202040	FIELD ID.	250	N/A	SAMPLE NOT ANALYZED	
392048		9" X 9" BLACK FLOOR TILE MASTIC	N/A	SAMI DE NOT ANALTEED	
	LOCATION:	*	TWA .		
202040	FIELD ID:	25C	N/A	SAMPLE NOT ANALYZED	
372047		9" X 9" BLACK FLOOR TILE MASTIC	N/A	• • • • • • • • • • • • • • • • • • • •	
	LOCATION:				
392050	FIELD ID:	26A	YL.	NO ASBESTOS DETECTED	
		GOLD CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	LIBRARY			
202051	FIELD ID:	26B	YL	NO ASBESTOS DETECTED	
37203 l		GOLD CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
		LIBRARY	812		



REPORT ID: 10740

LAB ID	SAMPLE DE	SCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392052	FIELD ID:	26C	YL	NO ASBESTOS DETECTED	
		GOLD CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	LIBRARY			
392053	FIELD ID:	27A	Pl	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL:	PINK SINK COATING	N	NONFIBROUS MATERIAL	88 %
	LOCATION:	ROOM 6			
392054	FIELD ID:	27B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: LOCATION:	PINK SINK COATING ROOM 7	N/A		
702056	FIELD ID:	27C	N/A	SAMPLE NOT ANALYZED	
392033		PINK SINK COATING	N/A	SAMI DE NOT ANALTEDO	
	LOCATION:		N/A		
200056	BIELD ID	20.4	TN/GY	NO ASBESTOS DETECTED	12 1001
392056	55	28A	Y	CELLULOSE	25 %
	LOCATION:	TAN SHEET FLOORING	I	SYNTHETIC	10 %
	LOCATION.	LIBRAKI		NONFIBROUS MATERIAL	65 %
Œ.				<i>y</i> =	Ģ(
392057	FIELD ID:	28B	TN/GY	NO ASBESTOS DETECTED	
	19	TAN SHEET FLOORING	Y	CELLULOSE	25 %
	LOCATION:	LIBRARY		SYNTHETIC	10 %
				NONFIBROUS MATERIAL	65 %
392058	FIELD ID:	28C	TN/GY	NO ASBESTOS DETECTED	
	MATERIAL:	TAN SHEET FLOORING	Y	CELLULOSE	25 %
	LOCATION:	LIBRARY		SYNTHETIC	10 %
				NONFIBROUS MATERIAL	65 %
202050	FIELD ID:	29A	YL	NO ASBESTOS DETECTED	
J74UJ7		TAN SHEET FLOORING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:		. 15	HOM IDNOOD WITHING ID	

REPORT ID: 10740 PROJECT: 13.00298 - 391970 SAMPLE LAB IDs: 391970 TO 392103, NO. OF SAMPLES: 134

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PROJECT: 13,00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

	SAMPLE DESCRIPTION	<u>LAYERED</u>	ANALYTICAL RESULTS	
392060	FIELD ID: 29B	YL	NO ASBESTOS DETECTED	
	MATERIAL: TAN SHEET FLOORING ADHESIVE	e N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
		22	NO AGRECACE DETECTED	
	FIELD ID: 29C	YL	NO ASBESTOS DETECTED NONFIBROUS MATERIAL	100 %
	MATERIAL: TAN SHEET FLOORING ADHESIVE LOCATION: LIBRARY	S N	NONFIBROUS MATERIAL	100 70
392062	FIELD ID: 30A	GN	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 9" X 9" GREEN FLOOR TILE	N	NONFIBROUS MATERIAL	90 %
	LOCATION: LOBBY			
a Sh	· ,		CAMPLE NOT ANALYZED	
	FIELD ID: 30B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" GREEN FLOOR TILE	N/A		
	LOCATION: HALL, @ STAGE ENTRANCE		,	
*	FIELD ID: 31A	ВК	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 9" X 9" GREEN FLOOR TILE MAST	IC N	NONFIBROUS MATERIAL	90 %
	LOCATION: LOBBY			
392065	FIELD ID: 31B	N/A	SAMPLE NOT ANALYZED	
392003	MATERIAL: 9" X 9" GREEN FLOOR TILE MAST			
	LOCATION: HALL, @ STAGE ENTRANCE			
392066	FIELD ID: 32A	WH/BR	NO ASBESTOS DETECTED	
372000	MATERIAL: GYPSUM WALLBOARD	Υ	FIBROUS GLASS	02 %
	LOCATION: 21B		CELLULOSE	15 %
			NONFIBROUS MATERIAL	83 %
392067	FIELD ID: 32B	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: GYPSUM WALLBOARD	Y	FIBROUS GLASS	02 %
	LOCATION: 21B		CELLULOSE	15 %
			NONFIBROUS MATERIAL	83 %

COVINO ENVIRONMENTAL ASSOCIATES INC

REPORT ID: 10740

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PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

ADID S		COLOR LAYERED	ANALYTICAL RESULTS	
		GY/BR	NO ASBESTOS DETECTED	
392068 F	IELD ID: 32C	Y	FIBROUS GLASS	02 %
	MATERIAL: GYPSUM WALLBOARD		CELLULOSE	18 %
L	OCATION: 21C		NONFIBROUS MATERIAL	80 %
	SIELD ID: 33A	TN	ASBESTOS - CHRYSOTILE	02 %
	MATERIAL: JOINT COMPOUND	N	NONFIBROUS MATERIAL	98 %
	LOCATION: 21B			
	FIFLD ID: 33B	N/A	SAMPLE NOT ANALYZED	
392070	MATERIAL: JOINT COMPOUND	N/A		
	LOCATION: 21B			
		NUA	SAMPLE NOT ANALYZED	
	FIELD ID: 33C	N/A	SAMI BE NOT THE P	
	MATERIAL: JOINT COMPOUND LOCATION: 21C	N/A		3
392072	FIELD ID: 34A	GY	ASBESTOS - CHRYSOTILE	10
372012	MATERIAL: GRAY SINK BASIN COATING	N	NONFIBROUS MATERIAL	90
	LOCATION: 21C			
392073	FIELD ID: 34B	N/A	SAMPLE NOT ANALYZED	
3,20.0	MATERIAL: GRAY SINK BASIN COATING	N/A		
	LOCATION: 21C			
3		MU	NO ASBESTOS DETECTED	
392074	FIELD ID: 35A MATERIAL: PERIMETER INTERIOR WINDOW GLAZING	Y	WOLLASTONITE	05
	COMPOUND		NONFIBROUS MATERIAL	95
	LOCATION: ROOM 10			
		egra 1 da 5 za 1	NO ASBESTOS DETECTED	
392075	FIELD ID: 35B	TN/WH	NONFIBROUS MATERIAL	100
	MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND	N	HOM IDICOCO PARTIE	
	LOCATION: ROOM 4		9 99.5	
392076	FIELD ID: 35C	TN/WH	NO ASBESTOS DETECTED	100
374010	MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	10
	LOCATION: ROOM 15			

LAB ID	SAMPLE DE	SCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	786
392077	FIELD ID:	36A	GY/BK	NO ASBESTOS DETECTED	9 A
	MATERIAL: COMPOUND	HALLWAY INTERIOR WINDOW GLAZING	Y	NONFIBROUS MATERIAL	100 %
	LOCATION:	ROOM 10			
392078	FIELD ID:	36B	GY/BK	NO ASBESTOS DETECTED	
	MATERIAL: COMPOUND	HALLWAY INTERIOR WINDOW GLAZING	Y	NONFIBROUS MATERIAL	100 %
	LOCATION:	ROOM 11			
392079	FIELD ID:	36C	TN	ASBESTOS - CHRYSOTILE	02 %
	MATERIAL: COMPOUND	HALLWAY INTERIOR WINDOW GLAZING	N	NONFIBROUS MATERIAL	98 %
	LOCATION:	ROOM 21A			
202080	FIELD ID:	37A	GY/WH	ASBESTOS - CHRYSOTILE	40 %
392000		CEMENTITIOUS WALL PANEL UNDER	N	NONFIBROUS MATERIAL	60 %
		FACULTY ROOM			
392081	FIELD ID:	37B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: PERIMETER	CEMENTITIOUS WALL PANEL UNDER WINDOWS	N/A		
	LOCATION:	ROOM 11			
392082	FIELD ID:	37C	N/A	SAMPLE NOT ANALYZED	-\$1)
,,,,,,,		CEMENTITIOUS WALL PANEL UNDER WINDOWS	N/A		
	LOCATION:	ROOM 10		540	
392083	FIELD ID:	38A	WH/BR	NO ASBESTOS DETECTED	
372003		TRAILER GYPSUM 4' X 8' WALL PANEL	Y	FIBROUS GLASS	02 %
		HALL, @ ROOM 14		CELLULOSE	15 %
	7.55			NONFIBROUS MATERIAL	83 %
		0 0 0			
392084	FIELD ID:	38B	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL:	TRAILER GYPSUM 4' X 8' WALL PANEL	Y	FIBROUS GLASS	02 %
	LOCATION:	ROOM 15		CELLULOSE	15 %
				NONFIBROUS MATERIAL	83 %

REPORT ID: 10740 PROJECT: 13 00298 - 391970 SAMPLE LAB IDs: 391970 TO 392103, NO. OF SAMPLES: 134





LAB ID	SAMPLE DE	ESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392085	FIELD ID:	38C	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL:	TRAILER GYPSUM 4' X 8' WALL PANEL	Υ	FIBROUS GLASS	02 %
	LOCATION:	HALL, @ ROOM 23		CELLULOSE	15 %
				NONFIBROUS MATERIAL	83 %
392086	FIELD ID:	39A	TN	NO ASBESTOS DETECTED	
392000		SEAM SEALANT ON TRAILER GYPSUM	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	HALL, @ ROOM 14			
392087	FIELD ID:	39B	TN	NO ASBESTOS DETECTED	
3,200.		SEAM SEALANT ON TRAILER GYPSUM	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	ROOM 15			
392088	FIELD ID:	39C	TN	NO ASBESTOS DETECTED	0.0
-,	MATERIAL: PANELS	SEAM SEALANT ON TRAILER GYPSUM	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	HALL. @ ROOM 23			
392089	FIELD ID:	40A	WH	NO ASBESTOS DETECTED	
	MATERIAL:	12" X 12" WHITE W/BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION:	HALL @ ROOM 14			
15		ei 1		90 90 _5	
392090	FIELD ID:	40B	WH	NO ASBESTOS DETECTED	
*		12" X 12" WHITE W/BLUE FLOOR TILE HALL CONNECTOR	N	NONFIBROUS MATERIAL	100 %
202001	FIELD ID:	40C	WH	NO ASBESTOS DETECTED	
392091		12" X 12" WHITE W/BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
		HALL @ ROOM 16		NOW IBROOS MATERIAL	100 %
202002	PIPI D ID.	11. 18 ₁₁₂		NO ACRECTOS DETECTED	
392092	FIELD ID: MATERIAL: MASTIC	41A 12" X 12" WHITE W/BLUE FLOOR TILE	YL N	NO ASBESTOS DETECTED NONFIBROUS MATERIAL	100 %
	LOCATION:	HALL @ ROOM 14			

REPORT ID: 10740 PROJECT: 13,00298 - 391970 SAMPLE LAB IDs: 391970 TO 392103, NO. OF SAMPLES: 134

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PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

LAB ID_	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392093	FIELD ID: 41B	YL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE MASTIC	Ν	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL CONNECTOR			
392094	FIELD ID: 41C	YL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL @ ROOM 16			
392095	FIELD ID: 42A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE LOCATION: HALL, @ 16	N	NONFIBROUS MATERIAL	100 %
392096	FIELD ID: 42B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE LOCATION: HALL, @ ROOM 16	N	NONFIBROUS MATERIAL	100 %
			F	
392097	FIELD ID: 42C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE LOCATION: HALL, @ ROOM 16	N	NONFIBROUS MATERIAL	100 %
	×, ^y ,		f	
392098	FIELD ID: 43A	BK	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE MASTIC LOCATION: HALL, @ ROOM 16	N	NONFIBROUS MATERIAL	100 %
		- mil	:	
392099	FIELD ID: 43B	BK	NO ASBESTOS DETECTED	100.0
	MATERIAL: 12" X 12" GRAY FLOOR TILE MASTIC LOCATION: HALL, @ ROOM 16	N	NONFIBROUS MATERIAL	100 %
202100	FIELD ID: 43C	вк	NO ASBESTOS DETECTED	
372100	MATERIAL: 12" X 12" GRAY FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16		HOM IBROOD MATERIAL	
202101	FIELD ID: 44A	BR	NO ASBESTOS DETECTED	
392101	MATERIAL: GLUE DAUB ASSOC. W/METAL CEILING ACCESS PANEL	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			



PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS
		BR	NO ASBESTOS DETECTED
392102	FIELD ID: 44B	DK	NO ASBESTOS DETECTED
	MATERIAL: GLUE DAUB ASSOC. W/METAL CEILING ACCESS PANEL	N	NONFIBROUS MATERIAL 100 %
	LOCATION: HALL, @ ROOM 16		
392103	FIELD ID: 44C	BR	NO ASBESTOS DETECTED
	MATERIAL: GLUE DAUB ASSOC. W/METAL CEILING ACCESS PANEL	N	NONFIBROUS MATERIAL 100 %
	LOCATION: HALL, @ ROOM 16		



REPORT ID: 10740

PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS NOTES: N/A=NOT APPLICABLE WH WHITE RD RED COLOR CODES: BG BEIGE BR BROWN GY GRAY OR ORANGE YL YELLOW BK BLACK MU MULTI PΙ PINK SI SILVER CL CLEAR MA MAROON PR PURPLE TN TAN BL BLUE GN GREEN N/A NONE VT #AL017034 ME #LB-061 LABORATORY CERTIFICATIONS: MA #AA000006 RI#AAL-025C3 CT #PH-0248 ACCREDITATION: NVLAP #101781-0 KEVIN T. MCKENZIE, LABORATORY MANAGER APPROVED SIGNATORY. DATE OF ISSUE: 09/03/13 THESE SAMPLES WERE ANALYZED BY POLARIZED LIGHT MICROSCOPY WITH DISPERSION STAINING (PLM/DS) ACCORDING TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (US EPA) "INTERIM METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK INSULATION SAMPLES" (EPA-600/M4-82-020) AND "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" (EPA-600/R93/116). THIS METHOD IS CONSIDERED SENSITIVE TO THE PRESENCE OF ASBESTOS AT LESS THAN ONE PERCENT. THIS REPORT RELATES ONLY TO THOSE SAMPLES ANALYZED, AND MAY NOT BE INDICATIVE OF OTHER SIMILAR APPEARING MATERIALS EXISTING AT THIS, OR OTHER SITES. FLOOR TILES AND RESINOUSLY BOUND MATERIALS ANALYZED BY EPA METHOD 600/R93/116, "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS," MAY YIELD FALSE NEGATIVE RESULTS DUE TO DIFFICULTIES IN ISOLATING SUSPECT FIBERS AND SUBSEQUENTLY IDENTIFYING THEM BENEATH THE MATRIX MATERIAL WHICH ENCAPSULATES THEM. SHEARING DURING THE MANUFACTURE OF VINYL TILE DECREASES THE FIBER SIZE OF THE ASBESTOS COMPONENT, THEREFORE, THE FIBERS MAY NOT BE READILY DETECTABLE USING POLARIZED LIGHT MICROSCOPY. AS A RESULT, LABORATORY ANALYSIS CANNOT ALWAYS BE ACCOMPLISHED USING STANDARD TECHNIQUES. WHEN THE EPA METHOD YIELDS A "NO ASBESTOS DETECTED" RESULT FOR FLOOR TILES AND RESINOUSLY BOUND MATERIALS, COVINO ENVIRONMENTAL ASSOCIATES RECOMMENDS FURTHER ANALYSIS USING SEM OR TEM TECHNIQUES FOR THE IDENTIFICATION OF ASBESTOS. THE EPA REQUIRES THAT FRIABLE SAMPLES WITH ASBESTOS CONTENTS OF LESS THAN 10%, DETERMINED BY A VISUAL ESTIMATION, BE VERIFIED USING THE POINT COUNTING TECHNIQUE OR OTHERWISE BE ASSUMED TO CONTAIN GREATER THAN 1% ASBESTOS BY THE BUILDING OWNER OR OPERATOR. IF ANALYTICAL RESULTS INDICATE THE PRESENCE OF 1% OR LESS ASBESTOS IN A FRIABLE MATERIAL, THAT MATERIAL MUST BE TREATED AS ASBESTOS-CONTAINING MATERIAL UNLESS THESE QUANTITIES ARE VERIFIED USING THE POINT COUNTING TECHNIQUE. FRIABLE SAMPLES WILL BE POINT-COUNTED UPON REQUEST BY THE CLIENT. POINT COUNTING IS NOT REQUIRED FOR THOSE SAMPLES IN WHICH NO ASBESTOS IS DETECTED DURING ANALYSIS BY PLM. LAYERED SAMPLES ARE ANALYZED IN THE FOLLOWING MANNER: ALL LAYERS ARE ANALYZED SEPARATELY, AND QUANTITIES ARE REPORTED AS A PERCENTAGE OF THE ENTIRE COMPOSITE SAMPLE. ALL SAMPLES ARE STORED AT THE COVINO LABORATORY FOR A PERIOD OF THREE MONTHS. FURTHER ANALYSIS OR RETURN OF SAMPLES MUST BE REQUESTED WITHIN THIS THREE-MONTH PERIOD TO GUARANTEE THEIR AVAILABILITY. THIS REPORT MAY NOT BE REPRODUCED EXCEPT IN ITS ENTIRETY, WITHOUT PERMISSION OF THE COVINO ENVIRONMENTAL ASSOCIATES, INC. LABORATORY DIRECTOR OR ONE OF THE LABORATORY SIGNATORIES. THIS REPORT MAY NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT. PAGE 18 OF 18 PROJECT: 13,00298 - 391970 SAMPLE LAB IDs: 391970 TO 392103, NO. OF SAMPLES: 134 REPORT ID: 10740

300 Wildwood Avenue, Woburn, MA 01801 • Tel: 781.933.2555 • Fax: 781.932.9402 • email:mail@covinoinc.com

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Email: mail@covinoinc.com Fax 781.932.9402 Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.940

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Analyst's Signature

Accept Reject Comments

Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA

Email: mail@covinoinc.com Fax 781.932.9402 Phone 781.933.2555

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Rev. 3/28/08

Covino Environmental Associates, Inc. 300.Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

Email: mail@covinoinc.com Fax 781.932.9402

Covino Pro	Covino Project No. 13,00298	Client:	Scituate Public Schools	Schools	ē			Turnarou	nd (circl	e) same d	Turnaround (circle) same day 24-hr (standard (5 day)	Standard	(S day)
Samples Co	Samples Collected by: Ken Roberts		600 Chief Justice Cushing Highway Scituate, M.A 02066	e Cushing Hi 066	ghway			Contact:	Glenn P	Glenn Potter – 781,706.	Glenn Potter – 781,706,7317		: \
License No:	AI-000317												
Date(s) Coll	Date(s) Collected: 8/14 AW 8/16/2013	Project Name and Location:	Cushing Elementary, One Aberdeen Drive Scituate, MA	tary, One Al	verdeen	Drive							
Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic Visual	Optical Properties	Fiber Ref. Ind.	%As	%Asbestos Fiber Present	ig Pi		•	6 Non Asb	% Non Asbestos Present		
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Lab ID#	DESCRIPTION	(). ().	- 0 - 0	= = =	> w 4 ≻ w	. N −	Z		101				
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(1411-0	STORAGE KM & BOLLER RM	7				7			Ş.				
73	MATERIAL: SMOOTH FINISH PLASTER SIN	74 24 25		_									(54)
	CEILING BASC COAT)) _
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Phone 781.933.2555 Fax 781.932.9402 Email: mail@covinoinc.com

		Climb	Cathanda D. Litt. C. L1-	LI-		Tuesdament (almela) come deri 24 ha Amedael (5 3-	(almala)	Jan. 34 hay		
Covino Pro	Covino Project No. 13.00298	Circuit	Scituate rupite oc	Scituate rublic Schools (200 Object Landon Conhime Utterburger		י עו וואון עווען	ירוו רובי) פמוזכ) III. 1-7 (am :	Significan	
Samples Co.	Samples Collected by: Ken Roberts		Scituate, MA 02066	Cusming inghway		Contact: Gle	Glenn Potter – 781.706.7317	181.706.7317		
License No:	AI-000317			25			вроист есоушопс. сот	IRC. COM		
Date(s) Coll	Date(s) Collected: 8/14 AND 8/16/2013	Project Name and Location:	Cushing Elementa Scituate, MA	Cushing Elementary, One Aberdeen Drive Scituate, MA						
Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic Visual	Optical Properties	Fiber Ref. %Asbestos Fiber ind.	Fiber		% Non As	% Non Asbestos Present		
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	HAUST PIPE INSCRATION					_)
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Lanks	HALL BY ELECTRIC RM				<u> </u>	3	ا.			
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7 of 23

Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA

Email: mail@covinoinc.com Fax 781,932,9402 Phone 781.933.2555

Non 92 8 8 8 Turnaround (circle) same day 24-hr standard (5 day) 8 Other AUG 1 9 2013 Contact: Glenn Potter - 781.706.7317 % Non Asbestos Presen Synthetic 五年 F.64 gpotter@covinoinc.com M Hatr 32 Cellalone ð = ž g , Email: \$ %Asbestos Fiber CKOO-Cushing Elementary, One Aberdeen Drive <Σ0 ω 600 Chief Justice Cushing Highway O H R Y S Fiber Ref. Ind = Scituate Public Schools Scituate, MA 02066 Optical Properties Schuate, MA Hand Date: 8/17/2013 Received by: **≥** 0 4 0.0 Project Name | ZO | ZO | ZO | ZO | and Location: ToEo 2 Ž 2 MATERIAL: WHINCID - COCLERS WALL OF NFY GAN FY Stereoscopic .J 2-0 Client: 2-2 2 < - 2 2^Z HAK. 00-05 3= <u>=</u>/ 3 3 KITCHEN- REFRICERATOR MATERIAL: ICALK - IN . COLERS - WHILE CEIUNG MATERIAL: 1'x | BOWNE CO. INSULATION CEILING INSULATION HPSSCATICED KITCHED - FAEEZEA FREE 25A DO NOT WRITE IN SHADED AREAS MATERIAL: WALK . 113 - COULERS MATERIAL: WHUK. 1 12 - CELLERS 2013 MATERIAL: TECTUM 4 X8 INSULATION) KITCHED HALLIDIKY PANELS DESCRIPTION Date(5) Collected: 8/14 ALD 8/16/ GEILIBY Ray IC KITCHES GEILER Relinquished by: KEN ROBERTS Samples Collected by: _Ken Roberts. AI-000317 Covino Project No. 13.00298 LOCATION: LOCATION: LOCATION: LOCATION: LOCATION LOCATION 320265 Loockil 1230cs (2000) 010265 License No: Sample 1D 一つらいか 12 A 178 =Field ID# 二 五 Lab ID# <u></u> <u></u>

Date(s) Analyzed: 8-20-13 Temp: 25.5C

Analyst's Signature

Accept Reject Comments

Date:

Email: mail@covinoinc.com Fax 781.932.9402 Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

		Clent	Scituate Public Schools	c School					Turi	naround	Turnaround (circle) same day 24-hr standard (5 day))	une day	24-hr	standard (S day)
Covino Pro	Covino Project No. 13.00298		600 Chief Justice Cushing Highway	tice Cost	dag Hiel	WBV				Contact: Gla	Glans Dottor _ 781 705 7317	781 7	7127 90		\
Samples Co	Samples Collected by: Ken Roberts		Scituate, MA 02066	99020	0				Email:		grotter@covinoinc.com	inoinc.o) () () () () () () () () () (
License No:	AI-000317)		}		
Date(s) Coll	ected: 8/	Project Name and Location:	Cushing Elementary, One Aberdeen Drive Scituate, MA	entary,	One Abe	rdeen	Drive	,			ı		i		
Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic Visual	~		Fiber Ref. Ind.	%As	%Asbestos Fiber Present	Fiber		23	% No	% Non Asbestos Present	rs Present		
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Accent Rei	Account Reject Comments	Analyst's Signature	nature	10	17			Ē	Date(s) Analyzed:		8-12-13	7. T.	Temp.	285	
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Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.932.2555 Fax 781.932.9402

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Covino Proj	Covino Project No. 13.00298	Client:	Schaute Fugue Schools Alebway	Cushing Hi	phwav		<u> </u>	Comtout Clor	n Potter	Glenn Potter - 781,706,7317		1
Samples Col	Samples Collected by: Ken Roberts		Scituate, MA 02066	99			<u> </u>		tter@covir	gpotter@covinoinc.com	57	
License No:	01:	Project Name	Cushing Elementary, One Aberdeen Drive	tary, One At	erdeen L	Irive						
Date(s) Coll	Date(s) Collected: 8/14 Att0 6/16/2015	and Location:	Scituate, MA				\dashv			i		
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610268	LOCATION:								5.8			
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asisi	LOCATION: KITCHEN DFFICE							_				
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Arcent Ro	Beiert Comments	Analyst's Signature	gnature	So Kil	1	Ī	ate(s) /	nalyzed:	8-20.	(2 Temp	Date(s) Analyzed: 8-20-(3 Temp: 23.5C	
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Page 10 of 23

Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

Email: mail@covinoinc.com

9	12 00200	Cllent:	Scituate Public Schools	offe Sch	ools				 	Turnaro	and (circl	e) same d	lay 24-hr	Turnaround (circle) same day 24-hr (standard (5 day))	(5 day)
COVIDO PTO	COVIDA Froject ive, 13.00296		600 Chief Justice Cushing Highway	stice C	ushing H	ighwa	₩.		_	Contact:	Glenn P	otter – 78	Contact: Glenn Potter - 781.706.7317		١
Samples Co	Samples Coffected by: Ken Roberts		Scituate, MA 02066	A 0206						Email:	gpotter@	gpotter@covinoinc.com	ic.com		
License No:	215000	Profect Name	Cushing Elementary, One Aberdeen Drive	mentar	y, One A	berdee	i Di	ě.							
Date(s) Coll	Date(s) Collected: 0/14 /400 0/16 / 2015	and Location:	Scituate, MA	¥											
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184	4" WALLBUSE HOHESIUS	24 24 24						S.							<u>ာ</u>
970266	377026 LOCATION: KITCHEN OFFICE		1.1												
183	HOHESNE	2 L 2 L 2 L									•			89 <u> </u>	3
(17).(2)	LOCATION:		8												i
9	MATERIAL: 4" NIMLIBASE JOHESIUE	2L 2A													3
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19 M	2'x4' FISSURED CENTRE	5.								1 ئ	分				23
75756	TICLE LOCATION: TILE CAFETELIN	(3±	-		 -			13.		3	ונקל				
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						Transport	Trumpanned popular some day 24 hr (grandgerd (5 day))	John amon	1 24-hr	Pandard (5	(lan)
Covino Proj	Covino Project No. 13.00298	Cllent:	Scituate Public Schools	Schools Cuching II				, 100 - 11			1
Samples Co	Samples Collected by: Ken Roberts		Scituate, MA 02066	.066 3066		Contact Email:	Contact: Clend Four = (01./00./31/ Email: gpotter@covincinc.com	grotter@covinoinc.com	com		-
License No.	AL-000317						5				
Date(s) Coll	cted: 8/1	Project Name and Location:	Cushing Elementary, One Aberdeen Drive Scituate, MA	ıtary, One Al	yerdeen Drive		87				
Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic	١٧	Fiber Ref.	%Asbestos Fiber		%	% Non Asbestos Present	tos Present	į	
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29763	LOCATION:	4				3	- Ž			*	
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५५७०१५%	LOCATION: HIGH @ CAFETELING	3									
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Rev. 3/28/08

Page /2 of 23

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		Cleat:	Scituate Public Schools	hooks	I 		Turnard	Turnaround (circle) same day 24-hr (standard (5 day))	e) same da	y 24-hr(standard (5	day
Covido Proj	Covino Project No. 13.00298		600 Chief Justice Cushing Highway	Cushing High	IWAY		Contact:		Glenn Potter - 781.706.7317	706.7317		\
Samples Co	Samples Collected by: Ken Roberta		Schuate, MA 02066	9			Email:		gpotter@covinoinc.com	.com		
License No:	AI-000317											
Date(s) Coll	cted: 8/14 ALD 8/16/2013	Project Name and Location:	Cushing Elementary, One Aberdeen Drive Scituate, MA	ry, One Abei	rdeen Drive							
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70	1111	2° ± 3 ±						· -				160
3723	LOCATION: HALL @ CAFETERIA											
22.A		3/20/2	2 7 + =	1889 Just	Q/							90
&206E	LOCATION: CHFETERIA									161		
822	MATERIAL: 929" BROWN FLOOR TILE							Not	122	AN ALYZEL	^	
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397046			- 1									
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Rev. 3/28/08

3 of 23

Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA

300 Wildwood Ave, wobum, MA
Phone 781.933.2555 Fax 781.932.9402 Email: mail@covinoinc.com

Non Fibrous B \mathcal{B} Turnaround (circle) same day 24-hr (standard (5 day) Officer AUG 1 9 2013 ANALYM る人とから るながしま 合うとうと Contact: Glenn Potter - 781.706.7317 % Non Asbestos Present Synthetic gpotter@covinoinc.com Hai boz ちる 100 P Cellulose Email: %Asbestos Fiber <2 + ±0 H K B Z O Project Name Cushing Elementary, One Aberdeen Drive **₹**ZOS 600 Chief Justice Cushing Highway 1896 1883 / Fiber Ref. Ind. = 泛 Scituate Public Schools Scituate, MA 02066 2 Optical Properties 21-1-13 Scituate, MA Relinquished by: KEM ROBERIS/ Received by: + 60 E E and Location: MATERIAL: 9" X 9" ISLACK FLOOK TILE & 12 NY o E o Stereoscopic 0 K + Clent: % **<** 50 U 0 -- 0 -MATERIAL: 9 x9" BROWN FLUCK TILE MATERIAL: 9"x9" BROWN FLOOR TILE Bu 27 th Ka MATERIAL: 9"x9" BLACK FLOOR TILE BLACK FLOCK TICK DO NOT WRITE IN SHADED AREAS MASTER 2013 RM ZI A Rm 21 A MASTIC MASTIC MASTIC DESCRIPTION Rul B Date(s) Collected: 8/14 ALO 8/16 MATERIAL: 9"x9" Samples Collected by: _Ken Roberts AI-000317 Covino Project No. 13.00298 LOCATION: LOCATION: LOCATION: LOCATION: LOCATION: LOCATION: License No: 1392044 545262 13720H 23C SHORES 1372043 24B ンなり である。 23B Sample (D ¥ 17. Field ID# Lab ID#

Date(1) Analyzed: 8-21-13 Temp: 235c

Analyst's Signature_

Accept Reject Comments

Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

Ernail: mail@covinoinc.com

Phone 781.933.2555	13.2555 Fax 781.932.9402 Ernail: mail@covinoinc.com	nc.com						i i	"	
Covino Pro	Coving Project No. 13.00298	Client:	Scituate Public Schools	hoods		Turnaron	ınd (circie) same day 2	Turnsround (circle) same day 24-lu (Standard (5 day)	S day
	Mandel Iver Kom Dekrande		600 Chief Justice Cushing Highway	Cushing Highway		Contact:		Glenn Potter + 781.706.7317	.7317	
Samples Co	Samples Collected by:		Scituate, MA 02000	R		Email:	gpotter@	gpotter@covinoinc.com	=	
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Page 15 of 25

Covino Environmental Associates, Inc.

Email: mail@covinoinc.com Fax 781.932.9402 300.Wildwood Ave, Wobum, MA Phone 781.933.2555 Fax 781.9

Phone 781.933.2555	3.2555 Fax 781.932.9402 Email: mail@covinoinc.com	nc.com					i I	and foliate	op some do	24 hr	Turnensen (Simple) come day 24 hr Chandard (5 day)	(Jage)
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Samples Co	Samples Collected by: Ken Roberts		Scituate, MA 02066	92			Email:		gpotter@covinoinc.com	.com		
License No: Date(s) Colle	License No: AI-000317 Date(s) Collected: 8/14 ALD 8/16/2013	Project Name and Location:	Cushing Elementary, One Aberdeen Drive Scituate, MA	ury, One Ab	erdeen Dr	ve			:			
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Analyst's Signature

Date: 8/17/2013 Received by:

Relinquished by: KEN ROBERTS

Accept Reject Comments

Date(s) Analyzed: 8-21-13 Temp: 23.5c

Rev. 3/28/08

Date:

Covino Environmental Associates, Inc.

Asbestos Bulk Chain of Custody

Page (10 of 2.3

300. Wildwood Ave, Woburn, MA

Email: mail@covinoinc.com

Fax 781.932.9402

Phone 781.933.2555

00 Non Fibrous 9 8 Z Turnaround (circle) same day 24-hr standard (5 day) S E AUG 19 2013 Contact: Glenn Polter - 781.706.7317 % Non Asbestos Present 100 JANA 100 A STATES Synthetic gpotter@covinoinc.com 불 NOT Celladose Date: Email: %Asbestos Fiber F K B ¥ O Cushing Elementary, One Aberdeen Drive 0×00-< ₹ 0 % 600 Chief Justice Cushing Highway S K W H C 15(c) | 554 | 10 KAG 1553.00 Fiber Ref. Ind. = Scituate Public Schools Scituate, MA 02066 Optical Properties 2 7 Scituate, MA J J Relinquished by: KEN KOBERIS/ Black Care Date: 8/17/2013 Received by: + + 33 /20 92 =3 Z 0 - A-Project Name and Location: 12 01 X 7 2 2 4 Stereoscopic Cllent: U = - - -FLUDRING. MATERIAL: 9"x9" CREED FLOOK TILE EUTRHOCK MATERIAL 9"X9" GREEN FLOX TILE MATERIAL: 9"x9" GREEU FLOOR THE MATERIAL: 9 " GREEU FLOOK TILE STREE ENTRINCE MATERIAL: TAL SHEET FLOORING DO NOT WRITE IN SHADED AREAS 2013 AD HESIOF Z FST C 4DAESCUE 138ARY MASTIC MATERIAL: TAN SHEET JBRARY DESCRIPTION LOBBY Date(s) Collected: 8/14 ALD 8/16/ STAGE 10BBY Sumples Collected by: _ Ken Roberts AI-000317 MACL @ Covino Project No. 13.00298 LOCATION: LOCATION: LOCATION LOCATION: LOCATION: LOCATION: 1956 303 1-332065 License No: (2) (2) rARCLA $\frac{3}{8}$ 29 C 3,700 39202 2 Sample 1D 31 A 30 A Field ID# Lab ID# Ñ

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Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

Email: mail@covinoinc.com

		Clieat:	Scituate Public Schools	stoot		Turnan	Turnaround (circle) same day 24-hr (standard (5 day))	same day	24-tr	standard (5	day)
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Accept Reject Comments

Date(s) Analyzed: 2-21 -13 Temp: 73,5c Rev. 3/28/08

Page / 25 of 25

Covino Environmental Associates, Inc. 306 Wildwood Ave, Woburn, MA

Email: mail@covinoinc.com

Fax 781.932.9402

Phone 781.933.2555

8 8 8 Non Fibross ટ્ર 2 Turnaround (circle) same day 24-hr (standard (5 day)) Salindate S TI-Front Office Contact: Glenn Potter - 781.706.7317 % Non Asbestos Present なられる Synthetic gpotter@covinoinc.com 搪 Callalose しりる Email: %Asbestos Fiber <Z + ≡0 PRB∑0 Cushing Elementary, One Aberdeen Drive **₹∑0**0 600 Chief Justice Cushing Highway O H & Y S 687/1853/10 Fiber Ref. Scituate Public Schools Scituate, MA 02066 ----Optical Properties 7 Scituate, MA J + n -- -- ---3 Project Name and Location: 7 I o E o w MATERIAL: GRAY SINK BASIL (PATION S/16/F/Y) <u>></u> <u>}-</u> 24-24 Stereoscopic **₩** # 20 Clent 20 A < - v 4L c3 .<u>5</u>√3÷ ダ 0 - 0 + MATERIAL: GRRY SINK BASIN GATING Comrecions INTERIOR WINDOW GLAZING COMPOUND GLAZING CEMPENDD Compour? MATERIAL: HALLIENY INTERIOR MATERIAL: PERIMETRE INTERIOR MATERIAL: PERIMETER INTERIOR DO NOT WRITE IN SHADED AREAS 2013 WILDOW GLAZING LOCATION: DESCRIPTION RM 15 MATERIAL: PERIMETER Rm 10 Date(s) Collected: 8/14 ALX 8/16 Rm 4 WINDS GLUZING LOCATION: Samples Collected by: Ken Roberts AI-000317 LOCATION: Cavino Project No. 13.00298 1392073 LOCATION: LOCATIONS LOCATION: License No: | himlsz-13/02/52 12365 Morps 500.62 34B 35 B 35C Sample 1D 36 A K Field ID# 1.ab (D# 35

Date(s) Analyzed: Analyst's Signature Accept Reject Comments

July Date: 8/17/2013 Received by:

Relinquished by: KEN ROBERIS

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Date:

Page /7 of 25

Email: mail@covinoinc.com Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

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Samples Coll	Samples Collected by: Ken Roberts	w	Scituate, MA 02066	. 92				Email:	gpotter@	gpotter@covinoinc.com	com		-
License No:	License No: Al-Duil 17 Aub 8/16/2013	set Name	Cushing Elementary, One Aberdeen Drive	ıry, One Ab	erdeen 1	Irive							
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Email: mail@covinoinc.com Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

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Page 4 of 25 and (circle) same day 24-hr standard (5 day) Asbestos Bulk Chain of Custody Email: mail@covinoinc.com Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

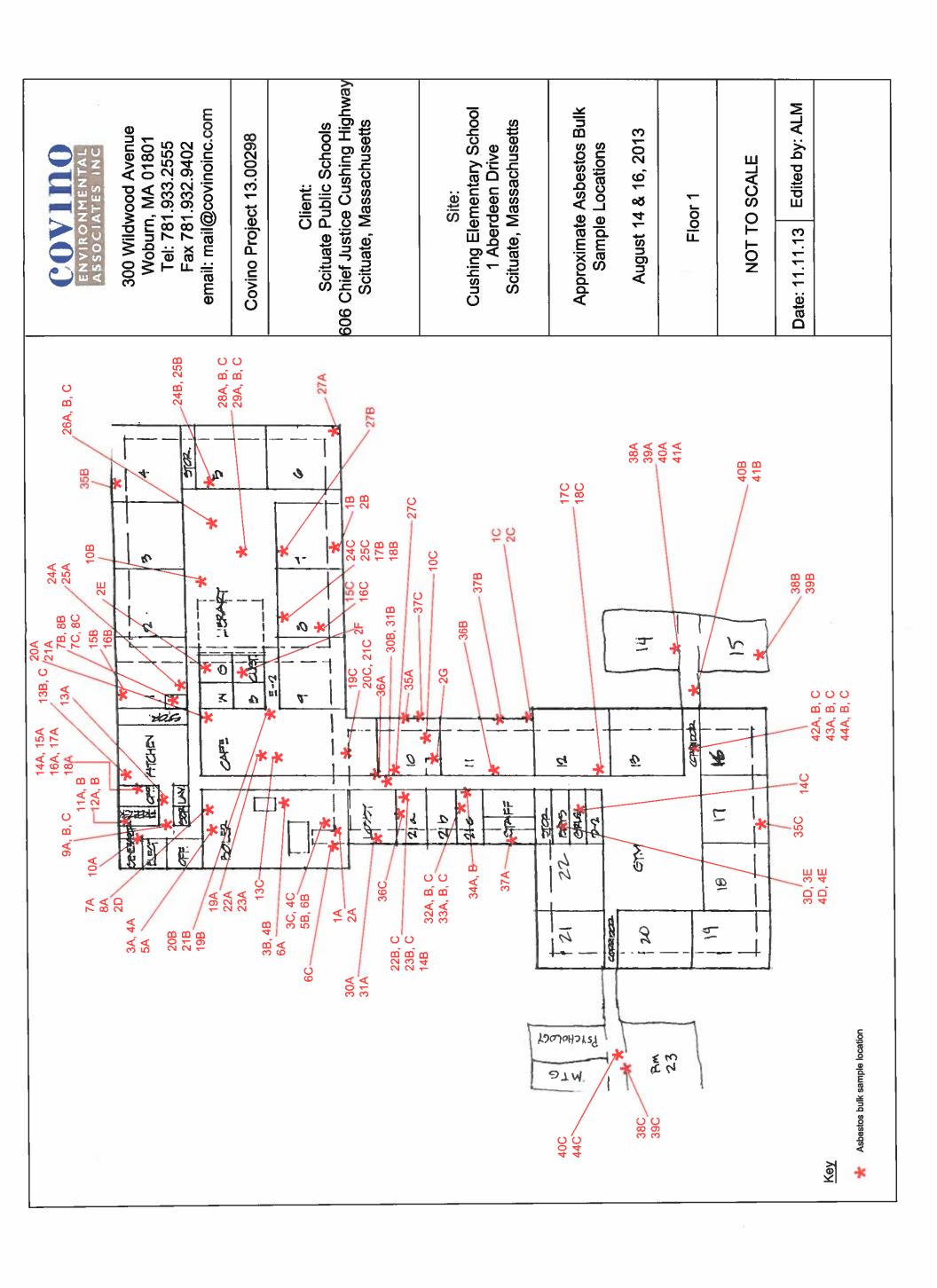
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Accept	Accept Reject Comments		•	-					-			

Page 12 of 23 Asbestos Bulk Chain of Custody Email: mail@covinoinc.com Covino Environmental Associates, Inc. 300 Wildwood Ave, Woburn, MA Phone 781.933.2555 Fax 781.932.9402

		Client:	Schnate Public Schools	chools	ļ			Turnaro	und (circ	le) same d	Turnaround (circle) same day 24-hr (standard (5 day))	Standard (S day
Covino Proje	Coving Project No. 13.00298		600 Chief Justice Cushing Highway	Cushing Hi	ghway			Contact:	Glenn P	otter – 781	Contact: Glenn Potter - 781.706.7317		\
Samples Col	Samples Collected by: Ken Roberts		Scituate, MA 02066	990				Email:	gpotter(gpotter@covinoinc.com	c.com		
License No:	License No: Al-000317 Date(a) Collected: 8/14 Atto 8/16/2013	Project Name	Cushing Elementary, One Aberdeen Drive	tary, One Al	erdeen	Drive							
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APPENDIX F

PERSONNEL CERTIFICATIONS



THE VERTEX COMPANIES, INC.

ACCREDITATION PAGE

Accredited Inspector

Name: Jason Mohre
Accreditation Number: Al000262
Signature:
Date: 5/11/2021
Accredited Management Planner
Accredited Management Planner Name: Jason Mohre
-
Name: Jason Mohre
Name: Jason Mohre



APPENDIX G

SUPPLEMENTAL FORMS



CONTACT INFORMATION

Local Education Agency and School Information

Local Education Agency: Scituate Public Schoo	ls			Telephone Number	: 781-545-8749		
Address: 606 Chief Justice Cushing Hwy Scituate, MA							
Name of School: Cushing Elementary School				Telephone Number	: 781-545-8770		
Address: One Aberdeen Drive Scituate, MA				County: Plymouth C	County		
Designated Person Information							
Name of Designated Person: Robert Dillon				Telephone Number	: 781-545-8749		
Address: 606 Chief Justice Cushing Hwy Scituate, MA							
Course Name:	Training Agency:		Date:	Hours of Training:			
<u> </u>							
Management Planner(s) The following management planner(s) has developed/contributed to this plan and is accredited under the state accreditation program or another state's accreditation program or an EPA-approved course.							
Name: Jason Mohre				Telephone Number: 781-952-6000			
Firm: The Vertex Companies, Inc.							
Address: 400 Libbey Parkway, Weymouth, Mass	sachusett	s 02189					
State of Accreditation/Accreditation Number: MA/AP00080							
Course Name: Asbestos Management Planner Date: 1/28/10 Training Agency: Institute for Environmental Education							
	Tolonhono Number: 800-822-6220						

SCHOOL BUILDING LIST

Name of Building	Address	Construction Date(s)	Friable ACBM*	Non- Friable ACBM	Friable and Non- Friable Suspected ACBM Assumed to be ACM**	No ACBM
Wampatuck Elementary School	266 Tilden Road	1960	X	X	Х	
Cushing Elementary School	One Aberdeen Drive	1963	Х	Х	Х	
Hatherly Elementary School	72 Ann Vinal Road	1963	Х	Х	Х	
Scituate High School	606 Chief Justice Cushing Highway	1967	Х	Х		
Jenkins Elementary School	49 Vinal Road	2003				х
Gates Middle School	606 Chief Justice Cushing Highway	2019	Х	Х		

^{*}ACBM -Asbestos-Containing Building Material **ACM -Asbestos-Containing Material

TF: May 7, 2021

DESIGNATED PERSON ASSURANCES

In accordance with 40 CFR ' 763.93(i) of the Environmental Protection Agency Asbestos-Containing Material in Schools regulation, the undersigned Local Education Agency (LEA) Designated Person (DP) hereby certifies that the following general responsibilities of the LEA under 40 CFR ' 763.84 have been or will be met:

- 1.Ensure that the activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance, are carried out in accordance with Part 763, Subpart E.
- 2. Ensure that all custodial and maintenance employees are properly trained as required by Part 763, Subpart E and other applicable Federal and/or State regulations (e.g., the Occupational Safety and Health Administration asbestos standard for construction, the EPA worker protection rule, or applicable State regulations).
- 3. Ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress.
- 4. Ensure that short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations for Asbestos-Containing Building Materials (ACBM) and suspected ACBM assumed to be Asbestos-Containing Materials (ACM).
- 5. Ensure that warning labels are posted in accordance with '40 CFR 763.95.
- 6. Ensure that management plans are available for inspection and notification of such availability has been provided as specified in the management plan under ' 40 CFR 763.93(g).
- 7. Designate a person to ensure that requirements under '763.84 are properly implemented and ensure that the designated person receives adequate training to perform duties assigned under '763.84. Such training shall provide, as necessary, basic knowledge of: health effects of asbestos; detection, identification, and assessment of ACM; options for controlling ACBM; asbestos management programs; relevant Federal and State regulations concerning asbestos, including those in Part 763, Subpart E and those of the Occupational Safety and Health Administration, U.S. Department of Transportation and the U.S. Environmental Protection Agency.
- 8. Consider whether any conflict of interest may arise from the inter-relationship among accredited personnel and whether that should influence the selection of accredited personnel to perform activities under Part 763, Subpart E.

Name of Designated Person:	
Designated Person's Signature:	Date:

EVALUATION OF RESOURCES

1.	Estimated Resources to Complete the Response Actions	\$ 2,500.00
2.	Estimated Resources to Conduct Re-Inspection	\$ 1,500.00
3.	Estimated Resources to Complete Operations and Maintenance Activities	\$ 500.00
4.	Estimated Resources to Conduct 6-Month Periodic Surveillance	\$ 400.00
5.	Estimated Resources to Conduct Training for Custodial Staff	
	a. LEA-Designated Person Training	\$ 250.00
	b. 16-Hour Operations and Maintenance Training (per Worker)	\$ 295.00
	c. 2-Hour Awareness Training (per Worker)	\$ 75.00

DATE: 5/7/2021

PLAN FOR OPERATIONS AND MAINTENANCE ACTIVITIES

LEA Name: Scituate Public Schools

School Name: Cushing Elementary School

Attach or outline the plan here:



Protecting Workers from the Hazards of Asbestos-Containing Flooring Material Maintenance

Many resilient flooring tiles contain asbestos, a mineral fiber used in numerous building materials before its dangerous health effects were discovered. A hazard exists for workers who buff or wax flooring material containing asbestos. Any floor tiles installed prior to 1980 should be presumed to contain asbestos — unless confirmed to be asbestos-free by a laboratory — and the proper protective actions should be taken. The Occupational Safety and Health Administration (OSHA) has regulations to protect workers from asbestos.

What is the hazard?

The equipment used during the care or maintenance of asbestos-containing flooring tiles has an abrasive pad which runs at high speeds, and can release tiny asbestos fibers into the air.

The airborne fibers can then be inhaled by workers without knowing it, and become trapped in their lungs.

Asbestos is a known human carcinogen and can cause chronic lung disease as well as lung and other cancers.

How do I know if there is a hazard?

Airborne asbestos fibers are very small and cannot be seen by the naked eye.

Flooring materials installed prior to 1980 should be presumed to contain asbestos and should be treated as such, unless a piece of the material is sent to a reputable laboratory and analyzed for asbestos by transmission electron microscopy and found to contain a concentration of less than 1.0%.

What should be done to protect workers?

Workers caring for asbestos-containing flooring material (general industry) are protected by OSHA's Asbestos standard, 29 Code of Federal Regulations (CFR) Part 1910.1001. OSHA has separate asbestos standards for the construction and shipyard industries due to differing working conditions and asbestos exposures.

Training elements of OSHA's Asbestos Standard

Initial and annual training must be provided in a manner and language that workers can understand. The training must include: health effects of asbestos; locations of asbestos-containing and presumed asbestos-containing materials; recognition of damage and deterioration of asbestos-containing materials; and the proper response to fiber release episodes. The following elements should be included in this training:

Care of Asbestos-Containing Flooring Materials

- Do not sand asbestos-containing flooring material;
- · Use only low-abrasion buffing pads;
- Operate buffers only at speeds lower than 300 rpm;
- · Use wet methods;
- If asbestos-containing flooring material has sufficient finish, brushing or dry buffing is permissible.

If these methods are properly implemented, personal protective equipment (PPE) should not be necessary.

Recordkeeping

A record of training and worker notification is necessary. If applicable, any exposure monitoring records and medical monitoring records must also be kept.

OPERATIONS AND MAINTENANCE ACTIVITIES LEA Name: Scituate Public Schools **School Name: Cushing Elementary School** Building Assessed/Address: Room/Functional Space: Provide the description of the activity, including preventative measures used, and the location where the activity occurred for those operation and maintenance activities specified under 40 CFR 763.91(d) and under 40 CFR 763.94(g), for any major asbestos activity conducted under 40CFR763.91(e): Provide the start and completion dates of the activity: Provide the name of each person performing the activity and for a major asbestos activity, provide the name, signature, state of accreditation and, if applicable, the accreditation number of each person performing the activity:

If ACBM is removed, provide the name and location of the storage or disposal site of the ACM:

CLEANING RECORD

LEA Name: Scituate Public Schools	
School Name: Hatherly Elementary School	
Cleaning: (check one) [] Cleaning after initial inspection [] Additional cleaning approved by LEA under O&M Plan.	
Date of Cleaning:	
Location of Cleaning:	
Cleaning Methods Used :	
Provide the name of each person performing the cleaning	

MAJOR/MINOR FIBER RELEASE EPISODE

LEA Name:	Scituate Public Schools
School Name: (Cushing Elementary School
Type of Episode	: (check one) [] Major Fiber Release [] Minor Fiber release.
Date of episode	<u>.</u>
Provide the descresponse action	cription of the fiber release episode, including the location, type of ACBM, method of repair, and preventative measure or taken:
	·
Provide the nam	nes of each person performing the work:
	·
If ACBM is remo	ved, provide the name and location of the storage or disposal site of the ACM

PERIODIC SURVEILLANCE

AHERA Six-Month Surveillance Inspection Date:						
(Print Name):						
(Print Name):						
Signature:						
Cushing	Elementary School-On	e Aberdeen D	rive			

Location	ACBM Description	Estimated Quantity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
	First Flo	oor						
Girls Bathroom by Room 1	Pipe Fitting Insulation (Above Ceiling)	13 Units	U					
Room 1	9" x 9" Gray Floor Tile	770 ft ²	MD (30 ft ²)					
	Black Floor Tile Mastic	770 ft ²	С					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft ²	G					
Room 2	9" x 9" Gray Floor Tile	770 ft ²	MD (20 ft ²)					
	Black Floor Tile Mastic	770 ft ²	С					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft ²	G					
Room 3	9" x 9" Gray Floor Tile	770 ft ²	MD (16 ft ²)					
	Black Floor Tile Mastic	770 ft ²	С					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft ²	G					
Room 4	9" x 9" Gray Floor Tile	770 ft ²	MD (10 ft ²)					
	Black Floor Tile Mastic	770 ft ²	С					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft ²	G					
Room 5	9" x 9" Gray Floor Tile	770 ft ²	MD (2 ft ²)					
	Black Floor Tile Mastic	770 ft ²	С					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft ²	G					
Room 6	9" x 9" Gray Floor Tile	770 ft ²	MD (6 ft ²)					
	Black Floor Tile Mastic	770 ft ²	С					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft ²	G					

AHERA Six-Month Surveillance Inspection Date:
(Print Name):
Signature: Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estima Quan	ated	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
	First Flo								
Hall Between Rms 6 and 7	9" x 9" Green Floor Tile	256		G					
	Black Floor Tile Mastic		ft ²	С					
Room 7	9" x 9" Gray Floor Tile	770	ft ²	MD (30 ft ²)					
	Black Floor Tile Mastic	770	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Room 8	9" x 9" Gray Floor Tile	770	ft ²	G					
	Black Floor Tile Mastic	770	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Room 9	9" x 9" Gray Floor Tile	770	ft ²	MD (30 ft ²)					
	Black Floor Tile Mastic	770	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Library	9" x 9" Gray Floor Tile (Under Carpet)	2880	ft ²	С					
	Black Floor Tile Mastic	2880	ft ²	С					
Custodian Attic Area by Library	Pipe Fitting Insulation	27	Units	MD (2)					
Kitchen	Ceramic Floor Tile Adhesive	1920	ft ²	С					
Kitchen Office Area	9" x 9" Gray Floor Tile	84	ft ²	G					
	Black Floor Tile Mastic	84	ft ²	С					
	Pipe Fitting Insulation	2	Units	G					
Kitchen Storage/Freezer Room	Pipe Fitting Insulation	17	Units	G					
General Storage	Pipe Fitting Insulation	15	Units	G					
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	3000	ft ²	MD (40 ft ²)					
	Black Floor Tile Mastic	3000	ft ²	С					

AHERA Six-Month Surveillance Inspection Date:
(Print Name):
Signature:
Cushing Elementary School-One Aberdeen Drive

April April Oct. Oct. April Oct. ACBM **Estimated** 2023 Location 2021 2021 2022 2022 2023 Description Quantity Cond. Cond. Cond. Cond. Cond. Cond. First Floor 500 ft² Lobby 9" x 9" Green Floor Tile (Painted Gray) G 500 ft² С Black Floor Tile Mastic 9" x 9" Green Floor Tile (Painted Gray) 608 ft² G Room 21A-Nurse 608 ft² Black Floor Tile Mastic C 16 If G **Interior Window Glazing** 9" x 9" Green Floor Tile (Painted Gray) 288 ft² G Room 21B Black Floor Tile Mastic 288 ft² С 150 ft² Drywall G 150 ft² Joint Compound G Cementitious Panel below Window 24 ft² G 384 ft² Room 21C 9" x 9" Green Floor Tile (Painted Gray) G 384 ft² C Black Floor Tile Mastic 150 ft² Drywall G 150 ft² Joint Compound G 48 ft² Cementitious Panel below Window G Room 21C Closet Pipe Fitting Insulation 2 Units NF Staff Room 9" x 9" Green Floor Tile (Painted Gray) 672 ft² G 672 ft² С Black Floor Tile Mastic 30 ft² 9" x 9" Green Floor Tile (Painted Gray) G Faculty Men's Room 30 ft² **Black Floor Tile Mastic** C 30 ft² Faculty Women's Room 9" x 9" Green Floor Tile (Painted Gray) G 30 ft² C Black Floor Tile Mastic Faculty Room Closet 3 Units G Pipe Fitting Insulation Black Floor Tile Mastic 1 Unit G

Oct.

AHERA Six-Month Surveillance Inspection Date:	-
(Print Name):	
(Fine Name).	
Signature:	
Cushing Elementary School-One	Aberdeen Drive

April

Oct.

April

Oct.

April

ACBM Estimated Location 2021 2021 2022 2022 2023 2023 Description Quantity Cond. Cond. Cond. Cond. Cond. Cond. First Floor 9" x 9" Gray Floor Tile 1026 ft² G Room 10 Black Floor Tile Mastic 1026 ft² С G Pink Sink Mastic 1 Unit 90 ft² G Cementitious Panel below Window 20 If G **Interior Window Glazing** 112 ft² Room 10 Closet 9" x 9" Gray Floor Tile G 112 ft² G Black Floor Tile Mastic 22 Units Pipe Fitting Insulation G 1026 ft² 9" x 9" Gray Floor Tile G Room 11 1026 ft² Black Floor Tile Mastic C G Pink Sink Mastic 1 Unit Cementitious Panel below Window 90 ft² G 1026 ft² Room 23 9" x 9" Gray Floor Tile G 1026 ft² С Black Floor Tile Mastic G Pink Sink Mastic 1 Unit 90 ft² Cementitious Panel below Window G 1472 ft² G 9" x 9" Green Floor Tile (Painted Gray) Main Hallway 1472 ft² С Black Floor Tile Mastic lf Interior Window Glazing G 80 Custodian/Gym Storage Pipe Fitting Insulation 16 Units G Boys Room by Room 12 Pipe Fitting Insulation 7 Units C

7 Units

2500 ft²

2500 ft²

U

G

С

Pipe Fitting Insulation

Black Floor Tile Mastic

12" x 12" White Floor Tile

Girls Room by Room 12

Gym

AHERA Six-Month Surveillance Inspection Date:	
(Print Name):	
Signature:	
	Cushing Elementary School-One Aberdeen Drive

	ACBM	Estimated		April	Oct.	April	Oct.	April	Oct.
Location	Location Description Quan		ntity	2021	2021	2022	2022	2023	2023
		•	Cond.	Cond.	Cond.	Cond.	Cond.	Cond.	
	First Floor		- 2	_		I	T		
Phys Ed. Office	9" x 9" Black Floor Tile	112		G					<u></u>
	Black Floor Tile Mastic	112	ft ²	С					
Room 12	9" x 9" Gray Floor Tile	900	ft ²	MD (10 ft ²)					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	72	ft ²	G					1
Room 13	9" x 9" Gray Floor Tile	900	ft ²	G					
	Black Floor Tile Mastic	900	ft ²	С					1
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Hall Between Rms 13 and 16	9" x 9" Green Floor Tile (Painted Gray)	184	ft ²	G					
	Black Floor Tile Mastic	184	ft ²	С					<u> </u>
	Interior Window Glazing	40	lf	G					1
Room 16	9" x 9" Gray Floor Tile	900	ft ²	MD (10 ft ²)					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					İ
	Cementitious Panel below Window	42	ft ²	G					
Room 17	9" x 9" Gray Floor Tile	900	ft ²	MD (4 ft ²)					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Room 18	9" x 9" Gray Floor Tile	900	ft ²	G					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					

AHERA Six-Month Surveillance Inspection Date:
(Print Name):
Signature:
Cushing Flamontary School One Aberdeen Drive

Location	ACBM Description	Estin	nated ntity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
	First Floor								
Room 19	9" x 9" Gray Floor Tile	900	ft ²	G					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Room 20	9" x 9" Gray Floor Tile	900	ft ²	G					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Hall Between Rms 20 and 21	9" x 9" Green Floor Tile (Painted Gray)	240	ft ²	G					
	Black Floor Tile Mastic	240	ft ²	С					
Room 21	9" x 9" Gray Floor Tile	900	ft ²	G					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Room 22	9" x 9" Gray Floor Tile	900	ft ²	G					
	Black Floor Tile Mastic	900	ft ²	С					
	Pink Sink Mastic	1	Unit	G					
	Cementitious Panel below Window	42	ft ²	G					
Crawl Space off Boiler Room	Pipe Fitting Insulation	360	Units	G					

Notes:

Unit = Each

ft² = Square Foot Cond. = Condition

U = Unknown C = Covered NA = Not Accessible

If = Linear Foot G = Good

MD = Minor Damage

TRAINING RECORDS

20 4/21/21

VBRTBX®

Two-Hour Asbestos Awareness Training Attendance Sheet

Instructor: Jason Mohre (The VERTEX Companies, Inc.)

1:00 1:00 1:00	Dene Olman Just 248
1:00	Dene Olman
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VERTEX

Two-Hour Asbestos Awareness Training Attendance Sheet

Instructor: Jason Mohre (The VERTEX Companies, Inc.)

nstructor: Jason Mohre (The VERTEX Printed Name	Date	Time	Time	Signature
		In	Out	
Corne Bortlett	4/21	12:00	-2	Some Rolle
FAVE By LENS	1	1(2-	Car Be
Steve Boneti	11	(2	Stro poner
William Chrisian	l j	11	8	Cal
Joseph Connelly	11	11	out	In Con
Bob Stafford	4/21	12:00	2: co	not graff
A: HON GARRIEL OF SANT		12:00	2:00	Ath. gols o sen
Travor Tubridy	4/21	12:00	2:00	
FLED: SON SON SONTON	4-21	12:00	2:00	A.
Donna Street	4.21	12:00	2:00	D. Stree
	21			

VERTEXY

PLAN TO INFORM

Under 40 CFR ' 763.93(g)(4), at least once each school year, the LEA must notify in writing parent, teacher, and employee organizations of the availability of the Asbestos Management Plan (AMP) and must include in the AMP, a description of the steps taken to notify such organizations, and a dated copy of the notification. In the absence of any such organizations for parents, teachers, or employees, the LEA must provide written notice to that relevant group of the availability of the AMP and must include in the AMP a description of the steps taken to notify such groups, and a dated copy of the notification.

Under 40 CFR ' 763.93(e)(10), the AMP must include a description of the steps taken to inform workers and building occupants, or their legal guardians, about inspections, re-inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress. Under 40 CFR ' 763.84(c), the LEA must inform them about these activities at least once each school year.

Tips for Superintendents – Sample Annual Written Notification

SAMPLE: Schools may adapt or expand this sample template in order to comply with minimum requirements to provide annual notification to staff and guardians. Keep a dated copy in each school's Management Plan. For more assistance with AHERA compliance, visit www.mass.gov/dols/ahera

INSERT YOUR LETTERHEAD

ANNUAL ASBESTOS NOTIFICATION LETTER

For School Year 2013-2014

Date: September 20##
Dear Staff, Guardians and Students:
A copy of our district's Asbestos Management Plan is available in each school and at the main administrative office during regular school hours.
The district continues to update and improve the AHERA Asbestos Management Plans. Any inquiries regarding the management of asbestos—containing materials in our schools should be directed to our district's AHERA Designated Person, (name) who can be reached at (work location), and (email) and (phone)



Guidance for Superintendents – Sample Template for Notification to Contractors and Short-Term Workers about Asbestos

Background:

Schools must notify contractors and short-term workers who perform work in the building about the presence of asbestos-containing materials in the vicinity of their work area. The intent is twofold: 1) material should not be accidentally disturbed which could result in occupant exposure or building contamination; and 2) if work will disturb the material, the contractor must use trained, licensed workers and use work practices to prevent occupant exposure and building contamination.

The school may decide the most efficient and effective method for notification. Some schools elect to notify contractors when contracts are awarded. Some schools use a "log-in book" to confirm that all employees of the contractor visiting the school on that particular day are notified about the presence of asbestos-containing materials in the building.

Contractors include electricians, plumbing and heating, HVAC, flooring, and Information Technology. For example, before an IT vendor installs wiring above a suspended ceiling, the school's Asbestos Management Plan should be referenced to determine if the ceiling tiles contain asbestos, and determine if there is spray-on insulation or textured plaster above the ceiling which contain asbestos. Dust control work practices, and worker asbestos training, must be used if asbestos-containing materials will be disturbed. At the completion of work, the area may require O&M cleaning with wet methods or HEPA vacuums.

NOTICE TO CONTRACTORS

This notice must be signed by all contractors and vendors conducting work in the schools. The original copy will be maintained in the school office. Each contractor must sign into the school Visitor's Log and complete a copy of this Notice.

	All contractors who perform work in theXX School September 2013							
RE:		Presence of Asbestos-Containing-Materials in the XX School						
Your v	vork in the	School may disturb As	sbestos-Containing Materials.					
A diag	ons of Asbestos-Cont ram of known and pres als include: (list mate	sumed asbestos-containing m	aterials is attached to this notice.					
	Ceiling tiles Floor tiles – all 9x9 ar Boiler insulation Pipe elbow insulation Spray-on textured ceil							
Distur	• If you suspect		tos, contact the district Designated efore disturbing it.					
	 Personnel mus 	st be trained and authorized to	disturb asbestos-containing materials.					
	school occupa does not conta	nts are not exposed to asbesto	ntenance procedures to ensure that os dust, and ensure that asbestos dust nsed Asbestos Contractor is required et is disturbed.					
		os-containing materials locate onstrate that the material does	d in non-public mechanical areas. The not contain asbestos.					
been n		of asbestos-containing mater	eceptionist as agreement that you have ials, and your acceptance that you will					
Printed	l name:	Signat	ure:					
Compa	any:	Date:						