CDW CONSULTANTS, INC.
CIVIL & ENVIRONMENTAL ENGINEERS

LIMITED HAZARDOUS MATERIALS SUMMARY REPORT

Fuller Middle School
31 Flagg Drive
Framingham, Massachusetts

Prepared for

Jonathan Levi Architects
266 Beacon Street Boston MA 02116

November 2017

CDW Project # 1597.0

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1.0 INTRODUCTION

CDW Consultants, Inc. (CDW) is pleased to present this letter report summarizing the findings of the limited suspect asbestos-containing materials (ACM), and hazardous materials inspection of the Fuller Middle School (Site). The scope of work was to review previous United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) reports and conduct an inspection to identify and quantify suspect ACM, lead based paint (LBP), and visually identify hazardous materials located in the building. The inspection was conducted in support of a feasibility study for Site renovations.

In October 2017, Ms. Susan Cahalan, (Massachusetts DOS Asbestos Inspector #AI60784) conducted a visual interior and exterior building inspection for suspect materials.

2.0 GENERAL SITE CONDITIONS

Constructed in 1958 as the Framingham South High School, the building is currently used as Fuller Middle School. The Fuller Middle School houses grades 6-8. Fuller is also home to the Framingham Public Access Television Station that occupies 8,000 square feet (SF) of building space. In addition, the Buildings and Grounds Department houses its operations and storage for vehicles and equipment occupying approximately 15,000 SF of building space.

The Site building is a one-story cast-in-place concrete structure founded on precast concrete piles. The roof structure is gypsum concrete. Exterior walls are single-glazed aluminum store front with some areas of brick masonry. Two-thirds of the building area has a dirt floor crawl-space beneath it. The interior is concrete masonry block painted. Ceilings are mixed ceiling tectum with suspended ceilings in select areas throughout the building including the auditorium. Flooring is vinyl composite tile with some known to contain asbestos. Select rooms have carpet. Doors, frames and hardware are original.

The building is comprised of approximately 100 rooms of which 50 are classrooms with an average size of 732 SF. There are five science classrooms and one science laboratory with an average size 871 SF. There are two gymnasiums (one at 9,500 SF and one at 5,000 SF) and one 6,800 SF auditorium. The building was constructed on structural piles and caissons with a crawl space and a dirt floor beneath the entire building.

No additions have been made to the building since it was originally constructed. Framingham South High School became Fuller Middle School in 1995 without major capital improvement. The following capital projects and improvements have been completed at Fuller Middle School:

- 1995 Roof Replacement
- 2005 Converted heating system from oil to natural gas
- 2005 Replaced boilers, boiler room pipe abatement
- 2007 Auditorium Improvements

The heating system is comprised of 3 natural gas fired boilers and the majority of the building is hydronic forced hot water. Ventilation is provided through AHUs in the crawl-space and classroom unit-ventilators. The electrical system has original switch gear.

3.0 AHERA REPORTS SUMMARY

CDW reviewed the AHERA report, prepared by Fuss & O'Neill EnviroScience, dated June 2016 and the Survey Report, prepared by Universal Environmental Consultants, ND.

ACM findings of the Universal Environmental Consultants Report are presented in the below table:

Material	Location	Quantity
Vinyl Floor Tile and Mastic	Throughout	106,000 SF
Pipe and Hard Joint Insulation	Throughout	6,500 LF
Interior Windows and Doors	Throughout	400 Each
Blackboards	Throughout	200 Each
Flex Connectors	Throughout	15 Each
Roof Drain Insulation	Throughout	450 LF
Transite Board	Science Rooms	220 SF
Wood Flooring Paper and Mastic	Stage	500 SF
Wire Insulation	Stage	60 LF
Wood Flooring, Paper and Mastic	Gym	8,000 SF
Windows	Exterior	400 Each
Doors	Exterior	30 Each
Univent Caulk	Exterior	40 each

ACM findings from the Fuss & O'Neill EnviroScience AHERA Report are presented in the below table:

Material	Location	Asbestos Content	Quantity
Mudded Pipe Insulation	Basement Storage Room, Crawlspace, A3, A27, A17, A37, C-13, C18, C-15, C-16, D-31 Pipe Tunnel, D-32, B-37, West Penthouse on Roof	5% Chrysotile	575 Each
Corrugated Paper Type Pipe Insulation	Basement Storage Room, Crawlspaces A, B, C & D, A3, A27, A17, A37, C-13, C-17 and 18, C-15, C-16, D-31 (Pipe Tunnel), D-32, B-37A, West Penthouse on Roof	80% Chrysotile	6,210
Vibration Isolators	Crawlspaces, A-21, B-1A, B-26, C-13, D-9	PACM	25 Each
Roof Drain Insulation	A-24, B-8, B-18, B-15A, B-20, B-22, B-28, B-46, C-8, C-27, C-22, C-09, C-15, D-31, D-16, D-29, D-33	Sampled, Positive	20 Each
Fiber Reinforced Paneling	B-9-Lab Hood, D-31 Exhaust Vent, D-6-Upper Wall at Vent	15% Chrysotile	210 SF
Wire Insulation	Stage	PACM	60 LF
Fire Curtain	Stage	PACM	1 Each

Material	Location	Asbestos Content	Quantity
9x9 Floor Tile and Associated Mastic	Hall to Auditorium Stage, Hall outside Boy's Locker Room, Hall outside: C-14, B-32, B-35, B-37, B-39, A-8, C-1, B-1, B-3, B-4	2%-3% Chrysotile	105,300 SF

Items that do not contain ACM, from the Fuss & O'Neill EnviroScience AHERA Report are presented in the below table:

Material	Location
Spray-On Fire Proofing	Basement Stooge Room Ceiling
Red, Orange, Tan Mottled 12x12 Floor Tile and Associated Mastic	C17 Women's Bathroom
White and Beige Mottled 12x12 Floor Tile and Associated mastic	Hallway Outside B-4
Black Vinyl Baseboard and Associated Mastic	Classrooms, Hallways, Offices Throughout

4.0 ASBESTOS SURVEY

4.1 Methods

The investigative work for the asbestos survey included conducting a limited visual inspection of physically accessible areas of the interior and exterior of the building. Bulk samples of representative suspect materials identified were collected in a random manner in accordance with USEPA and OSHA regulatory guidelines. Once the visual inspection was completed, the building components were categorized into homogeneous areas. A homogenous area is an area that is similar in color, texture and date of application. Hand tools were used to collect bulk samples which were promptly placed in sealed plastic bags using a unique numbering system. Samples were not collected of non-suspect materials, including wood, fiberglass, plastic/vinyl, ceramic, concrete, neoprene/rubber, glass, and carpeting.

The bulk samples were delivered under chain of custody to Asbestos Identification Laboratory, Inc. (AIL) located in Woburn, Massachusetts, a NVLAP-accredited laboratory for asbestos analysis. Bulk samples were analyzed for asbestos content by polarized light microscopy (PLM) using EPA Method 600/R-93/116. A positive stop method was used – if one sample in a homogeneous group is positive then additional samples of the same material are not analyzed. The asbestos analytical results are provided in Attachment A. Samples analyzed to contain greater than 1% asbestos are to be treated as

ACMs as defined by the USEPA and Commonwealth of Massachusetts Department of Environmental Protection (MassDEP).

4.2 Findings

Findings of the limited sampling are presented in the below table:

Laboratory ID	Description	Location	Condition	Result
1A, 1B, 1C	Interior Window Glaze on 4x4 Chix Wire Windows	Classrooms to Hall – C Classrooms C-15, C-11, C-10	Good	2% chrysotile
2A, 2B	Interior Window Glaze	Sidelight Hall Door Assembly Near C15	Good	ND
3A, 3B	Interior Window Glaze on Door	Hall Assembly Near C15	Good	ND
4A, 4B, 4C	Interior Window Glaze on 4x4 Chix Wire Windows	Classrooms to Hall – B Classrooms B-17, B-15A, B-21	Good	ND
5A, 5B	Interior Window Glaze on Sidelights	Hall Door Assembly Near B-17	Good	ND
7	Black Sink Coating	B5-Science, Standard Sink	Good	5% Chrysotile
8A, 8B	Interior Window Glaze	A-5, Adult ESL Wood Framed Window	Good	2% Chrysotile
9A, 9B, 9C	Interior Window Glaze on 4x4 Chix Wire Windows	Classrooms B-5, B-7, B10	Good	2% Chrysotile
10A, 10B, 10C	Interior Window Glaze on Chix Wire Wood Framed Windows	Near A-12, A-13	Good	3% Chrysotile
11A, 11B, 11C	Interior Window Glaze	Fancy Wood Framed Windows at Library	Good	2% Chrysotile

Laboratory ID	Description	Location	Condition	Result
12A, 12B, 12C, 12D, 12E	Interior White/Gray Caulk	Between Steel Beams and CMU in Classrooms-Classroom #s B-11, B-24, B-41, B-32, B-41	Painted, Good	10% chrysotile
13A, 13B, 13C, 13D, 13E	Interior Hard Yellow Caulk	Between Steel Beams and CMU ½ Wall Interior Side of Courtyard	Painted, Good	5% chrysotile
14A, 14B	Interior White Caulk	Between Steel Beam and Brick Near Door #9	Painted, Good	3% Chrysotile
15A, 15B, 15C, 15D, 15E, 15F, 15G	White 2x2 Ceiling Panel	Ceiling, Hall Outside Library, Main Offices	Good	ND
16A, 16B, 16C, 16D, 16E, 16F, 16G	Yellow Insulation	Under White 2x2 Ceiling Panels	Good	ND
17A, 17B, 17C, 17D, 17E, 17F, 17G	White 2x4 Ceiling Panel	Ceiling, Hall Outside B-20, A-18, B-48, Main Entrance Hall, Hall, Outside C-14, Hall Near Door 16, Hall Near Fitness Center	Good	ND
18A, 18B, 18C, 18D, 18E, 18F, 18G	Yellow Insulation	Under White 2x4 Ceiling Panels	Good	ND
19A, 19B, 19C, 19D, 19E, 19F, 19G	Exterior Gray Window Caulk	At the Sides of Window Banks	Poor	5% Chrysotile
20A, 20B	Exterior Thick, Chunky Window Glaze	2x2 Windows Near Kitchen	Fair	ND
21	Exterior Door Caulk	Door 16	Good	2% Chrysotile
22	Exterior Door Caulk	Door 11	Good	2% Chrysotile

Laboratory ID	Description	Location	Condition	Result
23	Exterior Door Caulk	Door 9	Good	2% Chrysotile
24A, 24B	Exterior Brown Fibrous Expansion Joint	Foundation	Fair	ND
25A, 25B, 25C, 25D, 25E, 25F, 25G	Exterior Gray Window Glaze	Window Banks, Interior Side of Exterior Window	Poor, Damp from Leaks	2% Chrysotile

The quantities for the limited sampling combined with the visual survey and AHERA report are provided in the attached Table 1. The laboratory analytical report is provided in Appendix A.

3.3 Recommendations

The limited inspection was conducted for feasibility. It is recommended a full destructive survey be conducted. Prior to disturbance, the ACM identified must be abated by a Commonwealth of Massachusetts-licensed asbestos abatement contractor following all federal, state & local regulations governing asbestos abatement. A copy of the asbestos Waste Shipment record must be received within 30 days of removal from the Site. Asbestos air quality sampling must be conducted under USEPA regulations following asbestos abatement and prior to re-occupancy of the spaces. If additional materials are discovered that have not been sampled, those materials should be considered ACMs until laboratory analysis determines otherwise.

4.0 LEAD-BASED PAINT

4.1 Methods

CDW performed a visual inspection of painted surfaces. CDW collected samples from different color paints on various types of building component substrates. Samples were submitted to EMSL Laboratories in Cinnaminson, New Jersey for analysis via atomic absorption spectrometry (AAS).

4.2 Findings

The results of the laboratory analysis are provided in the below table:

Laboratory ID	Description	Result (% Weight)
LP-1A	Blue over Yellow Paint on Steel Beams	0.69
LP-1B	Blue over Yellow Paint on Steel Beams	0.15
LP-1C	Blue over Yellow Paint on Steel Beams	0.14
LP-1D	Blue over Yellow Paint on Steel Beams	0.079

Laboratory ID	Description	Result (% Weight)
LP-1E	Blue over Yellow Paint on Steel Beams	0.27
LP-2A	Dark Blue Over Light Blue Paint on Steel Beams	0.056
LP-2B	Dark Blue Over Light Blue Paint on Steel Beams	0.11
LP-2C	Dark Blue Over Light Blue Paint on Steel Beams	0.062
LP-2D	Dark Blue Over Light Blue Paint on Steel Beams	0.49
LP-2E	Dark Blue Over Light Blue Paint on Steel Beams	0.51
LP-3A	Light Blue Paint on Steel Beams	<0.0080
LP-3B	Light Blue Paint on Steel Beams	0.036
LP-3C	Light Blue Paint on Steel Beams	0.019
LP-3D	Light Blue Paint on Steel Beams	<0.011
LP-3E	Light Blue Paint on Steel Beams	<0.0080
LP-4	Gray/White Paint on Exterior CMU Near Kitchen	<0.0080
LP-5	Gray/White Paint on Exterior Window Panels	<0.0080

The USEPA defines LBP as any paint or surface coating that contains lead equal to exceeding one milligram per square centimeter (1.0 mg/cm2) or 0.5% by weight. Two samples contain lead above 0.5% by weight. The laboratory analytical report is included in Attachment B.

Recommendations

Based on the conclusions of this testing, the following recommendations are offered:

- Removal of the LBP is not required. However, in accordance with the EPA Lead Renovation, Repair, and Painting (RRP) Rule 40 CFR 745, workers, visitors and the general public must be protected from lead dust generated during the demolition of LBP or LCP coated surfaces.

- Components identified to contain the presence of lead should not be disturbed in an uncontrolled manner. Disturbance of these materials should only be done by properly trained personnel in a controlled and documented manner to allow for the safety of the workers, bystanders and disposal of waste materials.

- Those components/colors not tested, or in locations not inventoried in this report, should be sampled for lead content prior to disturbance that may cause airborne release of lead.

5.0 OTHER HAZARDOUS MATERIALS SURVEY

OHM Visual Inspection

CDW visually inspected the Site building for universal, special and hazardous wastes associated with building materials. These included but were not limited to the following:

- Mercury-containing devices (fluorescent light tubes, thermostats, gauges, etc.);
- Polychlorinated bi-phenyl (PCB)-containing articles, equipment and devices (light ballasts, electrical switches, etc.);
- Chlorofluorocarbon (CFC)-containing equipment (refrigerants, air conditioners/HVAC equipment, water bubblers, etc.)
- Tritium-containing devices (Exit signs);
- Lead-Acid batteries (emergency lights, etc.); and
- Pressurized-cylinders (fire extinguishers, etc.).

5.1 Findings

OHM

The visual survey for hazardous materials identified mercury-containing light tubes, PCB-containing light ballasts, mercury containing thermostats and switches, lead and tritium batteries, refrigerants and other hazardous materials. No hazardous materials sampling or analysis was conducted as part of this preliminary survey. A list of OHMs identified are included in the below table.

Material Description	Location	Est. Quantity	Units
Compact Fluorescent Bulbs	Throughout	200	EA
Fluorescent Bulbs (Mercury)	Throughout	18,000	Tubes

Material Description	Location	Est. Quantity	Units
DPHE and Electronic Light Ballasts	Throughout	9,000	Each
Thermostats and Switches (Mercury)	Throughout, Mechanical and HVAC	500	Ampules
Emergency Light Batteries (Lead)	Throughout	80	EA
Refrigerants Associated with HVAC	Throughout	5,000	Gallons
Fire Extinguishers (Compressed Gas)	Throughout	150	EA
Refrigerants Associated with Water Bubblers	Throughout	25	Gallons
Exit Signs (Tritium)	Throughout	150	EA
Air Conditioning Units	Sporadic, Window Mounted	100	EA
Chemicals (Mercury and Lead)	Science Sink Traps	25	Gallons
Laboratory Chemicals	Science Labs	NA	NA
Older Door Retractors, (Hydraulic Oil Dampers)	Exit Doors, A Wing Offices, Door Assemblies, Cafeteria, Gym, Locker Rooms, Main Offices, Bathrooms	150	EA
Welding Supplies, Gases	Maintenance Shop	--	Re-use
Hydraulic Fluid	Automotive Shop – Old Lift Reservoirs Under Floor	100	Gallons
PCB Fluid	Old Transformer	150	Gallons

5.2 Recommendations

Prior to removal, light tubes, ballasts, compact florescent bulbs, lead and tritium batteries, thermostats and switches will require proper handling, removal, transportation and off-site recycling/reclamation. Hydraulic oil from the door retractors, automobile lifts and refrigerants will require handling and disposal in accordance with regulations. Any sludge in the science sink traps and acid tank will need to be sampled for laboratory analysis of lead and mercury via TCLP to determine proper disposal requirements. Laboratory chemicals should be properly stored, in their original containers, and are recommended for re-use.

Limitations

The conclusions are limited to the information available at the time of the field survey and the scope of services, as defined. No subsurface soil or groundwater testing was performed. Where access to portions of the Site or to structures on the site was unavailable or limited, CDW renders no opinion as to the presence of hazardous material or the presence of indirect evidence related to hazardous material in that portion of the site or structure. This report cannot be solely relied upon for demolition. The testing performed forms the basis for conclusions expressed and areas inaccessible for testing limits those conclusions. No other conclusions, interpretations or recommendations are contained or implied in this report other than those expressed. No other use of this report is warranted without the written consent of CDW Consultants, Inc.

CDW appreciates the opportunity to provide our services to you on this project.

Very truly yours,

CDW CONSULTANTS, INC.

Susan Cahalan, PG, ISSP-SA
Project Manager

TABLES

TABLE 1
ACM Quantities
Fuller Middle School
Framingham, Massachusetts

HA No.	Material Description	Laboratory Sample No. and AHERA	NESHAP Cat.	Location	Est. Quantity	Units
1	Pipe Fittings and Insulation	AHERA and Visual	Cat. 2 Friable ACM	Behind Walls, Crawlspace etc.	17,000	LF
2	Roof Drain Insulation	AHERA and Visual	Cat. 2 Friable ACM	A-24, B-8, B-18, B-15A, B-20, B-22, B-28, B-46, C-8, C-27, C-22, C-09, C-15, D-31, D-16, D-29, D-33	450	LF
3	Gaskets	Visual	Cat I. Non Friable ACM	On Steam and Hot Water Lines and Valves, Crawlspace	250	EA
4	Round Light Gaskets	Visual	Suspect ACM, Not Sampled	Round Lights in Boiler Room Area	25	EA
5	ACM Debris on Soil	Visual	Cat. 2 Friable ACM	Dirt Floor of Crawlspace	25	CY
6	Vibration Isolators on HVAC	AHERA and Visual	Cat. 2 Non Friable ACM	Crawlspace, HV-1, HV-2, HV-3, HV-4, HV-5, HV-6, HV-7, HV-8, HV-9, HV-10, HV-11, HV-12, HV-13, HV-14, A-21, B-1A, B-26, C-13, D-9	40	EA
7	9x9 Floor Tiles and associated Mastic	AHERA and Visual	Cat I. Non Friable ACM	Throughout, Halls Outside Auditorium and Locker Rooms, Halls outside C-14, B-32, B-35, B-37, B-39, A-8, C-1, B-1, Select Classrooms	108,000	SF
8	Wood Flooring Paper and Mastic	AHERA	Cat. 2 Non Friable ACM	Stage and Music Room Stage	4,000	SF
9	Wood Wall Paneling Glue	PACM	Suspect ACM, Not Sampled	Auditorium	2,000	SF
10	Wire Insulation	AHERA	Cat. 2 Non Friable ACM	Auditorium Stage	60	LF
11	Fire Curtain	AHERA and Visual	Cat. 2 Non Friable ACM	Auditorium Stage	1	EA
12	Wood Flooring Paper and Mastic	AHERA	Cat. 2 Non Friable ACM	Gym and Fitness Center	14,500	SF
13	Fiber Reinforced Paneling	AHERA	Cat. 2 Non Friable ACM	B-9 Lab Hood, D-31 Exhaust Vent, D-6 Upper Wall Vent	210	SF
14	Mastic Behind Heaters	PACM	Suspect ACM, Not Sampled	Classrooms	3,200	SF
15	Slate Board Glue Daubs	PACM	Suspect ACM, Not Sampled	Classrooms, Average 3 Per Classroom	250	EA
16	Black Science Table Tops	PACM	Suspect ACM, Not Sampled	Science	320	SF
17	Interior Window Glaze	1A, 1B, 1C, 9A, 9B, 9C,	Cat . 2 Non Friable ACM	At Classrooms and Hall Intersection B Classrooms, C Classrooms, D Classrooms	550	EA
18	Interior Window Glaze	8A, 8B, 10A, 10B, 10C, 11A, 11B, 11C	Cat. 2 Non Friable ACM	Fancy Wood Framed Windows at Admin Offices, "A" Offices, Library. 4x4, 8x4 and 2x4 Sections	150	EA
19	Black Sink Coating	7	Cat. 2 Non Friable ACM	Standard Sinks, B-5, Art, Nurses, Other Areas	30	EA
20	Interior White-Gray Caulk	12A, 12B, 12C, 12D, 12E, 14A, 14B, 14C	Cat. 2 Non Friable ACM	Between Steel Beams and CMU in Classrooms, Intermittent in Halls	3,500	LF
21	Interior Hard Yellow Caulk	13A, 13B, 13C, 13D, 13E,	Cat. 2 Non Friable ACM	Between Steel Beams and CMU 1/2 Wall Interior Side of Courtyard Near Main Office	320	LF
22	Black Mastic/Insulation	Visual	Suspect ACM, Not Sampled	Walk in Refrigerator and Freezer Coating	2	EA
23	Exterior Gray Window Caulk	19A, 19B, 19C, 19D, 19E, 19F, 19G	Cat. 2 Non Friable ACM	At Sides of Long Window Banks, Between Bank and Brick	300	LF
24	Exterior Window Glaze	25A, 25B, 25C, 25D, 25E, 25F, 25G	Cat. 2 Non Friable ACM	Interior of Exterior Window Banks. Each Window Defined by Aluminum Frame above Solid Steel Panel.	175	Each
25	Exterior Door Caulk	21, 22, 23	Cat. 2 Non Friable ACM	Exterior Doors	420	LF
26	Exterior Vapor Barrier	PACM	Suspect ACM, Not Sampled	Behind Brick Façade	6,000	SF
27	Remnant Roofing Tar	PACM	Suspect ACM, Not Sampled	Remnant	10,000	SF
28	Subsurface Transite	PACM	Suspect ACM, Not Sampled	Not Seen - Contingency	2,000	LF

ACM = Asbestos Containing Material. PACM = Presumed Asbestos Containing Material. LF = Linear Foot. SF = Square Foot

APPENDIX A

Asbestos Identification Laboratory

165 New Boston St., Ste 227
Woburn, MA 01801
781-932-9600

Web: www.asbestosidentificationlab.com
Email: mikemanning@asbestosidentificationlab.com

Batch: 27227

NVLAP®
Lab Code: 200919-0

November 03, 2017

Susan Cahalan
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Number:
Project Name: Fuller Middle School, Framingham MA

Date Sampled: 2017-10-27
Work Received: 2017-10-31
Work Analyzed: 2017-11-03

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

Dear Susan Cahalan,

Asbestos Identification Laboratory has completed the analysis of the samples from your office for the above referenced project .

The information and analysis contained in this report have been generated using the EPA /600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials. Materials or products that contain more than 1% of any kind or combination of asbestos are considered an asbestos containing building material as determined by the EPA. This Polarized Light Microscope (PLM) technique may be performed either by visual estimation or point counting. Point counting provides a determination of the area percentage of asbestos in a sample. If the asbestos is estimated to be less than 10% by visual estimation of friable material, the determination may be repeated using the point counting technique. The results of the point counting supersede visual PLM results. Results in this report only relate to the items tested. This report may not be used by the customer to claim product endorsement by NVLAP or any other U.S. Government Agency.

Laboratory results represent the analysis of samples as submitted by the customer. Information regarding sample location, description, area, volume, etc., was provided by the customer. Asbestos Identification Laboratory is not responsible for sample collection activities or analytical method limitations. Unless notified in writing to return samples, Asbestos Identification Laboratory discards customer samples after 30 days. Samples containing subsamples or layers will be analyzed separately when applicable. Reports are kept at Asbestos Identification Laboratory for three years. This report shall not be reproduced, except in full, without the written consent of Asbestos Identification Laboratory.

- NVLAP Lab Code: 200919-0
- Massachusetts Certification License: AA000208
- State of Connecticut, Department of Public Health Approved Environmental Laboratory Registration Number: PH-0142
- State of Maine, Department of Environmental Protection Asbestos Analytical Laboratory License Number: LB-0078(Bulk) LA-0087(Air)
- State of Rhode Island and Providence Plantations. Department of Health Certification: AAL-121
- State of Vermont, Department of Health Environmental Health License AL934461

Thank you Susan Cahalan for your business.

Michael Manning
Owner/Director

November 03, 2017

Susan Cahalan
CDW Consultants, Inc.
6 Huron Drive
Natick, MA 01760

Project Number:
Project Name: Fuller Middle School, Framingham MA

Date Sampled: 2017-10-27
Work Received: 2017-10-31
Work Analyzed: 2017-11-03

Analysis Method: BULK PLM ANALYSIS EPA/600/R-93/116

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
1A / 306480	Interior Window Glaze	4' X 4' Chix Wire Classrooms to Hall / C-Wing Area	multi	Non-Fibrous 98	Detected Chrysotile 2
1B / 306481	Interior Window Glaze	4' X 4' Chix Wire Classrooms to Hall / C-Wing Area			Not Analyzed
1C / 306482	Interior Window Glaze	4' X 4' Chix Wire Classrooms to Hall / C-Wing Area			Not Analyzed
2A / 306483	Interior Window Glaze	Sidelight Hall Door Assembly near C15	multi	Non-Fibrous 100	None Detected
2B / 306484	Interior Window Glaze	Sidelight Hall Door Assembly near C15	multi	Non-Fibrous 100	None Detected
3A / 306485	Interior Window Glaze	Hall Assembly near C15	white	Non-Fibrous 100	None Detected
3B / 306486	Interior Window Glaze	Hall Assembly near C15	white	Non-Fibrous 100	None Detected
4A / 306487	Interior Window Glaze	Chix Wire 4 X 4, 2 Classrooms / B-Wing Area	multi	Non-Fibrous 100	None Detected
4B / 306488	Interior Window Glaze	Chix Wire 4 X 4, 2 Classrooms / B-Wing Area	multi	Non-Fibrous 100	None Detected
4C / 306489	Interior Window Glaze	Chix Wire 4 X 4, 2 Classrooms / B-Wing Area	multi	Non-Fibrous 100	None Detected
5A / 306490	Interior Window Glaze	Hall Assembly near B-17	multi	Non-Fibrous 100	None Detected
5B / 306491	Interior Window Glaze	Hall Assembly near B-17	multi	Non-Fibrous 100	None Detected
6 / 306492	Interior Window Glaze	Hall Assembly near B-17	multi	Non-Fibrous 100	None Detected
7 / 306493	Black Sink Coating	B5 Science	black	Non-Fibrous 95	Detected Chrysotile 5

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
8A 306494	Interior Window Glaze	A-5 Adult ESL Wood Framed	multi	Non-Fibrous 98	Detected Chrysotile 2
8B 306495	Interior Window Glaze	A-5 Adult ESL Wood Framed			Not Analyzed
9A 306496	Interior Window Glaze	Chix Wire 4 X 4 Classrooms B5, B7, B10	multi	Non-Fibrous 98	Detected Chrysotile 2
9B 306497	Interior Window Glaze	Chix Wire 4 X 4 Classrooms B5, B7, B10			Not Analyzed
9C 306498	Interior Window Glaze	Chix Wire 4 X 4 Classrooms B5, B7, B10			Not Analyzed
10A 306499	Interior Window Glaze	Chix Wire Wood Framed near A-12, A-13	multi	Non-Fibrous 97	Detected Chrysotile 3
10B 306500	Interior Window Glaze	Chix Wire Wood Framed near A-12, A-13			Not Analyzed
10C 306501	Interior Window Glaze	Chix Wire Wood Framed near A-12, A-13			Not Analyzed
11A 306502	Interior Window Glaze	Fancy Wood Frame at Library	multi	Non-Fibrous 98	Detected Chrysotile 2
11B 306503	Interior Window Glaze	Fancy Wood Frame at Library			Not Analyzed
11C 306504	Interior Window Glaze	Fancy Wood Frame at Library			Not Analyzed
12A 306505	Interior Gray/White Caulk	Between Steel Beam and CMU Classrooms	multi	Non-Fibrous 90	Detected Chrysotile 10
12B 306506	Interior Gray/White Caulk	Between Steel Beam and CMU Classrooms			Not Analyzed
12C 306507	Interior Gray/White Caulk	Between Steel Beam and CMU Classrooms			Not Analyzed
12D 306508	Interior Gray/White Caulk	Between Steel Beam and CMU Classrooms			Not Analyzed
12E 306509	Interior Gray/White Caulk	Between Steel Beam and CMU Classrooms			Not Analyzed
13A 306510	Hard Yellow Interior Caulk	Between Steel Beams and CMU 1/2 Wall Int. Courtyard	multi	Non-Fibrous 95	Detected Chrysotile 5
13B 306511	Hard Yellow Interior Caulk	Between Steel Beams and CMU 1/2 Wall Int. Courtyard			Not Analyzed

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
13C 306512	Hard Yellow Interior Caulk	Between Steel Beams and CMU 1/2 Wall Int. Courtyard			Not Analyzed
13D 306513	Hard Yellow Interior Caulk	Between Steel Beams and CMU 1/2 Wall Int. Courtyard			Not Analyzed
13E 306514	Hard Yellow Interior Caulk	Between Steel Beams and CMU 1/2 Wall Int. Courtyard			Not Analyzed
14A 306515	Interior White Caulk	Between Steel Beam and Brick near Door 9	multi	Other 2 Non-Fibrous 95	**Detected** **Chrysotile 3**
14B 306516	Interior White Caulk	Between Steel Beam and Brick near Door 9			Not Analyzed
15A 306517	White 2' X 2' Ceiling	Ceiling	white	Non-Fibrous 100	None Detected
15B 306518	White 2' X 2' Ceiling	Ceiling	white	Non-Fibrous 100	None Detected
15C 306519	White 2' X 2' Ceiling	Ceiling	white	Non-Fibrous 100	None Detected
15D 306520	White 2' X 2' Ceiling	Ceiling	white	Non-Fibrous 100	None Detected
15E 306521	White 2' X 2' Ceiling	Ceiling	white	Non-Fibrous 100	None Detected
15F 306522	White 2' X 2' Ceiling	Ceiling	white	Non-Fibrous 100	None Detected
15G 306523	White 2' X 2' Ceiling	Ceiling	white	Non-Fibrous 100	None Detected
16A 306524	Yellow Layer	Under 2' X 2' White Ceiling Tile	yellow	Mineral Wool 98 Non-Fibrous 2	None Detected
16B 306525	Yellow Layer	Under 2' X 2' White Ceiling Tile	yellow	Mineral Wool 98 Non-Fibrous 2	None Detected
16C 306526	Yellow Layer	Under 2' X 2' White Ceiling Tile	yellow	Mineral Wool 98 Non-Fibrous 2	None Detected
16D 306527	Yellow Layer	Under 2' X 2' White Ceiling Tile	yellow	Mineral Wool 98 Non-Fibrous 2	None Detected
16E 306528	Yellow Layer	Under 2' X 2' White Ceiling Tile	yellow	Mineral Wool 98 Non-Fibrous 2	None Detected
16F 306529	Yellow Layer	Under 2' X 2' White Ceiling Tile	yellow	Mineral Wool 98 Non-Fibrous 2	None Detected

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
16G 306530	Yellow Layer	Under 2' X 2' White Ceiling Tile	yellow	Mineral Wool 98 Non-Fibrous 2	None Detected
17A 306531	White 2' X 4' Ceiling	Ceiling	white	Fiberglass 5 Non-Fibrous 95	None Detected
17B 306532	White 2' X 4' Ceiling	Ceiling	white	Fiberglass 5 Non-Fibrous 95	None Detected
17C 306533	White 2' X 4' Ceiling	Ceiling	white	Fiberglass 10 Non-Fibrous 90	None Detected
17D 306534	White 2' X 4' Ceiling	Ceiling	white	Fiberglass 5 Non-Fibrous 95	None Detected
17E 306535	White 2' X 4' Ceiling	Ceiling	white	Fiberglass 10 Non-Fibrous 90	None Detected
17F 306536	White 2' X 4' Ceiling	Ceiling	white	Fiberglass 10 Non-Fibrous 90	None Detected
17G 306537	White 2' X 4' Ceiling	Ceiling	white	Fiberglass 5 Non-Fibrous 95	None Detected
18A 306538	Yellow Layer	Under White 2' X 4' Ceiling	yellow	Fiberglass 95 Non-Fibrous 5	None Detected
18B 306539	Yellow Layer	Under White 2' X 4' Ceiling	yellow	Fiberglass 98 Non-Fibrous 2	None Detected
18C 306540	Yellow Layer	Under White 2' X 4' Ceiling	yellow	Fiberglass 98 Non-Fibrous 2	None Detected
18D 306541	Yellow Layer	Under White 2' X 4' Ceiling	yellow	Fiberglass 98 Non-Fibrous 2	None Detected
18E 306542	Yellow Layer	Under White 2' X 4' Ceiling	yellow	Fiberglass 95 Non-Fibrous 5	None Detected
18F 306543	Yellow Layer	Under White 2' X 4' Ceiling	yellow	Fiberglass 98 Non-Fibrous 2	None Detected
18G 306544	Yellow Layer	Under White 2' X 4' Ceiling	yellow	Fiberglass 95 Non-Fibrous 5	None Detected
19A 306545	Exterior Gray Window Caulk	Exterior Windows	gray	Other 5 Non-Fibrous 90	**Detected** **Chrysotile 5**
19B 306546	Exterior Gray Window Caulk	Exterior Windows			Not Analyzed
19C 306547	Exterior Gray Window Caulk	Exterior Windows			Not Analyzed

FieldID / LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
19D 306548	Exterior Gray Window Caulk	Exterior Windows			Not Analyzed
19E 306549	Exterior Gray Window Caulk	Exterior Windows			Not Analyzed
19F 306550	Exterior Gray Window Caulk	Exterior Windows			Not Analyzed
19G 306551	Exterior Gray Window Caulk	Exterior Windows			Not Analyzed
20A 306552	Exterior Thick Chunky Window Glaze	2 X 2 Window near Kitchen	white	Non-Fibrous 100	None Detected
20B 306553	Exterior Thick Chunky Window Glaze	2 X 2 Window near Kitchen	white	Non-Fibrous 100	None Detected
21 306554	Exterior Door Caulk	Door 16	gray	Non-Fibrous 98	**Detected** Chrysotile 2
22 306555	Exterior Door Caulk	Door 11	gray	Non-Fibrous 98	**Detected** Chrysotile 2
23 306556	Exterior Door Caulk	Door 9	gray	Non-Fibrous 98	**Detected** Chrysotile 2
24A 306557	Exterior Brown Fiberous Expansion Joint	Foundation	brown	Cellulose 70 Non-Fibrous 30	None Detected
24B 306558	Exterior Brown Fiberous Expansion Joint	Foundation	brown	Cellulose 70 Non-Fibrous 30	None Detected
25A 306559	Exterior Gray Window Glaze	Window Banks, All Sides	gray	Non-Fibrous 98	**Detected** Chrysotile 2
25B 306560	Exterior Gray Window Glaze	Window Banks, All Sides			Not Analyzed
25C 306561	Exterior Gray Window Glaze	Window Banks, All Sides			Not Analyzed
25D 306562	Exterior Gray Window Glaze	Window Banks, All Sides			Not Analyzed
25E 306563	Exterior Gray Window Glaze	Window Banks, All Sides			Not Analyzed
25F 306564	Exterior Gray Window Glaze	Window Banks, All Sides			Not Analyzed
25G 306565	Exterior Gray Window Glaze	Window Banks, All Sides			Not Analyzed

Batch: 27227

DUE Friday.

Client: CDW Consultants
Address: 16 Huron Drive, Natick, MA 01760
Project Site & #: Fuller Middle School, Framingham MA
Phone / email address:
Scahalan@cdwconsultants.com
Contact: Jessica Cahalan
Relinquish by/date: 10/30/17
Received by/date: 10/31/17
# of Samples Received: 80

CHAIN OF CUSTODY
EPA/600/R-93/116

Asbestos Identification Lab
165 New Boston St.
Suite 227
Woburn, MA 01801
(781)932-9600
www.asbestosidentificationlab.com

Date Sampled: 10/27/17

BATCH# 97227 Rev 12/15

Page 1 of 10

Turnaround Time: Less 3 Hrs; Same Day; Next Day; Two Day By 11/3/17

Sample Method: Bulk; Soil; Wipe; Point Count

Stop on 1st Positive? Yes/No

Notify Method: Mail/E-Mail/Verbal

Anayzed By: [signature]

Date: 11/3

Temp in Celcius = 24

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
80	1A	Material: Interior window glaze Location: 4'x4' Chix wire Classroom To Hall Cmng Area	C	WC	N	Coarse		Chrysotile	2	C	P	+	L	W	1550	1550							98
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															
81	1B	Material: " Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															
82	1C	Material: " Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															

DUA

DUA

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope					Asbestos Minerals	Optical Properties						RI		Non-Asbestos Percentage (%)						
			% of Asbestos	Color	Homogeneity	Texture	Friable		Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	II	⊥	Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
00	2A	Material: Interior window glaze Location: Sidelight Hall door assembly near C15	O	MCW	CW	CW		Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite															FW
00	2B	Material: " Location: 4	O	MCW	CW	CW		Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite															FW
00	3A	Material: Interior window glaze Location: Hall Assembly near C15	O	W	N	RW		Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite															FW
00	3B	Material: " Location: "	O	W	N	RW		Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite															FW
00	4A	Material: Interior window glaze Location: Chix Wing 4th & Classroom Bwing Area	O	MCW	CW	CW		Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite															FW

Fuller

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
00	4B	Material Location	C	M	CN	Gw	W	Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite															100
00	4C	Material Location	C	Mcw		Gw	W	Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite														1a	
00	5A	Material: Interior window glare Location: Hall Assembly near B-17	C	mcw		aw	W	Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite														100	
00	5B	Material Location	O	mcw		aw	W	Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite														100	
00	6	Material: Interior window glare Location: Hall Assembly near B-17	O	mcw		PW		Chrysotile Amosite Crocidolite Tremolite Anthophylite Actinolite														100	

Filler

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
6 of	7	Material: Black Sink Coating Location: BS Science		B				Chrysotile	5	W	P	+	L	W	1.55	1.550							
				F	W	S	W	Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															95
7 of	8A	Material: Interior window glare Location: A-5 Adult ESL Wood framed	O	M		R		Chrysotile	2	W	P	+	L	W	1.55	1.550							
				C	W	S	W	Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															98
8 of	8B	Material: 11 Location: 11						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															DNA
9 of	9A	Material: Interior window glare and wire Location: A+A Classrooms B5, B7, B10	O	M		R		Chrysotile	2	W	P	+	L	W	1.55	1.550							
				C	W	S	W	Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															98
10 of	9B	Material: 11 Location: 11						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															DNA

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
30950	QC	Material: " / Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															
30951	1OA	Material: Interior window glaze / Location: Chix Wire Wood framed near A-12 A-13	0	M	CW	Gw	W	Chrysotile	3	W	P	+	C	W	1.557	1.540							97
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															
30952	1OB	Material: " / Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															
30953	1OC	Material: " / Location: "						Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															
30954	11A	Material: Interior window glaze / Location: Early wood frame at library	3	M	CW	GW	W	Chrysotile	2	W	P	+	C	W	1.557	1.550							98
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															

DNA

DNA

DNA

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
50	11B	Material: 1 / Location: 1						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
10	11C	Material: 1 / Location: 1						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
60	DA	Material: Interior gray/white Caulk / Location: between steel beam and CMU Classrooms	M	C	M	R	N	Chrysotile	10	W	P	+	C	W	1.57	1.55								9C
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
70	12B	Material: 1 / Location: 1						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
80	12C	Material: 1 / Location: 1						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
00	12D	Material " Location "						Chrysotile																RHA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
00	12E	Material " Location "						Chrysotile																DHA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
0	13A	Material Hard yellow interior Caulk Location Between steel beams and CMU 1/2 wall Int. courtyard	0	Yel	N	Gum	N	Chrysotile	5	ω	P	+	L	N	1548	1550							95	
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
=	13B	Material " Location "						Chrysotile																DHA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
C	13C	Material " Location "						Chrysotile																DHA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
M	13D	Material: M Location: 4						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
J	13E	Material: 4 Location: 11						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
K	14A	Material: Interior White caulk Location: Between steel beam and brick near door 9	0	2	NR	NR	N	Chrysotile	3	W	P	+			1.550	1.580						M		
								Amosite																
								Crocidolite																
								Tremolite															295	
								Anthophylite																
								Actinolite																
L	14B	Material: 4 Location: 11						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
M	15A	Material: White 2'x2' ceiling Location: Ceiling		CW	N	GN	N	Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	⊢	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
10	15B	Material / Location	0	W	N	Gr	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															Gr
								Anthophylite															
								Actinolite															
10	15C	Material / Location	0	W	N	Gr	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															Gr
								Anthophylite															
								Actinolite															
10	15D	Material / Location	0	W	N	Gr	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															Gr
								Anthophylite															
								Actinolite															
10	15E	Material / Location	0	W	N	Gr	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															Gr
								Anthophylite															
								Actinolite															
10	15F	Material / Location	0	W	N	Gr	N	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															Gr
								Anthophylite															
								Actinolite															

fulks

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
50	15G	Material: 11 / Location: 11	0	WW	Low			Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															100
10	16A	Material: Yellow Layer / Location: Under 2'x2' white Ceiling Tile	C	C	W	Fri	Fri	Chrysotile															
								Amosite															
								Crocidolite											I				
								Tremolite															
								Anthophylite											98				
								Actinolite															2
50	16B	Material: 11 / Location: 11	C	C	W	Fri	Fri	Chrysotile															
								Amosite															
								Crocidolite											I				
								Tremolite															
								Anthophylite											98				
								Actinolite															2
90	16C	Material: 11 / Location: 11	6	C	W	Fri	Fri	Chrysotile															
								Amosite															
								Crocidolite											I				
								Tremolite															
								Anthophylite											98				
								Actinolite															2
50	16D	Material: 11 / Location: 11	C	C	W	Fri	Fri	Chrysotile															
								Amosite															
								Crocidolite											I				
								Tremolite															
								Anthophylite											98				
								Actinolite															2

fuller

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
10	16E	Material: 11 / Location: 11	0	y	y	fy	y	Chrysotile										I					
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite										98					2
10	16F	Material: 11 / Location: 11	0	y	y	fy	y	Chrysotile															
								Amosite															
								Crocidolite										I					
								Tremolite															
								Anthophylite															
								Actinolite										98					2
10	16G	Material: 11 / Location: 11	d	y	y	fy	y	Chrysotile															
								Amosite															
								Crocidolite										I					
								Tremolite															
								Anthophylite															
								Actinolite										98					2
11	17A	Material: White 2'x4' Ceiling / Location: Ceiling	o	w	m	am	m	Chrysotile															
								Amosite															
								Crocidolite									I						
								Tremolite															
								Anthophylite															
								Actinolite									5						95
11	17B	Material: 11 / Location: 11	o	w	m	am	m	Chrysotile															
								Amosite															
								Crocidolite									I						
								Tremolite															
								Anthophylite															
								Actinolite									5						95

Fuller

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
3M	17C	Material 4 / Location 11	0	w	n	aw	w	Chrysotile									I						
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite									10						90
3M	17D	Material 11 / Location 11	0	w	n	aw	w	Chrysotile															
								Amosite															
								Crocidolite									I						
								Tremolite															
								Anthophylite															
								Actinolite									S						95
3M	17E	Material 1, / Location 11	0	w	n	aw	w	Chrysotile															
								Amosite															
								Crocidolite									I						
								Tremolite															
								Anthophylite															
								Actinolite									10						90
3M	17F	Material 11 / Location 11	0	w	n	aw	w	Chrysotile															
								Amosite															
								Crocidolite									I						
								Tremolite															
								Anthophylite															
								Actinolite									10						90
3M	17G	Material 11 / Location 11	0	w	n	aw	w	Chrysotile															
								Amosite															
								Crocidolite									I						
								Tremolite															
								Anthophylite															
								Actinolite									S						95

Fuller

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
08 M	18A	Material: Yellow layer Location: under white 2x4' ceiling	0	Y	Y	F	Y	Chrysotile									I						
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite									95						5
08 M	18B	Material: 1 Location: 1	0	Y	Y	F	Y	Chrysotile									I						
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite									98						2
08 J	18C	Material: 1 Location: 1	0	Y	Y	F	Y	Chrysotile									I						
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite									98						2
08 J	18D	Material: 1 Location: 1	0	Y	Y	F	Y	Chrysotile									I						
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite									98						2
08 J	18E	Material: 1 Location: 1	0	Y	Y	F	Y	Chrysotile									I						
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite									95						5

fuller

Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
1	18F	Material " Location "	0	Y	Y	FY		Chrysotile									F							
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite									98						2	
1	18G	Material " Location "	0	Y	Y	FY		Chrysotile																
								Amosite																
								Crocidolite									I							
								Tremolite																
								Anthophylite																
								Actinolite									95						5	
1	19A	Material Exterior gray window caulk Location Exterior windows	0	6Y	N	ON	N	Chrysotile	5	W	P	+	+	W	1.546	1.551								
								Amosite																
								Crocidolite														TR		
								Tremolite																
								Anthophylite																
								Actinolite														5	90	
1	19B	Material " Location "						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
1	19C	Material " Location "						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
00 J	19D	Material / Location						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
00 J	19E	Material / Location						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
00 J	19F	Material / Location						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
00 J	19G	Material / Location						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
00 J	20A	Material: Exterior Thick Chunky window glaze / Location: 2x2 window near kitchen	0	unw	any			Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																100

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: ∥	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous
SS	20B	Material: 11 Location: 11	0	wh	n	any	y	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															100
IS	21	Material: Exterior Door Caulk Location: Door 16	0	GY	n	any	y	Chrysotile	2	w	p	+	2	N	1556	1551							
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															98
SS	22	Material: Exterior Door Caulk Location: Door 11	0	GY	n	any	y	Chrysotile	2	w	p	+	2	N	1556	1550							
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															98
SS	23	Material: Exterior Door Caulk Location: Door 9	0	GY	n	any	y	Chrysotile	2	w	p	+	2	N	1557	1549							
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															98
SS	24A	Material: Exterior Brown Fiberous Expansion Joint Location: foundation	0	BR	w	any	y	Chrysotile															
								Amosite															
								Crocidolite															
								Tremolite															
								Anthophylite															
								Actinolite															

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Temp in Celcius = ____

Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: II	RI: ⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
08	24B	Material: 11 Location: 1	0	Brn	Hom	Gran	Fri	Chrysotile																
								Amosite																
								Crocidolite											R					
								Tremolite											70				30	
								Anthophylite																
								Actinolite																
08	25A	Material: Exterior gray window glaze Location: window banks all sides	0	Gry	Hom	Gran	Fri	Chrysotile	2	W	P	+	L	N	1.556	1.550								
								Amosite																
								Crocidolite																
								Tremolite															98	
								Anthophylite																
								Actinolite																
09	25B	Material: 11 Location: 4						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
09	25C	Material: 11 Location: 4						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
09	25D	Material: 4 Location: 1						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																

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Lab ID# (Lab Use Only)	Field ID/ (Client Reference)	Temp in Celcius = ____ / Material / Location	Stereo Scope: % of Asbestos	Color	Homogeneity	Texture	Friable	Asbestos Minerals	Optical Properties: Asbestos %	Morphology	Extinction	Sign of Elongation	Birefringence	Pleochroism	RI: =	⊥	Non-Asbestos Percentage (%): Fiberglass	Mineral Wool	Cellulose	Hair	Synthetic	Other	Non-Fibrous	
9	25E	Material / Location						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
9	25F	Material / Location						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
9	25G	Material / Location						Chrysotile																DNA
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
		Material / Location						Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																
		Material / Location						Chrysotile																
								Amosite																
								Crocidolite																
								Tremolite																
								Anthophylite																
								Actinolite																

APPENDIX B

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order: 201711162
CustomerID: CDWC26
CustomerPO:
ProjectID:

Attn: **Susan Cahalan**
CDW Consultants
6 Huron Drive
Natick, MA 01760

Phone: (508) 875-2657
Fax:
Received: 10/31/17 10:30 AM
Collected: 10/27/2017

Project: **Fuller School**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
LP-1A	*201711162-0001*	10/27/2017	11/1/2017	0.69 % wt
	Site: Blue Over Yellow Paint on Steel Beams			
LP-1B	*201711162-0002*	10/27/2017	11/1/2017	0.15 % wt
	Site: Blue Over Yellow Paint on Steel Beams			
LP-1C	*201711162-0003*	10/27/2017	11/1/2017	0.14 % wt
	Site: Blue Over Yellow Paint on Steel Beams			
LP-1D	*201711162-0004*	10/27/2017	11/1/2017	0.079 % wt
	Site: Blue Over Yellow Paint on Steel Beams			
LP-1E	*201711162-0005*	10/27/2017	11/1/2017	0.27 % wt
	Site: Blue Over Yellow Paint on Steel Beams			
LP-2A	*201711162-0006*	10/27/2017	11/1/2017	0.056 % wt
	Site: Dark Blue Over Light Blue Paint on Steel Beams			
LP-2B	*201711162-0007*	10/27/2017	11/1/2017	0.11 % wt
	Site: Dark Blue Over Light Blue Paint on Steel Beams			
LP-2C	*201711162-0008*	10/27/2017	11/1/2017	0.062 % wt
	Site: Dark Blue Over Light Blue Paint on Steel Beams			
LP-2D	*201711162-0009*	10/27/2017	11/1/2017	0.49 % wt
	Site: Dark Blue Over Light Blue Paint on Steel Beams			
LP-2E	*201711162-0010*	10/27/2017	11/1/2017	0.51 % wt
	Site: Dark Blue Over Light Blue Paint on Steel Beams			
LP-3A	*201711162-0011*	10/27/2017	11/1/2017	<0.0080 % wt
	Site: Light Blue Paint on Steel Beams			
LP-3B	*201711162-0012*	10/27/2017	11/1/2017	0.036 % wt
	Site: Light Blue Paint on Steel Beams			
LP-3C	*201711162-0013*	10/27/2017	11/1/2017	0.019 % wt
	Site: Light Blue Paint on Steel Beams			
LP-3D	*201711162-0014*	10/27/2017	11/1/2017	<0.011 % wt
	Site: Light Blue Paint on Steel Beams			
LP-3E	*201711162-0015*	10/27/2017	11/1/2017	<0.0080 % wt
	Site: Light Blue Paint on Steel Beams			

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/03/2017 09:54:34

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201711162
CustomerID:	CDWC26
CustomerPO:	
ProjectID:	

Attn: **Susan Cahalan**
CDW Consultants
6 Huron Drive
Natick, MA 01760

Phone: (508) 875-2657
Fax:
Received: 10/31/17 10:30 AM
Collected: 10/27/2017

Project: **Fuller School**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
LP-4	*201711162-0016*	10/27/2017	11/1/2017	<0.0080 % wt
	Site: Gray / White Paint EXT CMU Near Kitchen			
LP-5	*201711162-0017*	10/27/2017	11/1/2017	<0.0080 % wt
	Site: Gray / White Paint on EXT. Window Panels			

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. 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. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/03/2017 09:54:34

OrderID: 201711162

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):* 201711162

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company : CDW Consultants	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 6 Huron Drive	
City: Natick **State/Province:** MA	**Zip/Postal Code:** 01760 **Country:** US
Report To (Name): susan cahalan	**Telephone #:** 5088752657
Email Address: scahalan@cdwconsultants.com	**Fax #:** 5088752657 **Purchase Order:**
Project Name/Number: Fuller School	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: MA	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☑ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☑ % by wt. ☐ mg/cm² ☐ ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	☑
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: **Signature of Sampler:**

	Sample #	Location	Volume/Area	Date/Time Sampled
1	LP-1A	Blue over yellow paint on steel beams	—	10/27/17
2	LP-1B	"	—	"

Client Sample #s **Total # of Samples:**

Relinquished (Client): Date: 10/30/17 Time:

Received (Lab): Date: 10/31/17 Time: 1030 fedex

Comments:
5088752657

Fuller School.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):*

201711162

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: 1-800-220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

	Sample #	Location	Volume/Area	Date/Time Sampled
3	LP-1C	" "	—	10/27/17
4	LP-1D	" "	—	
5	LP-1E	" "	—	
6	LP-2A	Dark blue over Light blue Paint on steel beams	—	
7	LP-2B	" "	—	
8	LP-2C	" "	—	
9	LP-2D	" "	—	
10	LP-2E	" "	—	
11	LP-3A	Light blue paint on steel beams	—	
12	LP-3B	" "	—	
13	LP-3C	" "	—	
14	LP-3D	" "	—	
15	LP-3E	" "	—	
16	LP-4	Gray/White Paint EXT near CMU Kitchen	—	
17	LP-5	White/gray paint on Ext. window panels	—	

Comments/Special Instructions:

5088752657