

AGENDA

**This meeting is physically closed to the public but the public
may view the meeting on livestream at:**

https://townhallstreams.com/towns/mansfield_ct

| | PAGE |
|---|------------------|
| 1. Call to Order | |
| 2. Approval of 9-10-20 Meeting Minutes | 2 - 3 |
| 3. Owners Project Manager Update | |
| • Recap of Hazmat Testing and Probable Abatement Costs | 4 - 123 |
| • Well Drilling RFP Responses | 124 - 137 |
| • Overview of Cost Estimate and Value Engineering Options | |
| 4. Architect's Update | |
| • Review of Comments from Various Boards and Committees | 138 - 156 |
| 5. Review Invoice Package | 157 - 167 |
| 6. Other items coming before the Committee | |
| 7. Adjournment | |

Next Meeting Date: Regular Meeting October 8, 2020

DRAFT MINUTES

Members Present: Randy Walikonis, Chris Kueffner, Madison Day, Steve Ferrigno, Mary deVecchis, Toni Moran, Kathy Ward, Richard Weyel, Chris McNaboe, Kelly Lyman,

Members Absent: John Carrington

Staff Present: Allen Corson, Director of Facilities Management; Charmaine Bradshaw-Hill, Director of Finance; Jay O'Keefe, Acting Director of Parks and Recreation

Guests: Scott Pellman (Project Manager, Colliers International), Ryszard Szczypek (TSKP Studio), Jeff Brown (TSKP Studio), Mehmet Sahin (TSKP Studio)

1. CALL TO ORDER

Meeting called to order at 4:32PM by Chairman Randy Walikonis.

2. APPROVAL OF MINUTES

Ms. Day **moved** to approve the minutes of the August 27, 2020 meeting.
Ms. deVecchis seconded the motion.

The motion **passed** unanimously with Ms. McNaboe abstaining.

3. OWNERS PROJECT MANAGER UPDATE

Mr. Pellman went over the updated Milestone schedule and the Phase 1 final approval letter from OSCGR. He informed the Committee that the RFP for Phase 1 well testing and drilling has been completed and published. The Committee discussed the project budget and contingency percentages, a proposed Administrators meeting, Security Review meeting and the upcoming Planning and Zoning Commission's Wetlands public hearing that is scheduled for September 21, 2020.

4. ARCHITECTS UPDATE

Mr. Szczypek spoke to the Committee about the current state of contractors increasing prices. He also reported that the Planning and Zoning application was received and the public hearing is scheduled for September 30, 2020. Mr. Szczypek also spoke to the Committee about the site walk-through with Town staff that went well.

Mr. Brown went over the updated site design, focusing on outdoor activity space. He then shared a 3 dimensional graphic presentation of the indoor spaces. The Committee discussed the use and care of the proposed outdoor learning / activity spaces and interior design features.

5. OTHER ITEMS COMING BEFORE THE COMMITTEE

The Committee discussed possibly scheduling a site visit in October.

6. ADJORNMENT

Mr. Kueffner **moved** to adjourn the meeting at 5:34PM. Mr. Weyel seconded the motion.

The motion **passed** unanimously.

Respectfully Submitted,

Tasha N. Smith
Executive Assistant, Town Manager's Office

NESHAP PRE-DEMOLITION HAZARDOUS BUILDING MATERIALS SURVEY REPORT

for

**Southeast Elementary School
134 Warrenville Road
Mansfield, Connecticut 06250**

Prepared For:

**Mr. Randy Walikonis
Chairperson
c/o**

**Tasha N. Smith
Executive Assistant to the Town Manager
Town of Mansfield
4 South Eagleville Road
Mansfield, Connecticut 06268**

Prepared By:

**Langan CT, Inc.
555 Long Wharf Drive
New Haven, CT 06511**



**Matthew A. Myers
Senior Project Manager**

**14 September 2020
140223601**

LANGAN

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| Appendix B | XRF Field Data Sheets |
| Appendix C | Building Diagrams |
| Appendix D | Langan Certifications and Accreditations |

ACRONYMS

| | |
|--------------------|---|
| US EPA | United States Environmental Protection Agency |
| ASHERA | Asbestos Hazard Emergency Response Act |
| OSHA | Occupational Safety and Health Administration |
| CFR | Code of Federal Regulation |
| NESHAP | National Emission Standards for Hazardous Air Pollutants |
| HUD | Housing and Urban Development |
| CT DPH | Connecticut Department of Public Health |
| CT DEEP | Connecticut Department of Energy and Environmental Protection |
| RCRA | Resource Conservation and Recovery Act |
| PLM | Polarized Light Microscopy |
| TEM | Transmission Electron Microscopy |
| ACM | Asbestos Containing Materials |
| LBP | Lead-Based Paint |
| PCB | Polychlorinated Biphenyls (PCB) |
| SF | Square Feet |
| LF | Linear Feet |
| mg/cm ² | Milligrams per square centimeter |
| XRF | X-ray Fluorescence |
| TCLP | Toxicity Characteristic Leaching Procedure |
| AAS | Atomic Absorption Spectrometry |

1.0 INTRODUCTION

Langan CT, Inc. (Langan) prepared this limited NESHAP (National Emissions Standards for Hazardous Air Pollutants) Pre-Demolition Hazardous Building Materials (HBM) Survey Report on behalf of the Town of Mansfield to identify accessible hazardous building materials that may exist at the Southeast Elementary School, 134 Warrenville Road, Mansfield, Connecticut. The school was constructed in 1957 with additions in 1965 and 1989/1991 and portable classrooms added in the 2000/2001. The school is an approximately 38,400 square-foot (SF) one story flat and pitched roof structure with classrooms, offices, gym/auditorium/cafeteria, kitchen, toilet rooms, storage rooms, boiler/mechanical rooms and tunnel/crawl space areas. The objectives of this survey/report is to identify the presence or absence of accessible asbestos-containing materials (ACM), lead-based paint, suspect assumed PCB (polychlorinated biphenyl) containing sealant compounds and universal waste so these materials can be properly quantified and assessed in support of scheduled demolition of the building.

Details pertaining to the building subject to this survey are summarized in the following table.

PROJECT INFORMATION

| | | | |
|----------------------------------|---|--------------------------|--|
| Client Name: | Mr. Randy Walikonis Chairperson c/o Tasha N. Smith Executive Assistant to the Town Manager Town of Mansfield 4 South Eagleville Road Mansfield, CT 06268 | Property Visit Date: | 28 and 29 July 2020 |
| Professional's Project #: | 140223601 | Construction Dates: | Main Building: 1957 Additions: 1965, 1989/1991 Portables: 2000/2001 |
| Consultant's Project Manager: | Matthew A. Myers | No. Buildings: | One and Garage Building |
| Phone No.: | 203-562-5571 | No. of Stories: | One with Tunnels/Crawl Spaces |
| Email: | mmyers@langan.com | Bldgs. Gross Footage: | 38,400 Square Feet |
| Property Address: | 134 Warrenville Road | | |
| Property Town, State: | Mansfield, Connecticut | Property Use: | Public Elementary School |

The following sections summarize Hazardous Building Materials findings for the building surveyed.

2.0 ASBESTOS-CONTAINING MATERIALS (ACM)

Terminology

Suspect Asbestos-Containing Materials

Asbestos was historically used in certain types of construction and building materials. Until a material is examined by using polarized light microscopy (PLM) or a similar technique, the building material is considered as a suspect asbestos-containing material. A few examples of these materials include wall and ceiling plasters, sheetrock/taping compound, flooring materials, ceiling panels, thermal system insulation, fireproofing insulation, adhesives, roofing materials, damp-proofing/waterproofing materials, caulking and glazing compounds, etc. Any suspect ACM and/or building material of unknown asbestos content should be assumed to be an asbestos containing material and handled and disposed of accordingly. Demolition, renovation, maintenance or daily activities should not disturb building materials that are found to contain asbestos, assumed to contain asbestos or that have not been tested for possible asbestos content.

Asbestos-Containing Material

A material with an asbestos concentration greater than 1% by weight is considered an ACM by the United States Environmental Protection Agency (US EPA). Thus, a material which contains asbestos in concentrations greater than 1% by weight is considered "positive" while a material that does not contain asbestos or asbestos is detected in concentrations less than 1% by weight is considered "negative". However, the Occupational Safety and Health Administration (OSHA) considers any amount of asbestos as regulated and some landfills/states consider building materials containing less than 1% asbestos as regulated asbestos-containing waste.

Regulatory Guidelines and Requirements

Federal

In accordance with the Clean Air Act (CAA), the U.S. Environmental Protection Agency (EPA) established National Emission Standards for hazardous Air Pollutants (NESHAP) to protect the public from exposure to airborne pollutants. Asbestos was one of the air pollutants, which was addressed under the NESHAP 40 CFR Part 61. The purpose of asbestos NESHAP regulations is

to protect the public health by minimizing the release of asbestos when facilities, which contain ACM, are being renovated or demolished. EPA is responsible for enforcing regulations related to asbestos during renovation and demolition activities, however, the CAA allows the EPA to delegate this authority to state and local agencies. Even after EPA delegates responsibility to a state or local agency, EPA retains the authority to oversee agency performance and to enforce NESHAP regulations as appropriate. OSHA considers any amount of asbestos to be regulated.

State

Asbestos in Connecticut is regulated by the State of Connecticut Department of Public Health (CT DPH), under Standards for Asbestos Abatement – Section 19a-333a-1 through 16 of Regulations of Connecticut State Agencies (RCSA) and Licensing and Training Requirements for Persons Engaged in Asbestos Abatement and Asbestos Consulting Services – Section 20-440-1 through 9 and Section 20-441 of RCSA.

Asbestos Survey

During this survey, suspect ACM were separated into three US EPA categories. These categories are: thermal system insulation (TSI), surfacing materials, and miscellaneous materials. TSI includes all materials used to prevent heat gain or loss or water condensation on mechanical systems. Typical examples of TSI are boiler, duct and tank insulation, pipe and pipe fitting insulation. Surfacing materials are sprayed, troweled or otherwise applied to an existing surface and common uses are fireproofing, decorative and acoustical plaster applications. Miscellaneous materials include all ACM not listed as TSI or surfacing and include: flooring materials, ceiling tiles, adhesives, transite cement board, sink undercoating, sheetrock/taping compounds, cove base materials, caulking and glazing compounds, damp-proofing/tars/mastics, roofing materials and other materials. State of Connecticut DPH licensed asbestos inspectors Matthew Myers (#000041), and Willie Thompson (#000673) performed the survey.

ACM Results Summary

Bulk sampling results are included as Tables 1 and 2 below. Analytical asbestos laboratory data can be found in Appendix A.

As required by the US EPA, samples were analyzed by individual layers (e.g. floor tile & the associated mastic were analyzed as two separate samples, rough and finish coat plasters, etc.). Bulk samples of the suspect asbestos-containing materials (ACM) were analyzed using the

Polarized Light Microscopy (PLM) analytical methodology in accordance with EPA Protocol 600/R-93/116 and possibly by PLM Point Count. Additional analysis of Non-friable Organically Bound (NOB) materials (e.g. flooring materials, roofing materials, mastics) may have been analyzed using NOB and TEM (transmission electron microscopy) analysis if authorized. The samples were analyzed by EMSL of Cinnaminson, New Jersey accredited by the National Voluntary Laboratory Program (NVLAP) and American Industrial Hygiene Association (AIHA).

Utilizing the US EPA and CT DPH protocols and criteria, the following materials **were determined (>1% Asbestos), assumed to be ACM, or <1% Asbestos:**

Table 1 – Summary of Asbestos-Containing Materials

| Material | Location | % Asbestos and Sample ID | Estimated Quantity of ACM |
|--|---|---|---|
| 1957 Building/1965 Addition | | | |
| Pipe Fitting Insulation (on fiberglass insulated pipes) and Black Pipe/Pipe Fitting Insulation – Thermal System Insulation | Visible above Ceiling Tiles at Main Toilet Rooms and Nurse’s Office (Assumed behind walls in other Toilet Rooms and Kitchen Areas and within Pipe Chases) | ACM 30% Chrysotile 0728102A 0728103A | 50 Linear Feet Visible Estimate 250 Linear Feet behind Walls and Chases |
| Thermal System Insulation Debris – Thermal System Insulation | Pipe Tunnels/Crawl Spaces in/on Soil and Possibly Loose Stone Floor | ACM 15% Chrysotile 0728161A | Extent Unknown – Additional Investigation Needed |
| Black Mastic under Flooring Materials (tile contaminated) – Miscellaneous Material | Unknown – Mixed Results – Positive Sample from 1957 Classroom Corridor | ACM 3% Chrysotile 0728131A | Unknown – Estimate 1,500 – 19,000 Square Feet Recommend Additional Investigation, Sampling and TEM Analysis to Confirm Negative and Positive Results |

| Material | Location | % Asbestos and Sample ID | Estimated Quantity of ACM |
|--|---|---|---|
| Black Sink Undercoating– Miscellaneous Material | Classrooms/Rooms 4 - 7 | ACM 5% Chrysotile 0728159A | 4 Sinks (double sinks) |
| Transite Cement Board – Miscellaneous Material | Tunnel Door Entrance | Assumed | 15 Square Feet |
| Interior Window Caulking Compounds (Perimeter Walls) – Miscellaneous Material | Throughout | ACM 3% - 5% Chrysotile 0728140A 0728176A | Included with Exterior Window Walls Below |
| Roof Deck Caulking Compound (Brown) – Miscellaneous Material | Found above Ceiling in Main Offices (may exist in other locations throughout) | ACM 4% Chrysotile 0728153A | 10 Linear Feet Visible Unknown if in other locations – Recommend Additional Investigation |
| Interior/Exterior Door Caulking Compounds – Miscellaneous Material | Kitchen, Custodial Office, Door Adjacent Boiler Room, Exterior Entry Doors Between Offices and Classroom and Adjacent Gymnasium/Cafeteria | ACM 3% - 5% Chrysotile 0728142A 0728143A 0728206A | 6 Doors Openings (multiple layers of sealants – newer and older) |
| Exterior Vent Caulking Compound – Miscellaneous Material | Exterior Adjacent Boiler Room | ACM 5% Chrysotile 0728202A | 45 Linear Feet |
| Interior/Exterior Window/Door/ Wall Panel Caulking Compounds – Miscellaneous Material | Exterior Kitchen | ACM 4% Chrysotile 0728204A | Window/Door/Wall Panel System, 50 Linear Feet |

| Material | Location | % Asbestos and Sample ID | Estimated Quantity of ACM |
|--|--|---|---|
| Exterior Window, Window Wall and Window Panel Caulking Compounds – Miscellaneous Materials | Throughout - (Classrooms, Kitchen, Speech, Offices, Gymnasium/Cafeteria) (Above Soffits as well) | ACM 4% - 6% Chrysotile 0728205A 0728216A 0728217A 0728221A | 5 Window Walls, 2 Separate Window Openings and Upper Gym/Café Windows (multiple layers of sealants – newer and older) |
| Transite Cement Wall Panels – Miscellaneous Material | Interior/Exterior Window Walls and Behind Radiators (Classrooms and Kitchen) | ACM 40% Chrysotile 0728212 | 5 Window Walls and Room 2, 1,200 Square Feet (multiple layers) |
| Exterior Wall Expansion Caulking Compounds – Miscellaneous Material | Exterior | ACM 4%-7% Chrysotile 0728207A 072808 | 80 Linear Feet (multiple layers of sealants – newer and older) |
| Tar on Copper Flashing – Miscellaneous Materials | Exterior Behind Brick at Foundation | ACM 6% Chrysotile 0728211A | Unknown – Additional Investigation Needed (Checked Multiple Locations and Found in One Location) |
| *Interior Thin Window Glazing and Door Window Glazing Compounds – Miscellaneous Materials | Room 2 Closet and Doors Throughout | <0.25% Chrysotile 0728141A,B | Not Applicable |
| *Exterior Thin Window Glazing Compound– Miscellaneous Material | Kitchen | <0.25 Chrysotile <1% Chrysotile 0728203A,B | Not Applicable |

*NOTE: Materials marked with an asterisk contain less than 1% asbestos are regulated by OSHA and must be removed with proper engineering controls at a minimum (using amended water, no dust, HEPA vacuums, etc.) and some landfills may not accept this waste as clean construction debris.

Utilizing the US EPA and CT DPH protocols and criteria, the following materials **were determined to be non-ACM:**

Table 2 – Summary of Non-Asbestos-Containing Materials

| Material | Location | Sample ID |
|---|-----------------------------------|--------------------------|
| 2000/2001 Portables Interior | | |
| Ceiling Tiles – Miscellaneous Materials | Throughout | 072801 - 072805 |
| Fiberglass Pipe Wrap Black Material– Thermal System Insulation | Throughout | 072807A-C |
| Sheetrock and Taping Compound – Miscellaneous Materials | Throughout | 072808A,B - 072811A,B |
| Red Fire Stop Caulking Compound – Miscellaneous Material | Throughout | 072812A,B |
| Carpet Adhesives – Miscellaneous Material | Throughout | 072813A,B |
| Sheet Flooring and Adhesive – Miscellaneous Materials | Toilet Rooms and Custodial Closet | 072814A,B - 072817A,B |
| Cove Base and Adhesives – Miscellaneous Materials | Throughout | 072818A,B 072819A,B |
| Door Window Glazing Compounds (White and Black) – Miscellaneous Materials | Throughout | 072820A,B 072822A,B |
| Window Glazing Compounds – Miscellaneous Material | Throughout | 072821A,B |
| 2000/2001 Portables Exterior | | |
| Window/Door/Wall Caulking Compounds – Miscellaneous Material | Throughout | 0728201A,B |
| Roof Field, Perimeter and Penetration Materials (Gray Paper) – Miscellaneous Material | Throughout | 0728227A-C |
| 1989/1991 Additions Interior | | |
| Ceiling Tiles – Miscellaneous Materials | Throughout | 072823 - 072826 |

| Material | Location | Sample ID |
|---|--------------------------------------|--------------------------|
| Sheetrock and Taping Compound – Miscellaneous Materials | Throughout | 072827A,B 072828A,B |
| Red and Yellow Fire Stop Caulking Compounds – Miscellaneous Materials | Throughout | 072829A,B 072830A,B |
| Radiator Fiberglass Panel Adhesive – Miscellaneous Material | Throughout | 072831A,B |
| Bulletin Board Adhesive (Tan) – Miscellaneous Material | Throughout | 072832A,B |
| Kiln – Miscellaneous Material | Room 23 Closet | 072833A,B |
| Sink Undercoating (Gray) – Miscellaneous Material | Throughout | 072834A,B |
| Block Wall and Mortar – Miscellaneous Materials | Throughout | 072835A,B 072836A,B |
| Carpet Adhesive – Miscellaneous Material | Throughout | 072837A,B |
| Sheet Flooring and Adhesives – Miscellaneous Materials | Throughout Classroom Toilet Rooms | 072838A,B - 072840A,B |
| Ceramic Floor Mud Bed and Grout – Miscellaneous Materials | Throughout Classroom Toilet Rooms | 072841A,B 072842A,B |
| Blue Concrete Floor – Miscellaneous Material | Security Entry Adjacent Kitchen | 072843A,B |
| Gray Floor Leveler – Miscellaneous Materials | Throughout | 072844A,B |
| 12"x12" Floor Tiles, Black and Yellow Mastics – Miscellaneous Materials | Throughout | 072845 - 072854 |
| Cove Base and Adhesives – Miscellaneous Material | Throughout | 072855A,B - 072857A,B |

| Material | Location | Sample ID |
|---|----------------------------|---|
| Door Window Glazing Compounds (Black), Door Caulking Compounds (White and Gray), Window Caulking Compounds (White) and Window Glazing Compounds (Black) – Miscellaneous Materials | Throughout | 072858A,B 072859A,B 072860A,B 072861A,B 072862A,B |
| 1989/1991 Additions Exterior | | |
| “Newer” Window Caulking Compounds (White) – Miscellaneous Material - | Throughout | 0728192A,B |
| Door Caulking Compound (Gray) – Miscellaneous Material | Throughout | 0728193A,B |
| Wall Expansion Caulking Compounds (Gray) – Miscellaneous Material | Throughout | 0728194A,B |
| Brick and Brick Mortar– Miscellaneous Materials | Throughout | 0728195A,B 0728196A,B |
| Gym Soffit Caulking Compounds (White) – Miscellaneous Material | Gym Soffit | 0728197A,B |
| Wall Panels in Filled In Windows (White and Gray Layers) – Miscellaneous Materials | Windows | 0728198A,B 0728199A,B |
| Gray Wall Material – Miscellaneous Material | New Security Door Entrance | 0728200A,B |
| Roof Fiberboard, Paper backing, Gray and White Gypsum/Soft Concrete Layers – Miscellaneous Materials | Throughout | 0728228A,B - 0728231A,B |
| 1957 Building Interior | | |
| 1’x1’ Ceiling Tiles and Glue Daubs – Miscellaneous Materials | Throughout | 072863A,B 072864A,B |
| Ceiling Tiles – Miscellaneous Materials | Throughout | 072865A,B - 072872 |
| Tectum Ceiling – Miscellaneous Material | Throughout | 072873A,B |

| Material | Location | Sample ID |
|---|---------------------|----------------------------|
| Sheetrock and Taping Compound– Miscellaneous Materials | Throughout | 072874 - 072881 |
| Folding Wall Material and Wall Paper/Adhesive – Miscellaneous Materials | Gymnasium/Cafeteria | 072882A,B 072883A,B |
| Orange, Red and Yellow Fire Stop Caulking Compounds – Miscellaneous Materials | Throughout | 072884A, B - 072886A,B |
| Black Slate Blackboard and Dark Brown Adhesive – Miscellaneous Materials | Throughout | 072887A,B 072888A,B |
| Bulletin Board Corkboard – Miscellaneous Material | Throughout | 072889A,B |
| Green Bookshelf Sheet Material and Adhesive – Miscellaneous Materials | Throughout | 072890A,B 02891A,B |
| Radiator Panels – Miscellaneous Material | Throughout | 072892A,B |
| Sink Undercoating (Gray) – Miscellaneous Material | Throughout | 072893 |
| Block Wall and Mortar and Brick Grout – Miscellaneous Materials | Throughout | 072894A, B - 072896A,B |
| Burnham Boiler Rib Material (Black) – Miscellaneous Material | Boiler Room | 072897A,B |
| HB Smith Boiler Sealant (Red) and Rib Roping – Miscellaneous Materials | Boiler Room | 072898A,B 072899A,B |
| Boiler Exhaust Duct Insulation (White and Gray) – Thermal System Insulation | Boiler Room | 0728100A-C 0728101A-C |
| Black Pipe Insulation, Black Material on Pipe Insulation Foil Wrap, End Cap Pipe Insulation, Old Pipe Cloth Wrap – Thermal System Insulation | Throughout | 0728104A-C - 0728107A-C |

| Material | Location | Sample ID |
|--|--|--|
| White Material on Stone Floor – Miscellaneous Material | Tunnels | 0728108 0728109 |
| Ceramic Wall and Floor Tile Floor Mud Beds, Grouts, Adhesives, and Paper – Miscellaneous Materials | Toilet Rooms, Custodial Closets and Kitchen | 0728110A,B - 0728117A,B |
| Carpet Adhesives (Some mixed with Black Material) – Miscellaneous Materials | Throughout | 0728118A-C 0728119 |
| Thick Rolled Flooring, Yellow Mastic and Black Material under Rolled Flooring – Miscellaneous Materials | Gymnasium/Cafeteria | 0728120A,B 0728121A,B 0728128A,B |
| Sheet Flooring – Miscellaneous Material | Stage | 0728122A,B |
| 12"x12" Floor Tiles, Brown Mastics and Some Black Mastics – Miscellaneous Materials | Throughout | 0728123A,B - 0728127C,D 0728129A,B 0728130A,B |
| Cove Base and Adhesives – Miscellaneous Materials | Throughout | 0728132 - 0728135A-C |
| "Newer" Door Caulking Compounds (Tan and White) – Miscellaneous Materials | Throughout | 0728136A,B 0728137A,B |
| Window Glazing Compounds (Black) and Door Window Glazing Compounds (Black) – Miscellaneous Materials | Throughout | 0728138A,B 0728139A,B |
| 1957 Building Exterior | | |
| Foundation Damp-proofing – Miscellaneous Material | Foundation | 0728209A,B |
| Roof Fiberboard, Paper Backing Under Foam, White Gypsum/Soft Concrete Layer – Miscellaneous Materials | Throughout | 0728235A,B - 0728237A-C |

| Material | Location | Sample ID |
|---|-------------------------|----------------------------|
| Caulking Compounds on Copper and Metal Trims, Chimney and Windows – Miscellaneous Material | Throughout Roof Level | 0728238A,B - 0728242 |
| 1965 Addition Interior | | |
| Ceiling Tiles – Miscellaneous Materials | Throughout | 0728144 - 0728147 |
| 1'x1' Wall Tiles and Glue Daubs – Miscellaneous Materials | Throughout | 0728148A,B 0728149A,B |
| Tectum Ceiling – Miscellaneous Material | Throughout | 0728150A,B |
| Sheetrock and Taping Compound – Miscellaneous Materials | Throughout | 0728151A,B 0728152A,B |
| Blackboard – Miscellaneous Material | Throughout | 0728154A,B |
| Bulletin Boards/Green Boards, Wallboard Above Blackboard and Adhesives (Dark Brown) – Miscellaneous Materials | Throughout | 0728155A,B – 0728157A,B |
| Gray Sink Undercoating– Miscellaneous Material | Throughout | 0728158A,B |
| Black Material on Pipe Insulation Foil Wrap –Thermal System Insulation | Throughout | 0728160A-C |
| Ceramic Wall and Floor Tile Floor Mud Beds, Grouts and Adhesives – Miscellaneous Materials | Throughout Toilet Rooms | 0728162A,B - 0728168A,B |
| Yellow and Gray Carpet Adhesives/Materials – Miscellaneous Materials | Throughout | 0728169A,B 0728170A,B |
| 12"x12" Floor Tiles, Gray Material and Black Mastics – Miscellaneous Materials | Throughout | 0728171A-D - 0728173A-C |
| Cove Base and Adhesives – Miscellaneous Materials | Throughout | 0728174A,B 0728175A,B |

| Material | Location | Sample ID |
|---|--|----------------------------|
| Black Door Window and Window Glazing Compounds – Miscellaneous Materials | Throughout | 0728177A,B |
| “Newer” White Window Sill Compounds – Miscellaneous Material | Throughout | 0728178A,B |
| “Newer” White Interior Door Caulking Compounds – Miscellaneous Material | Staff Lounge | 0728179A,B |
| 1965 Addition Exterior | | |
| Foundation Damp-proofing – Miscellaneous Material | Foundation | 0728210A,B |
| Black Net Material – Miscellaneous Material | Behind Brick Wall at Foundation (may be 1957 building) | 0728213A,B |
| Brick and Brick Mortar– Miscellaneous Materials | Throughout | 0728214A,B 0728215A,B |
| “Newer” Window Caulking and Glazing Compounds (White and Black) – Miscellaneous Materials | Throughout 1957/1965 | 0728218A,B - 0728220A,B |
| “Newer” Wall Expansion Caulking Compounds – Miscellaneous Material | 1957/1965 Front Entry | 0728222A,B |
| “Newer” Door Caulking Compounds (Gray) – Miscellaneous Material | 1957/1965 Front Entry | 0728223A,B |
| Roof Fiberboard, Paper Backing and White Gypsum/Soft Concrete Layer – Miscellaneous Materials | Throughout | 0728232A,B - 0728234A,B |
| Garage | | |
| Sheetrock and Taping Compound – Miscellaneous Materials | Interior Ceiling | 0728180A,B 0728181A,B |
| Interior Wall Caulking Compounds – Miscellaneous Materials | Interior | 0728182A,B |

| Material | Location | Sample ID |
|--|---|---------------------------|
| Interior Door Caulking Compounds – Miscellaneous Material | Interior | 0728183A,B |
| Vent Caulking Compounds – Miscellaneous Material | Exterior | 0728184A,B |
| Wall Expansion Caulking Compounds – Miscellaneous Material | Exterior | 0728185A,B |
| Black Damp-proofing and Paper Materials – Miscellaneous Material | Exterior at Foundation, Above Vent and Behind Brick | 0728186A,B- 0728189A,B |
| Brick and Brick Mortar– Miscellaneous Material | Exterior | 0728190A,B 0728191A,B |
| Roof Shingles and Water/Ice Dam Layer – Miscellaneous Material | Roof | 0728224A,B- 0728226A,B |

DISCLAIMERS: Reasonable care was taken to identify all suspect accessible asbestos containing materials through visual inspection and limited destructive sampling techniques. However, it is not feasible to uncover all materials that may exist. Additional materials may need to be sampled after the building has been vacated and/or during the demolition process. Some locations/materials were not sampled during this survey due to location and damage required to inspect certain materials/areas.

Interior Hidden Materials Between Original Building and Building Additions – Inaccessible suspect asbestos containing materials may be buried between abutting walls of different aged buildings/additions (transite cement board, window/door/expansion wall sealants and systems, etc.).

Interior Hidden Materials - Interior walls/ceilings/floors/other building materials were opened up/accessed in limited locations to investigate for suspect asbestos containing materials. Additional suspect asbestos containing materials may be discovered during demolition activities despite the inspectors investigating representative areas during the survey. Additional asbestos containing materials may be found:

- Interior Boiler Materials (boilers appear to be “newer” and should not have asbestos containing materials inside them but will need to be sampled prior to demolition);
- Behind water fountains (tar/damp-proofing and pipe insulation);

- Inside HVAC ducts, mechanical systems and incinerators (damp-proofing, tars, adhesives, sealants, fire brick and thermal system insulation);
- Flooring materials under raised flooring areas, ramps and stairs, sheetrock walls, non-moveable objects (shelving, lockers, millwork, cabinetry, etc.);
- Adhesives associated with millwork, cabinetry, shelving, etc.;
- Behind custodian slop sinks (damp-proofing/tar behind);
- Behind ceilings, wall and chases throughout (duct insulation, pipe insulation, vibration isolation cloth, roofing debris, etc.);
- Vermiculite behind/inside walls, ceilings and chases;
- Behind ceramic flooring and walls throughout (investigated in several areas for black tars/damp-proofing, adhesives and other suspect materials – materials sampled to date do not contain asbestos) (staff lounge toilets have multiple layers of ceramic walls – need to investigate further (will cause significant damage to walls));
- Hidden materials below, behind and within walk in freezers/coolers (black tars/damp-proofing);
- Gymnasium/cafeteria table tops attached to walls and materials behind them (adhesives, transite cement board, older floor tiles, etc.) and kitchen countertops and adhesives (not sampled due to damage that would occur);
- Transite cement board behind wood panels and other paneling, ceilings, radiators, etc.;
- Duct adhesives, seam and flange sealants (checked several locations);
- Fire door/door insulation;
- Wall adhesives throughout (behind chalkboards/white boards/bulletin boards/mirrors/corkboard (room 2) and wall materials (wood/wall board/sheetrock, etc) (several areas were checked and some wall adhesives, where possible, were sampled and found not to contain asbestos – additional different adhesives may exist that will require sampling);
- Materials buried under stage flooring, behind stage crawl space sheetrock walls and ceilings (paper material under wood, transite cement board, pipe and pipe fitting insulation, etc.);
- Paper backing inside lights and electrical insulation and
- Materials that are located in locked inaccessible areas or rooms (sink undercoating throughout portable classrooms, classroom closets (several were locked (17, 22, etc.)).

Tunnels and Crawl Spaces – These areas were reported to have been abated. Langan cut open the fiberglass pipe and pipe fitting insulation in several locations and did not find suspect asbestos containing insulation and/or residue from incomplete abatement. There is the

possibility that suspect asbestos containing pipe and pipe fitting insulation exists in locations behind fiberglass not investigated. Asbestos containing floor debris was found in sporadic locations throughout the tunnels/crawl spaces. Langan recommends performing an additional survey to attempt to delineate the extent of ground contamination (soil and loose stone floors) and to attempt to measure the tunnels/crawl spaces and create a "rough" drawing showing the extent of the tunnels/crawl spaces.

Foundations/Soil and Buried Piping and Mechanical Conduits – Foundation damp-proofing/tars/mastics may exist under the soil on the building foundations in locations not investigated. Several locations along the foundation walls were investigated (one to two feet down – below ground level) and the limited damp-proofing materials found did not contain asbestos. Additional damp-proofing materials that have not been sampled may exist in other locations, on the inside of foundation walls and underneath floor slabs throughout. It is not known if other materials are buried in the soil adjacent to the building (ex. Transite piping, etc.). Asbestos containing damp-proofing/tars/mastics may also exist on piping and mechanical conduits in the subsurface.

Exterior Hidden Materials – The inspectors removed limited locations of exterior wall brick (several openings at 1957 building, 1965 addition and 1989/1991 additions) and one area was found to have asbestos containing damp-proofing on copper flashing adjacent the foundation. Additional asbestos-containing materials (damp-proofing, etc.) may exist behind the brick walls in other locations that have not been opened up/sampled to date. The exterior brick walls may have also have suspect asbestos containing adhesives behind the styrofoam insulation board inside of them (1989/1991 additions - checked a couple locations – did not locate adhesive). The portable classroom may have suspect asbestos containing paper and/or adhesives behind interior and exterior walls. Additional hidden suspect asbestos containing "older" roofing materials may exist that were not found by the limited roof cuts/sampling that has occurred to date. Several areas behind visible soffits were investigated for transite cement board soffit materials. None were found in the areas checked but they may exist in areas not investigated (asbestos containing transite cement board and sealant compounds are located on the walls behind some of the soffits). Some windows have been "filled" in with a drive it/wall material and suspect asbestos containing materials may exist behind them (adhesives, etc.).

Out Buildings - The adjacent garage building was included as part of this survey. Several additional out buildings were noted on the site. These are located around the sports fields. They

will require a NESHAP pre-demolition or renovation survey if demolition or renovation activities are planned for them. Also, the greenhouse may have suspect adhesives behind the wood walls.

3.0 LEAD-BASED PAINT (LBP) XRF SCREENING

A limited lead-based paint XRF (X-ray Fluorescence) screening survey was performed throughout the building by Willie Thompson a CT DPH licensed lead inspector (CT license #002146). LBP was identified exceeding the HUD/EPA action level of equal to or greater than 1.0 mg/cm² in the materials listed below. Toxicity Characteristic Leaching Procedure (TCLP) lead waste characterization samples should be taken to classify the building materials for proper waste disposal. See Appendix B for XRF field data sheets.

Table 3 – XRF Lead-Based Paint Screening Results (>1 mg/cm²)

| Sample Number | Component | Substrate | Color | Test Location | Total Lead mg/cm ² | Results |
|---------------|--------------|-----------|-------|--|-------------------------------|----------|
| 69 | Window Trim | Wood | Blue | 1957 Building - Exit B3 - Custodial Exit | 4.1 | Positive |
| 71 | Corner Board | Wood | White | 1957 Building - Exit B3 - Custodial Exit | 4.8 | Positive |
| 87 | Soffit Trim | Wood | White | 1965 Addition - Exterior | 2.3 | Positive |

The glazed block walls and baseboards throughout the 1957 and 1965 Buildings had lead equal to or greater than 1.0 mg/cm². This is not lead-based paint by definition but should be included in the TCLP sampling.

Contractors should be aware that OSHA has not established a level of lead in a material below which 29 CFR 1926.62 does not apply. Contractor shall comply with exposure assessment criteria, interim worker protection and other requirements of the regulation as necessary to protect workers and occupants/residents.

4.0 PCB SEALANT SOURCE MATERIALS

In recent years, the United States Environmental Protection Agency (US EPA) has learned that building sealants (e.g. caulking, glazing, expansion joint and other sealant materials) containing potentially harmful PCBs were used in many buildings in the 1950s through the 1980s. PCBs were added to building sealants for durability, resistance to degradation, and as a

softener/plasticizer for application.

Connecticut Department of Energy and Environmental Protection (CT DEEP) has a PCB regulatory limit of 1 ppm and US EPA has a regulatory limit of 50 ppm for source materials. The following "older" PCB sealant source materials are assumed to have greater than 50 ppm PCB:

Table 4 – Summary of Assumed PCB Source Materials

| Material | Location |
|---|--|
| "Older" Interior and Exterior Window/Window Wall/Panel Caulking Compounds | Throughout 1957 Building and 1965 Addition (buried behind "newer" sealants in some locations) |
| "Older" Interior and Exterior Door Caulking Compounds | Throughout 1957 Building and 1965 Addition (buried behind "newer" sealants in some locations) |
| "Older" Interior and Exterior Window/Door/Wall Panel Caulking and Glazing Compounds | Kitchen |
| "Older" Exterior Wall Expansion Caulking Compounds | Throughout 1957 Building and 1965 Addition (buried behind "newer" sealants in some locations) |
| Interior Thin Window Glazing and Door Window Glazing Compounds | Throughout 1957 Building and 1965 Addition and Inside Room 2 |
| Black Window Glazing Compounds and Door Window Glazing Compounds | Main Offices, Nurses Office, Gymnasium/Cafeteria |
| Exterior Vent Caulking Compounds | Throughout 1957 Building |

Sealant compounds throughout the 2000/2001 portable classrooms and 1989/1991 additions were not included in the PCB visual survey due to the age of construction (not typically suspect).

PCBs may also be found in paints, damp-proofing materials, roofing materials, adhesives, glues, floor mastics, etc. Sampling of these materials and sealant compounds was not authorized at the time of the HBM survey.

5.0 UNIVERSAL WASTE ASSESSMENT

Completion of detailed Universal Waste Assessment (identifying the number and location of Universal Waste items) was not conducted as part of this survey. Universal wastes noted during the visual survey include suspect PCB/DEHP (di (2-ethylhexyl) phthalate) ballasts/capacitors associated with light fixtures, air conditioner and refrigerator coolants, mercury-containing florescent and other mixed used high intensity light bulbs, smoke detectors and other alarms/sensors containing suspect radioactive materials, batteries and emergency lighting, exit and other signage, mercury-containing thermostats, switches, gauges, electronics, paints, wiring, cleaning and other chemicals.

The gymnasium/cafeteria rolled flooring may contain mercury depending upon the installation date and manufacturer.

All universal waste that is present in the building will need to be properly removed, recycled, and/or disposed of at a landfill permitted to accept such waste. The removal, handling, recycling, and disposal must be performed in accordance with applicable Federal, State, and local regulations.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Langan provides the following conclusions and recommendations, based on the findings of this limited NESHAP Pre-Demolition Hazardous Building Materials Survey:

Both friable and non-friable ACM were identified/assumed in the subject building/addition(s). Prior to demolition, the identified ACM must be properly removed and disposed in accordance with applicable Federal, State and Local regulations by a State of Connecticut DPH licensed asbestos abatement contractor. A State of Connecticut licensed Asbestos Designer should create specifications and an Asbestos Project Monitor should perform project oversight and air testing in accordance with the Federal and State regulations. These are all requirements of the CT DPH Standards. Additional sampling/destructive sampling/visual investigation is required for materials that have not been sampled to date.

Langan recommends an additional survey at this time that includes:

- Additional bulk sampling of flooring materials throughout the 1957 building and 1965 addition – PLM and TEM analysis to confirm negative and positive results and determine extent/amount that will require abatement;
- Tunnels/crawl spaces - attempt to determine the extent of ground contamination (soil and loose stone floors) and to measure the tunnels/crawl spaces and create a “rough” drawing showing the extent of the tunnels/crawl spaces;
- An asbestos containing roof deck caulking compound was found above the main office ceiling. This material appeared to be “newer” and was not noted in other locations however it may exist elsewhere and the roof decks throughout (room by room) should be checked to determine the extent of this material; and
- Tar on copper flashing behind exterior brick at foundation. Several exterior brick walls were opened up and one location was found to have an asbestos containing tar on copper flashing at the foundation. Additional investigation should occur to attempt to determine extent/amount that will require disposal.

Contractors completing demolition or renovation activities should be aware that OSHA has not established a level of lead in a material below which 29 CFR 1926.62 does not apply. All contractors working on the project are responsible for having adequate training (RRP or greater amount) and performing their own OSHA compliance requirements. Contractor shall comply with exposure assessment criteria, interim worker protection and other requirements of the regulation as necessary to protect workers and occupants/residents. All contractors must comply with all applicable State and Federal regulations, including but not limited to the lead OSHA regulations.

TCLP lead waste characterization sampling should be performed to determine the waste disposal method for painted components to be removed/disposed (normal construction debris versus regulated hazardous waste). Separate TCLP samples should be obtained for each different age of construction (original building, building additions and portable classrooms). Metal materials painted in lead-based paint may be recycled. Langan recommends completion of a lead-based paint awareness specification for the project.

“Older” caulking, glazing and sealant compounds to be disturbed by demolition activities are

assumed to contain greater than 50 ppm PCB. These materials and other suspect PCB containing materials (especially painted surfaces in 1957 building and 1965 addition) should be tested at a later date or assumed to contain PCBs (and possibly adjacent building materials and ground surfaces). PCB abatement specification(s) will be required and if sampling is performed, a PCB performance based plan (does not require EPA approval) or self-implementing plan (requires EPA approval – two to six months is typical for this process) may be required depending upon the sample results. The owner/owners representative and Langan will need to meet to discuss the testing parameters (what materials is Langan authorized to sample and when will sampling occur) or what assumptions will be in place to write specifications without sampling (types of source materials to be assumed, extent of adjacent building materials, etc.).

All universal waste that is present in the building that will need to be removed/replaced will need to be properly removed, recycled, and/or disposed of at a landfill permitted to accept such waste. The removal, handling, recycling and disposal must be performed in accordance with applicable Federal, State, and local regulations. Mercury sampling of the gymnasium/cafeteria flooring may be warranted depending upon the year of installation. Langan recommends completion of a universal waste recycling/disposal specification for the project.

7.0 LIMITATIONS

The conclusions and recommendations presented in this report are professional opinions based solely upon Langan's visual observations, laboratory test data, and current regulatory requirements. These conclusions and recommendations are intended exclusively for the purpose stated herein, at the site indicated, and for the project indicated.

It is important to recognize that even the most comprehensive scope of services may fail to detect all hazmat that may be associated with the property. Therefore, Langan cannot act as insurers and cannot "certify" that all hazardous building materials associated with the property have been identified, and no expressed or implied representation or warranty is included or intended in our report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

Any suspect material that is not listed in this report must be assumed as ACM, PCBs, lead-based paint, etc. until confirmed otherwise via laboratory testing. \\langan.com\data\NH\data6\140223601\Project Data_Discipline\Hazardous Building Materials\SoutheastSchool Pre-Demolition HBM Report.docx

Appendix A

Asbestos Analytical Laboratory Results and Chains-of-Custody



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Attn: Matthew Myers
Langan Engineering & Environ. Services
Long Wharf Maritime Center
555 Long Wharf Drive
New Haven, CT 06511
Phone: (203) 562-5771
Fax: (203) 789-6142
Collected: 7/28/2020
Received: 7/31/2020
Analyzed: 8/13/2020
Proj: 140223601 - Mansfield Southeast School

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 072801 **Lab Sample ID:** 042018402-0001

Sample Description: 2001 Portables/2 x 2 Ceiling Tiles - New Worm

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 072802 **Lab Sample ID:** 042018402-0002

Sample Description: 2001 Portables - Corridor Room 13/2 x 2 Ceiling Tiles - Worm

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 072803 **Lab Sample ID:** 042018402-0003

Sample Description: 2001 Portables - Corridor Room 13/2 x 2 Ceiling Tiles - Pinhole

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 072804 **Lab Sample ID:** 042018402-0004

Sample Description: 2001 Portables - Corridor Room 12/2 x 2 Ceiling Tiles - Fissure

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 072805 **Lab Sample ID:** 042018402-0005

Sample Description: 2001 Portables - Corridor Room 11/2 x 2 Ceiling Tiles - Texture

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|------------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 072807A **Lab Sample ID:** 042018402-0006

Sample Description: 2001 Portable/Fiberglass Pipe Wrap Black material

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-----------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan/Black | 80.0% | 20.0% | None Detected | |

Client Sample ID: 072807B **Lab Sample ID:** 042018402-0007

Sample Description: 2001 Portable/Fiberglass Pipe Wrap Black material

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-----------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan/Black | 80.0% | 20.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 072807C **Lab Sample ID:** 042018402-0008

Sample Description: 2001 Portable/Fiberglass Pipe Wrap Black material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan/Black | 80.0% | 20.0% | None Detected | |

Client Sample ID: 072808A **Lab Sample ID:** 042018402-0009

Sample Description: 2001 Portable - Ceiling/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 072808B **Lab Sample ID:** 042018402-0010

Sample Description: 2001 Portable - Ceiling/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 072809A **Lab Sample ID:** 042018402-0011

Sample Description: 2001 Portable - Ceiling/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 072809B **Lab Sample ID:** 042018402-0012

Sample Description: 2001 Portable - Ceiling/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728010A **Lab Sample ID:** 042018402-0013

Sample Description: 2001 Portable - Wall/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728010B **Lab Sample ID:** 042018402-0014

Sample Description: 2001 Portable - Wall/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728011A **Lab Sample ID:** 042018402-0015

Sample Description: 2001 Portable - Wall/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728011B **Lab Sample ID:** 042018402-0016

Sample Description: 2001 Portable - Wall/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728012A **Lab Sample ID:** 042018402-0017

Sample Description: 2001 Portable - Wall/Red Firestop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Red | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728012B **Lab Sample ID:** 042018402-0018

Sample Description: 2001 Portable - Wall/Red Firestop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728013A **Lab Sample ID:** 042018402-0019

Sample Description: 2001 Portable - Wall/Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728013B **Lab Sample ID:** 042018402-0020

Sample Description: 2001 Portable - Wall/Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728014A **Lab Sample ID:** 042018402-0021

Sample Description: 2001 Portable - Custodial Closet/Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 30.0% | 70.0% | None Detected | |

Client Sample ID: 0728014B **Lab Sample ID:** 042018402-0022

Sample Description: 2001 Portable - Custodial Closet/Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 30.0% | 70.0% | None Detected | |

Client Sample ID: 0728015A **Lab Sample ID:** 042018402-0023

Sample Description: 2001 Portable - Custodial Closet/Sheet Flooring Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728015B **Lab Sample ID:** 042018402-0024

Sample Description: 2001 Portable - Custodial Closet/Sheet Flooring Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728016A **Lab Sample ID:** 042018402-0025

Sample Description: 2001 Portable - Toilet Rooms/Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728016B **Lab Sample ID:** 042018402-0026

Sample Description: 2001 Portable - Toilet Rooms/Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728017A **Lab Sample ID:** 042018402-0027

Sample Description: 2001 Portable - Toilet Rooms/Sheet Flooring Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728017B **Lab Sample ID:** 042018402-0028

Sample Description: 2001 Portable - Toilet Rooms/Sheet Flooring Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Clear | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728018A **Lab Sample ID:** 042018402-0029

Sample Description: 2001 Portable/Cove Base

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Blue | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728018B **Lab Sample ID:** 042018402-0030

Sample Description: 2001 Portable/Cove Base

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Blue | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728019A **Lab Sample ID:** 042018402-0031

Sample Description: 2001 Portable/Cove Base Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728019B **Lab Sample ID:** 042018402-0032

Sample Description: 2001 Portable/Cove Base Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728020A **Lab Sample ID:** 042018402-0033

Sample Description: 2001 Portable/Door Window Glazing - Black Sticky

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728020B **Lab Sample ID:** 042018402-0034

Sample Description: 2001 Portable/Door Window Glazing - Black Sticky

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728021A **Lab Sample ID:** 042018402-0035

Sample Description: 2001 Portable/Interior Window Glazing - White Exterior Window

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728021B **Lab Sample ID:** 042018402-0036

Sample Description: 2001 Portable/Interior Window Glazing - White Exterior Window

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728022A **Lab Sample ID:** 042018402-0037

Sample Description: 2001 Portable/Door Window Glazing - Black - Entrance

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728022B **Lab Sample ID:** 042018402-0038

Sample Description: 2001 Portable/Door Window Glazing - Black - Entrance

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728023 **Lab Sample ID:** 042018402-0039

Sample Description: 1989 Additions - Eagles Landing/2 x 4 Ceiling Tile - Texture

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728024 **Lab Sample ID:** 042018402-0040

Sample Description: 1989 Additions - Room 21/2 x 4 Ceiling Tile - Texture

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728025 **Lab Sample ID:** 042018402-0041

Sample Description: 1989 Additions - Room 21/2 x 4 Ceiling Tile - Worm

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728026 **Lab Sample ID:** 042018402-0042

Sample Description: 1989 Additions - Corridor/2 x 2 Ceiling Tile - Texture

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|------------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728027A **Lab Sample ID:** 042018402-0043

Sample Description: 1989 Additions/Sheetrock

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728027B **Lab Sample ID:** 042018402-0044

Sample Description: 1989 Additions/Sheetrock

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728028A **Lab Sample ID:** 042018402-0045

Sample Description: 1989 Additions/Sheetrock Taping Compound

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728028B **Lab Sample ID:** 042018402-0046

Sample Description: 1989 Additions/Sheetrock Taping Compound

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728029A **Lab Sample ID:** 042018402-0047

Sample Description: 1989 Additions/Red Fire Stop Caulk

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Red | 10.0% | 90.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728029B **Lab Sample ID:** 042018402-0048

Sample Description: 1989 Additions/Red Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728030A **Lab Sample ID:** 042018402-0049

Sample Description: 1989 Additions/Yellow Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728030B **Lab Sample ID:** 042018402-0050

Sample Description: 1989 Additions/Yellow Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728031A **Lab Sample ID:** 042018402-0051

Sample Description: 1989 Additions - Room 21/Glue on Radiator Fiberglass Panel

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728031B **Lab Sample ID:** 042018402-0052

Sample Description: 1989 Additions - Room 9/Glue on Radiator Fiberglass Panel

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728032A **Lab Sample ID:** 042018402-0053

Sample Description: 1989 Additions - Room 20 and 21/Bulletin Board Glue - Tan

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728032B **Lab Sample ID:** 042018402-0054

Sample Description: 1989 Additions - Room 20 and 21/Bulletin Board Glue - Tan

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728033A **Lab Sample ID:** 042018402-0055

Sample Description: 1989 Additions - Room 23 Closet/Kiln

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728033B **Lab Sample ID:** 042018402-0056

Sample Description: 1989 Additions - Room 23 Closet/Kiln

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728034A **Lab Sample ID:** 042018402-0057

Sample Description: 1989 Additions - Room 20/Gray Sink Undercoating

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 30.0% | 70.0% | None Detected | |

Client Sample ID: 0728034B **Lab Sample ID:** 042018402-0058

Sample Description: 1989 Additions - Room 22/Gray Sink Undercoating

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 30.0% | 70.0% | None Detected | |

Client Sample ID: 0728035A **Lab Sample ID:** 042018402-0059

Sample Description: 1989 Additions/CMU Block

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728035B **Lab Sample ID:** 042018402-0060

Sample Description: 1989 Additions/CMU Block

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728036A **Lab Sample ID:** 042018402-0061

Sample Description: 1989 Additions/CMU Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728036B **Lab Sample ID:** 042018402-0062

Sample Description: 1989 Additions/CMU Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728037A **Lab Sample ID:** 042018402-0063

Sample Description: 1989 Additions - Corridor/Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728037B **Lab Sample ID:** 042018402-0064

Sample Description: 1989 Additions - Corridor/Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728038A **Lab Sample ID:** 042018402-0065

Sample Description: 1989 Additions - Room 20/Toilet Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728038B **Lab Sample ID:** 042018402-0066

Sample Description: 1989 Additions - Room 9/Toilet Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728039A **Lab Sample ID:** 042018402-0067

Sample Description: 1989 Additions - Room 20/Sheet Flooring Adhesive Yellow

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728039B **Lab Sample ID:** 042018402-0068

Sample Description: 1989 Additions - Room 20/Sheet Flooring Adhesive Yellow

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728040A **Lab Sample ID:** 042018402-0069

Sample Description: 1989 Additions - Room 20/Sheet Flooring Adhesive Gray and Yellow

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728040B **Lab Sample ID:** 042018402-0070

Sample Description: 1989 Additions - Room 9/Sheet Flooring Adhesive Gray and Yellow

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728041A **Lab Sample ID:** 042018402-0071

Sample Description: 1989 Additions - Room 21/Toilet Room Ceramic Floor Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728041B **Lab Sample ID:** 042018402-0072

Sample Description: 1989 Additions - Room 21/Toilet Room Ceramic Floor Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728042A **Lab Sample ID:** 042018402-0073

Sample Description: 1989 Additions - Room 21/Toilet Room Ceramic Floor Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728042B **Lab Sample ID:** 042018402-0074

Sample Description: 1989 Additions - Room 21/Toilet Room Ceramic Floor Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 5.0% | 95.0% | None Detected | |

Client Sample ID: 0728043A **Lab Sample ID:** 042018402-0075

Sample Description: 1989 Additions - Security Entry adjacent Kitchen/Blue Floor Concrete

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Blue | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728043B **Lab Sample ID:** 042018402-0076

Sample Description: 1989 Additions - Security Entry adjacent Kitchen/Blue Floor Concrete

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Blue | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728044A **Lab Sample ID:** 042018402-0077

Sample Description: 1989 Additions - Corridor 22 and 24/Gray Floor Leveler

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 30.0% | 70.0% | None Detected | |

Client Sample ID: 0728044B **Lab Sample ID:** 042018402-0078

Sample Description: 1989 Additions - Corridor 22 and 24/Gray Floor Leveler

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728045 **Lab Sample ID:** 042018402-0079

Sample Description: 1989 Additions - Room 21/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728046 **Lab Sample ID:** 042018402-0080

Sample Description: 1989 Additions - Room 21/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728047 **Lab Sample ID:** 042018402-0081

Sample Description: 1989 Additions - Room 9/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728048 **Lab Sample ID:** 042018402-0082

Sample Description: 1989 Additions - Room 9/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Black | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728049 **Lab Sample ID:** 042018402-0083

Sample Description: 1989 Additions - Room 20/Brown Floor Tile Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728050 **Lab Sample ID:** 042018402-0084

Sample Description: 1989 Additions - Corridor 22 and 24/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728051 **Lab Sample ID:** 042018402-0085

Sample Description: 1989 Additions - Corridor 22 and 24/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728052 **Lab Sample ID:** 042018402-0086

Sample Description: 1989 Additions - Corridor Kitchen and Gym/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Beige | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728053 **Lab Sample ID:** 042018402-0087

Sample Description: 1989 Additions - Corridor Kitchen and Gym/12 x 12 Floor Tile Yellow Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |



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Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728054 **Lab Sample ID:** 042018402-0088

Sample Description: 1989 Additions - Corridor Kitchen and Gym/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Black | 0.0% | 100.0% | None Detected | Result includes a small amount of inseparable attached leveler. |

Client Sample ID: 0728055A **Lab Sample ID:** 042018402-0089

Sample Description: 1989 Additions - Room 9/Cove Base

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Pink | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728055B **Lab Sample ID:** 042018402-0090

Sample Description: 1989 Additions - Eagles Landing/Cove Base

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728056A **Lab Sample ID:** 042018402-0091

Sample Description: 1989 Additions - Room 9/Cove Base White Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728056B **Lab Sample ID:** 042018402-0092

Sample Description: 1989 Additions - Eagles Landing/Cove Base White Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728057A **Lab Sample ID:** 042018402-0093

Sample Description: 1989 Additions - Room 9/Cove Base Yellow Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728057B **Lab Sample ID:** 042018402-0094

Sample Description: 1989 Additions - Eagles Landing/Cove Base Yellow Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728058A **Lab Sample ID:** 042018402-0095

Sample Description: 1989 Additions - Room 20 and 21/Interior Door Black Window Glaze

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728058B **Lab Sample ID:** 042018402-0096

Sample Description: 1989 Additions - Room 20 and 21/Interior Door Black Window Glaze

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728059A **Lab Sample ID:** 042018402-0097

Sample Description: 1989 Additions - Room 21/Interior Door Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728059B **Lab Sample ID:** 042018402-0098

Sample Description: 1989 Additions - Eagles Landing/Interior Door Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728060A **Lab Sample ID:** 042018402-0099

Sample Description: 1989 Additions - Corridor 20/Interior Door Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728060B **Lab Sample ID:** 042018402-0100

Sample Description: 1989 Additions - Corridor 23 and 24/Interior Door Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728061A **Lab Sample ID:** 042018402-0101

Sample Description: 1989 Additions - Exterior/Interior Window Caulk Side White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 15.0% | 85.0% | None Detected | |

Client Sample ID: 0728061B **Lab Sample ID:** 042018402-0102

Sample Description: 1989 Additions/Interior Window Caulk Side White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728062A **Lab Sample ID:** 042018402-0103

Sample Description: 1989 Additions/Interior Window Glazing Side Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |



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Customer ID: LANG78
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728062B **Lab Sample ID:** 042018402-0104

Sample Description: 1989 Additions/Interior Window Glazing Side Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728063A **Lab Sample ID:** 042018402-0105

Sample Description: 1957 Building - Room 18/1 x 1 Ceiling Tile Class Closets

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 90.0% | 10.0% | None Detected | |

Client Sample ID: 0728063B **Lab Sample ID:** 042018402-0106

Sample Description: 1957 Building - Room 14/1 x 1 Ceiling Tile Class Closets

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 95.0% | 5.0% | None Detected | |

Client Sample ID: 0728064A **Lab Sample ID:** 042018402-0107

Sample Description: 1957 Building - Room 18/1 x 1 Ceiling Tile Glue Dark Brown Closets

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728064B **Lab Sample ID:** 042018402-0108

Sample Description: 1957 Building - Room 14/1 x 1 Ceiling Tile Glue Dark Brown Closets

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728065A **Lab Sample ID:** 042018402-0109

Sample Description: 1957 Building - Kitchen/2 x 4 Ceiling Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728065B **Lab Sample ID:** 042018402-0110

Sample Description: 1957 Building - Kitchen/2 x 4 Ceiling Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728066A **Lab Sample ID:** 042018402-0111

Sample Description: 1957 Building - Room 18/2 x 4 Ceiling Tile - Wormhole

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |



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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728066B **Lab Sample ID:** 042018402-0112

Sample Description: 1957 Building - Room 14/2 x 4 Ceiling Tile - Wormhole

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728067 **Lab Sample ID:** 042018402-0113

Sample Description: 1957 Building - Nurse/2 x 4 Ceiling Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728068 **Lab Sample ID:** 042018402-0114

Sample Description: 1957 Building - Nurse/2 x 4 Ceiling Tile - Texture

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728069 **Lab Sample ID:** 042018402-0115

Sample Description: 1957 Building - Room 18/2 x 4 Ceiling Tile - Texture

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728070 **Lab Sample ID:** 042018402-0116

Sample Description: 1957 Building - Room 2/2 x 4 Ceiling Tile - Texture

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728071 **Lab Sample ID:** 042018402-0117

Sample Description: 1957 Building - Corridor 15/2 x 4 Ceiling Tile - Texture

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728072 **Lab Sample ID:** 042018402-0118

Sample Description: 1957 Building - Café/2 x 4 Ceiling Tile - Texture

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 0728073A **Lab Sample ID:** 042018402-0119

Sample Description: 1957 Building/Tectum Ceiling Deck

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Tan | 20.0% | 80.0% | None Detected | |



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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728073E **Lab Sample ID:** 042018402-0120

Sample Description: 1957 Building/Tectum Ceiling Deck

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 30.0% | 70.0% | None Detected | |

Client Sample ID: 0728074 **Lab Sample ID:** 042018402-0121

Sample Description: 1957 Building - Room 18/Sheetrock above Window

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728075 **Lab Sample ID:** 042018402-0122

Sample Description: 1957 Building - Room 14 and 16/Sheetrock Door Fill-in

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 25.0% | 75.0% | None Detected | |

Client Sample ID: 0728076 **Lab Sample ID:** 042018402-0123

Sample Description: 1957 Building - Room 18/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 25.0% | 75.0% | None Detected | |

Client Sample ID: 0728077 **Lab Sample ID:** 042018402-0124

Sample Description: 1957 Building - Nurse/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown/White | 25.0% | 75.0% | None Detected | |

Client Sample ID: 0728078 **Lab Sample ID:** 042018402-0125

Sample Description: 1957 Building - Under Stage/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728079 **Lab Sample ID:** 042018402-0126

Sample Description: 1957 Building - Room 18/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728080 **Lab Sample ID:** 042018402-0127

Sample Description: 1957 Building - Nurse/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728081 **Lab Sample ID:** 042018402-0128

Sample Description: 1957 Building - Under Stage/Sheetrock Taping Compound

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728082A **Lab Sample ID:** 042018402-0129

Sample Description: 1957 Building - Gym and Café/Folding Wall Brown Material

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 90.0% | 10.0% | None Detected | |

Client Sample ID: 0728082B **Lab Sample ID:** 042018402-0130

Sample Description: 1957 Building - Gym and Café/Folding Wall Brown Material

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 90.0% | 10.0% | None Detected | |

Client Sample ID: 0728083A-Glue **Lab Sample ID:** 042018402-0131

Sample Description: 1957 Building - Gym and Café/Folding Wall Glue

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Clear | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728083A-Wallpaper **Lab Sample ID:** 042018402-0131A

Sample Description: 1957 Building - Gym and Café/Folding Wall Wallpaper

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Beige | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728083B-Glue **Lab Sample ID:** 042018402-0132

Sample Description: 1957 Building - Gym and Café/Folding Wall Glue

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Clear | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728083B-Wallpaper **Lab Sample ID:** 042018402-0132A

Sample Description: 1957 Building - Gym and Café/Folding Wall Wallpaper

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728084A **Lab Sample ID:** 042018402-0133

Sample Description: 1957 Building/Orange Fire Stop Caulk

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------------|--------------|-------------|---------------|---|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Orange | 0.0% | 100.0% | None Detected | Result includes a small amount of inseparable attached material |



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Project ID:

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Client Sample ID: 0728084B **Lab Sample ID:** 042018402-0134

Sample Description: 1957 Building/Orange Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728085A **Lab Sample ID:** 042018402-0135

Sample Description: 1957 Building/Red Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White/Red/Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728085B **Lab Sample ID:** 042018402-0136

Sample Description: 1957 Building/Red Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728086A **Lab Sample ID:** 042018402-0137

Sample Description: 1957 Building/Yellow Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black/Yellow | 0.0% | 100.0% | None Detected | Result includes a small amount of inseparable attached material |

Client Sample ID: 0728086B **Lab Sample ID:** 042018402-0138

Sample Description: 1957 Building/Yellow Fire Stop Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728087A **Lab Sample ID:** 042018402-0139

Sample Description: 1957 Building - Room 18/Skate Blackboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728087B **Lab Sample ID:** 042018402-0140

Sample Description: 1957 Building/Skate Blackboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728088A **Lab Sample ID:** 042018402-0141

Sample Description: 1957 Building/Skate Blackboard Dark Glue

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 0.0% | 100.0% | None Detected | |



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Project ID:

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Client Sample ID: 0728088B **Lab Sample ID:** 042018402-0142

Sample Description: 1957 Building/Skate Blackboard Dark Glue

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728089A **Lab Sample ID:** 042018402-0143

Sample Description: 1957 Building - Room 18/Bull Board Corkboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Beige | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728089B **Lab Sample ID:** 042018402-0144

Sample Description: 1957 Building - Corridor Closet B/Bull Board Corkboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/Beige | 25.0% | 75.0% | None Detected | |

Client Sample ID: 0728090A **Lab Sample ID:** 042018402-0145

Sample Description: 1957 Building - Room 18/Green Bookshelf Sheet Material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Green | 5.0% | 95.0% | None Detected | |

Client Sample ID: 0728090B **Lab Sample ID:** 042018402-0146

Sample Description: 1957 Building - Room 18/Green Bookshelf Sheet Material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Green | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728091A **Lab Sample ID:** 042018402-0147

Sample Description: 1957 Building - Room 18/Green Bookshelf Sheet Material Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728091B **Lab Sample ID:** 042018402-0148

Sample Description: 1957 Building - Room 18/Green Bookshelf Sheet Material Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728092A **Lab Sample ID:** 042018402-0149

Sample Description: 1957 Building - Room 19/Transite Radiator Panel

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 50.0% | 50.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728092B **Lab Sample ID:** 042018402-0150

Sample Description: 1957 Building - Room 19/Transite Radiator Panel

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 45.0% | 55.0% | None Detected | |

Client Sample ID: 0728093 **Lab Sample ID:** 042018402-0151

Sample Description: 1957 Building - Room 15/Gray Sink Undercoating

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 20.0% | 80.0% | None Detected | |

Client Sample ID: 0728094A **Lab Sample ID:** 042018402-0152

Sample Description: 1957 Building/CMU Block

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------------|--------------|-------------|---------------|--|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Tan/Black | 0.0% | 100.0% | None Detected | Inseparable paint / coating layer included in analysis |

Client Sample ID: 0728094B **Lab Sample ID:** 042018402-0153

Sample Description: 1957 Building/CMU Block

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|--|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Tan | 0.0% | 100.0% | None Detected | Inseparable paint / coating layer included in analysis |

Client Sample ID: 0728095A **Lab Sample ID:** 042018402-0154

Sample Description: 1957 Building/CMU Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|--|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Tan | 0.0% | 100.0% | None Detected | Inseparable paint / coating layer included in analysis |

Client Sample ID: 0728095B **Lab Sample ID:** 042018402-0155

Sample Description: 1957 Building/CMU Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|--|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Tan | 0.0% | 100.0% | None Detected | Inseparable paint / coating layer included in analysis |

Client Sample ID: 0728096A **Lab Sample ID:** 042018402-0156

Sample Description: 1957 Building/Brick Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728096B **Lab Sample ID:** 042018402-0157

Sample Description: 1957 Building/Brick Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 0728097A **Lab Sample ID:** 042018402-0158

Sample Description: 1957 Building - Boiler Room/Burnham Boiler Black Rib Material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728097B **Lab Sample ID:** 042018402-0159

Sample Description: 1957 Building - Boiler Room/Burnham Boiler Black Rib Material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728098A **Lab Sample ID:** 042018402-0160

Sample Description: 1957 Building - Boiler Room/HB Smith Red Boiler Sealant

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 0728098B **Lab Sample ID:** 042018402-0161

Sample Description: 1957 Building - Boiler Room/HB Smith Red Boiler Sealant

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 10.0% | 90.0% | None Detected | |

Client Sample ID: 0728099A **Lab Sample ID:** 042018402-0162

Sample Description: 1957 Building - Boiler Room/HB Smith White Rope Rib Roping

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 95.0% | 5.0% | None Detected | |

Client Sample ID: 0728099B **Lab Sample ID:** 042018402-0163

Sample Description: 1957 Building - Boiler Room/HB Smith White Rope Rib Roping

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280100A **Lab Sample ID:** 042018402-0164

Sample Description: 1957 Building - Boiler Room/Boiler Exhaust Duct White Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 70.0% | 30.0% | None Detected | |

Client Sample ID: 07280100B **Lab Sample ID:** 042018402-0165

Sample Description: 1957 Building - Boiler Room/Boiler Exhaust Duct White Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 70.0% | 30.0% | None Detected | |



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Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280100C **Lab Sample ID:** 042018402-0166

Sample Description: 1957 Building - Boiler Room/Boiler Exhaust Duct White Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 75.0% | 25.0% | None Detected | |

Client Sample ID: 07280101A **Lab Sample ID:** 042018402-0167

Sample Description: 1957 Building - Boiler Room/Boiler Exhaust Duct Gray Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 40.0% | 60.0% | None Detected | |

Client Sample ID: 07280101B **Lab Sample ID:** 042018402-0168

Sample Description: 1957 Building - Boiler Room/Boiler Exhaust Duct Gray Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 40.0% | 60.0% | None Detected | |

Client Sample ID: 07280101C **Lab Sample ID:** 042018402-0169

Sample Description: 1957 Building - Boiler Room/Boiler Exhaust Duct Gray Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 35.0% | 65.0% | None Detected | |

Client Sample ID: 07280102A **Lab Sample ID:** 042018402-0170

Sample Description: 1957 Building - Boys and Girls Toilet/Pipe Fitting Insulation Fiberglass Pipe

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 70.0% | 30% Chrysotile | |

Client Sample ID: 07280102B **Lab Sample ID:** 042018402-0171

Sample Description: 1957 Building - Boys and Girls Toilet/Pipe Fitting Insulation Fiberglass Pipe

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280102C **Lab Sample ID:** 042018402-0172

Sample Description: 1957 Building - Boys and Girls Toilet/Pipe Fitting Insulation Fiberglass Pipe

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280103A **Lab Sample ID:** 042018402-0173

Sample Description: 1957 Building - Nurse/Pipe Fitting Insulation on Black Pipe Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 70.0% | 30% Chrysotile | |



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EMSL Order ID: 042018402
Customer ID: LANG78
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280103B **Lab Sample ID:** 042018402-0174

Sample Description: 1957 Building - Nurse/Pipe Fitting Insulation on Black Pipe Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280103C **Lab Sample ID:** 042018402-0175

Sample Description: 1957 Building - Nurse/Pipe Fitting Insulation on Black Pipe Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280104A **Lab Sample ID:** 042018402-0176

Sample Description: 1957 Building - Nurse/Pipe Insulation - Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black/Silver | 30.0% | 70.0% | None Detected | |

Client Sample ID: 07280104B **Lab Sample ID:** 042018402-0177

Sample Description: 1957 Building - Nurse/Pipe Insulation - Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black/Silver | 30.0% | 70.0% | None Detected | |

Client Sample ID: 07280104C **Lab Sample ID:** 042018402-0178

Sample Description: 1957 Building - Nurse/Pipe Insulation - Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/Black/Silver | 40.0% | 60.0% | None Detected | |

Client Sample ID: 07280105A **Lab Sample ID:** 042018402-0179

Sample Description: 1957 Building - Pipe Tunnel/Pipe Insulation Black Material on Foil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 30.0% | 70.0% | None Detected | |

Client Sample ID: 07280105B **Lab Sample ID:** 042018402-0180

Sample Description: 1957 Building - Pipe Tunnel/Pipe Insulation Black Material on Foil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|--|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White/Black | 30.0% | 70.0% | None Detected | Inseparable paint / coating layer included in analysis |

Client Sample ID: 07280105C **Lab Sample ID:** 042018402-0181

Sample Description: 1957 Building - Pipe Tunnel/Pipe Insulation Black Material on Foil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black/Silver | 40.0% | 60.0% | None Detected | |



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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280106A **Lab Sample ID:** 042018402-0182

Sample Description: 1957 Building - Boiler Room Tunnel/End Pipe Cap Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 11.0% | 89.0% | None Detected | |

Client Sample ID: 07280106B **Lab Sample ID:** 042018402-0183

Sample Description: 1957 Building - Boiler Room Tunnel/End Pipe Cap Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 11.0% | 89.0% | None Detected | |

Client Sample ID: 07280106C **Lab Sample ID:** 042018402-0184

Sample Description: 1957 Building - Boiler Room Tunnel/End Pipe Cap Insulation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 11.0% | 89.0% | None Detected | |

Client Sample ID: 07280107A **Lab Sample ID:** 042018402-0185

Sample Description: 1957 Building - Boiler Room Tunnel/Old Pipe Cloth Wrap

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan/White | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280107B **Lab Sample ID:** 042018402-0186

Sample Description: 1957 Building - Boiler Room Tunnel/Old Pipe Cloth Wrap

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan/White | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280107C **Lab Sample ID:** 042018402-0187

Sample Description: 1957 Building - Boiler Room Tunnel/Old Pipe Cloth Wrap

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan/White | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280108 **Lab Sample ID:** 042018402-0188

Sample Description: 1957 Building - Tunnel/White Material on Stone Floor

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280109 **Lab Sample ID:** 042018402-0189

Sample Description: 1957 Building - Tunnel/White Material on Stone Floor

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280110A **Lab Sample ID:** 042018402-0190

Sample Description: 1957 Building - Kitchen/Ceramic Floor Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280110B **Lab Sample ID:** 042018402-0191

Sample Description: 1957 Building/Ceramic Floor Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280111A **Lab Sample ID:** 042018402-0192

Sample Description: 1957 Building/Ceramic Floor Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280111B **Lab Sample ID:** 042018402-0193

Sample Description: 1957 Building/Ceramic Floor Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280112A **Lab Sample ID:** 042018402-0194

Sample Description: 1957 Building/Toilet Room Ceramic Wall Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280112B **Lab Sample ID:** 042018402-0195

Sample Description: 1957 Building/Toilet Room Ceramic Wall Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280113A **Lab Sample ID:** 042018402-0196

Sample Description: 1957 Building/Toilet Room Ceramic Mud bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280113B **Lab Sample ID:** 042018402-0197

Sample Description: 1957 Building/Toilet Room Ceramic Mud bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280114A **Lab Sample ID:** 042018402-0198

Sample Description: 1957 Building/Toilet Room Ceramic Wall Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280114B **Lab Sample ID:** 042018402-0199

Sample Description: 1957 Building/Toilet Room Ceramic Wall Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280115A **Lab Sample ID:** 042018402-0200

Sample Description: 1957 Building - Custodial Closet/Ceramic Floor Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 5.0% | 95.0% | None Detected | |

Client Sample ID: 07280115B **Lab Sample ID:** 042018402-0201

Sample Description: 1957 Building - Custodial Closet/Ceramic Floor Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280116A **Lab Sample ID:** 042018402-0202

Sample Description: 1957 Building - Custodial Closet/Ceramic Floor Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Black | 0.0% | 100.0% | None Detected | Result includes a small amount of inseparable attached material |

Client Sample ID: 07280116B **Lab Sample ID:** 042018402-0203

Sample Description: 1957 Building - Toilet Room/Ceramic Floor Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280117A **Lab Sample ID:** 042018402-0204

Sample Description: 1957 Building - Toilet Room/Paper under Ceramic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 25.0% | 75.0% | None Detected | |

Client Sample ID: 07280117B **Lab Sample ID:** 042018402-0205

Sample Description: 1957 Building - Toilet Room/Paper under Ceramic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 30.0% | 70.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280118A **Lab Sample ID:** 042018402-0206

Sample Description: 1957 Building - Room 2/Yellow Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280118B **Lab Sample ID:** 042018402-0207

Sample Description: 1957 Building - Room 24/Yellow Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280118C **Lab Sample ID:** 042018402-0208

Sample Description: 1957 Building - Stage Side Entrance/Yellow Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280119 **Lab Sample ID:** 042018402-0209

Sample Description: 1957 Building - Stage Side Entrance/Black Mastic mixed in 118C

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280120A **Lab Sample ID:** 042018402-0210

Sample Description: 1957 Building - Gym and Café/Thick Rolled Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280120B **Lab Sample ID:** 042018402-0211

Sample Description: 1957 Building - Gym and Café/Thick Rolled Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280121A **Lab Sample ID:** 042018402-0212

Sample Description: 1957 Building - Gym and Café/Thick Rolled Flooring Yellow Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280121B **Lab Sample ID:** 042018402-0213

Sample Description: 1957 Building - Gym and Café/Thick Rolled Flooring Yellow Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280122A **Lab Sample ID:** 042018402-0214

Sample Description: 1957 Building - Stage/Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280122B **Lab Sample ID:** 042018402-0215

Sample Description: 1957 Building - Stage/Sheet Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280123A **Lab Sample ID:** 042018402-0216

Sample Description: 1957 Building - Kitchen Storage/12 x 12 Gray Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280123B **Lab Sample ID:** 042018402-0217

Sample Description: 1957 Building - Kitchen Storage/12 x 12 Gray Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280124A **Lab Sample ID:** 042018402-0218

Sample Description: 1957 Building - Kitchen Storage/12 x 12 Gray Floor Tile Yellow Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280124B **Lab Sample ID:** 042018402-0219

Sample Description: 1957 Building - Kitchen Storage/12 x 12 Gray Floor Tile Yellow Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|--|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Yellow | 0.0% | 100.0% | None Detected | Result includes a small amount of inseparable leveler. |

Client Sample ID: 07280125A **Lab Sample ID:** 042018402-0220

Sample Description: 1957 Building - Room 16/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280125B **Lab Sample ID:** 042018402-0221

Sample Description: 1957 Building - Room 2/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280125C **Lab Sample ID:** 042018402-0222

Sample Description: 1957 Building - Nurse Office/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Beige | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280126A **Lab Sample ID:** 042018402-0223

Sample Description: 1957 Building - Room 16/12 x 12 Floor Tile Yellow Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280126B **Lab Sample ID:** 042018402-0224

Sample Description: 1957 Building - Room 2/12 x 12 Floor Tile Yellow Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280127A **Lab Sample ID:** 042018402-0225

Sample Description: 1957 Building - Room 16/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|-------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | | | | Layer Not Present | |

Client Sample ID: 07280127B **Lab Sample ID:** 042018402-0226

Sample Description: 1957 Building - Room 2/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|-------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | | | | Layer Not Present | |

Client Sample ID: 07280127C **Lab Sample ID:** 042018402-0227

Sample Description: 1957 Building - Room 17/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280127D **Lab Sample ID:** 042018402-0228

Sample Description: 1957 Building - Nurse Office/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280128A **Lab Sample ID:** 042018402-0229

Sample Description: 1957 Building - Gym and Café/Black Material under Rolled Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Black | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280128B **Lab Sample ID:** 042018402-0230

Sample Description: 1957 Building - Gym and Café/Black Material under Rolled Flooring

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280129A **Lab Sample ID:** 042018402-0231

Sample Description: 1957 Building - Corridor 15/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280129B **Lab Sample ID:** 042018402-0232

Sample Description: 1957 Building - Corridor Rope 2/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Beige | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280130A **Lab Sample ID:** 042018402-0233

Sample Description: 1957 Building - Corridor 15/12 x 12 Floor Tile Brown Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280130B **Lab Sample ID:** 042018402-0234

Sample Description: 1957 Building - Corridor Café 2/12 x 12 Floor Tile Brown Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280131A **Lab Sample ID:** 042018402-0235

Sample Description: 1957 Building - Corridor 15/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 97.0% | 3% Chrysotile | |

Client Sample ID: 07280131B **Lab Sample ID:** 042018402-0236

Sample Description: 1957 Building - Corridor Café 2/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280132 **Lab Sample ID:** 042018402-0237

Sample Description: 1957 Building - Gym/Cove Base Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280133 **Lab Sample ID:** 042018402-0238

Sample Description: 1957 Building - Nurse Office/Cove Base Pink

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Pink | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280134 **Lab Sample ID:** 042018402-0239

Sample Description: 1957 Building - Room 2/Cove Base Tan and Brown

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Brown/Gray/Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280135A **Lab Sample ID:** 042018402-0240

Sample Description: 1957 Building - Gym/Cove Base Adhesive Yellow

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280135B **Lab Sample ID:** 042018402-0241

Sample Description: 1957 Building - Nurse Office/Cove Base Adhesive Yellow

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280135C **Lab Sample ID:** 042018402-0242

Sample Description: 1957 Building - Room 2/Cove Base Adhesive Yellow

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280136A **Lab Sample ID:** 042018402-0243

Sample Description: 1957 Building - Toilet Room/Newer Door Caulk Interior White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280136B **Lab Sample ID:** 042018402-0244

Sample Description: 1957 Building - Toilet Room/Newer Door Caulk Interior White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280137A **Lab Sample ID:** 042018402-0245

Sample Description: 1957 Building - Toilet Room/Newer Door Caulk Interior Tan

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Tan | 0.0% | 100.0% | None Detected | |



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| EMSL Order ID: | 042018402 |
| Customer ID: | LANG78 |
| Customer PO: | Public School |
| Project ID: | |

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280137B **Lab Sample ID:** 042018402-0246

Sample Description: 1957 Building - Toilet Room/Newer Door Caulk Interior Tan

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280138A **Lab Sample ID:** 042018402-0247

Sample Description: 1957 Building - Room 14/Interior Window Glaze Black Rubbery

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280138B **Lab Sample ID:** 042018402-0248

Sample Description: 1957 Building - Cust Office Exit Door/Interior Window Glaze Black Rubbery

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280139A **Lab Sample ID:** 042018402-0249

Sample Description: 1957 Building - Gym and Café/Door Window Glazing Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280139B **Lab Sample ID:** 042018402-0250

Sample Description: 1957 Building - Nurse Office/Door Window Glazing Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280140A **Lab Sample ID:** 042018402-0251

Sample Description: 1957 Building - Room 15/Interior Window Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 97.0% | 3% Chrysotile | |

Client Sample ID: 07280140B **Lab Sample ID:** 042018402-0252

Sample Description: 1957 Building - Room 16/Interior Window Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | | | | Positive Stop (Not Analyzed) | |

Client Sample ID: 07280141A **Lab Sample ID:** 042018402-0253

Sample Description: 1957 Building - Room 2 Closet/Interior Window Wall Old White Thin Window Glaze

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------|---------------|-------|--------------|-------------|-------------------|--|
| | | | Fibrous | Non-Fibrous | | |
| 400 PLM Pt Ct | 8/13/2020 | Tan | 0.0% | 100.0% | <0.25% Chrysotile | Point Count performed on NOB material without gravimetric reduction at client request. Asbestos results may be under-reported. |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280141B **Lab Sample ID:** 042018402-0254

Sample Description: 1957 Building - Room 2 Closet/Interior Window Wall Old White Thin Window Glaze

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------|---------------|-------|--------------|-------------|-------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| 400 PLM Pt Ct | 8/13/2020 | Tan | 0.0% | 100.0% | <0.25% Chrysotile | |

Client Sample ID: 07280142A **Lab Sample ID:** 042018402-0255

Sample Description: 1957 Building - Kitchen/Interior Exterior Door Old Door Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray | 0.0% | 97.0% | 3% Chrysotile | |

Client Sample ID: 07280142B **Lab Sample ID:** 042018402-0256

Sample Description: 1957 Building - Kitchen/Interior Exterior Door Old Door Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | | | | Positive Stop (Not Analyzed) | |

Client Sample ID: 07280143A **Lab Sample ID:** 042018402-0257

Sample Description: 1957 Building - Cust Office/Interior Exterior Door Old Door Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | Gray/Green | 0.0% | 97.0% | 3% Chrysotile | |

Client Sample ID: 07280143B **Lab Sample ID:** 042018402-0258

Sample Description: 1957 Building - Cust Office/Interior Interior Door Old Door Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/11/2020 | | | | Positive Stop (Not Analyzed) | |

Client Sample ID: 07280144 **Lab Sample ID:** 042018402-0259

Sample Description: 1965 Addition - Classroom/Ceiling Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280145 **Lab Sample ID:** 042018402-0260

Sample Description: 1965 Addition - Main Office/Ceiling Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280146 **Lab Sample ID:** 042018402-0261

Sample Description: 1965 Addition - Main Office/Ceiling Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 80.0% | 20.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280147 **Lab Sample ID:** 042018402-0262

Sample Description: 1965 Addition - Staff Toilet/Ceiling Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280148A **Lab Sample ID:** 042018402-0263

Sample Description: 1965 Addition - Corridor/1 x 1 Wall Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280148B **Lab Sample ID:** 042018402-0264

Sample Description: 1965 Addition/1 x 1 Wall Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280149A **Lab Sample ID:** 042018402-0265

Sample Description: 1965 Addition/1 x 1 Wall Tile Brown Glue Daubs

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280149B **Lab Sample ID:** 042018402-0266

Sample Description: 1965 Addition/1 x 1 Wall Tile Brown Glue Daubs

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280150A **Lab Sample ID:** 042018402-0267

Sample Description: 1965 Addition/Texture Roof Decking

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 60.0% | 40.0% | None Detected | |

Client Sample ID: 07280150B **Lab Sample ID:** 042018402-0268

Sample Description: 1965 Addition/Texture Roof Decking

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 60.0% | 40.0% | None Detected | |

Client Sample ID: 07280151A **Lab Sample ID:** 042018402-0269

Sample Description: 1965 Addition/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 10.0% | 90.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280151B **Lab Sample ID:** 042018402-0270

Sample Description: 1965 Addition/Sheetrock

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 8.0% | 92.0% | None Detected | |

Client Sample ID: 07280152A **Lab Sample ID:** 042018402-0271

Sample Description: 1965 Addition/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280152B **Lab Sample ID:** 042018402-0272

Sample Description: 1965 Addition/Sheetrock Taping Compound

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280153A **Lab Sample ID:** 042018402-0273

Sample Description: 1965 Addition - Offices/Roof Deck Caulk Dark Brown

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 96.0% | 4% Chrysotile | |

Client Sample ID: 07280153B **Lab Sample ID:** 042018402-0274

Sample Description: 1965 Addition - Offices/Roof Deck Caulk Dark Brown

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280154A **Lab Sample ID:** 042018402-0275

Sample Description: 1965 Addition - Room 6/Blackboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280154B **Lab Sample ID:** 042018402-0276

Sample Description: 1965 Addition - Room 6/Blackboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280155A **Lab Sample ID:** 042018402-0277

Sample Description: 1965 Addition/Bull Boards Green Board

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Green | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280155B **Lab Sample ID:** 042018402-0278

Sample Description: 1965 Addition/Bull Boards Green Board

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Green | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280156A **Lab Sample ID:** 042018402-0279

Sample Description: 1965 Addition - Room 7/Wallboard above Black Board

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280156B **Lab Sample ID:** 042018402-0280

Sample Description: 1965 Addition - Room 7/Wallboard above Black Board

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280157A **Lab Sample ID:** 042018402-0281

Sample Description: 1965 Addition - Room 7/Wallboard above Black Board Adhesive Dark Brown

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280157B **Lab Sample ID:** 042018402-0282

Sample Description: 1965 Addition - Room 7/Wallboard above Black Board Adhesive Dark Brown

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280158A **Lab Sample ID:** 042018402-0283

Sample Description: 1965 Addition - Main Closet/Gray Sink Undercoating

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 50.0% | 50.0% | None Detected | |

Client Sample ID: 07280158B **Lab Sample ID:** 042018402-0284

Sample Description: 1965 Addition - Room 3/Gray Sink Undercoating

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 35.0% | 65.0% | None Detected | |

Client Sample ID: 07280159A **Lab Sample ID:** 042018402-0285

Sample Description: 1965 Addition - Room 6/Black Sink Undercoating

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 95.0% | 5% Chrysotile | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280159B **Lab Sample ID:** 042018402-0286

Sample Description: 1965 Addition - Room 7/Black Sink Undercoating

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280160A **Lab Sample ID:** 042018402-0287

Sample Description: 1965 Addition - Corridor/Fiberglass pipe Material in Foil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280160B **Lab Sample ID:** 042018402-0288

Sample Description: 1965 Addition - Corridor/Fiberglass pipe Material in Foil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280160C **Lab Sample ID:** 042018402-0289

Sample Description: 1965 Addition - Corridor/Fiberglass pipe Material in Foil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280161A **Lab Sample ID:** 042018402-0290

Sample Description: 1965 Addition - Tunnel S/Suspect TSI Debris in Soil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 85.0% | 15% Chrysotile | |

Client Sample ID: 07280161B **Lab Sample ID:** 042018402-0291

Sample Description: 1965 Addition - Tunnel S/Suspect TSI Debris in Soil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280161C **Lab Sample ID:** 042018402-0292

Sample Description: 1965 Addition - Tunnel S/Suspect TSI Debris in Soil

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280162A **Lab Sample ID:** 042018402-0293

Sample Description: 1965 Addition - Staff Toilet/Ceramic Wall Tile Dark Gray Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280162B **Lab Sample ID:** 042018402-0294

Sample Description: 1965 Addition - Staff Toilet/Ceramic Wall Tile Dark Gray Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280163A **Lab Sample ID:** 042018402-0295

Sample Description: 1965 Addition - Staff Toilet/Ceramic Wall Tile Light Gray Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280163B **Lab Sample ID:** 042018402-0296

Sample Description: 1965 Addition - Staff Toilet/Ceramic Wall Tile Light Gray Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280164A **Lab Sample ID:** 042018402-0297

Sample Description: 1965 Addition - Room 6/Ceramic Floor Tile Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280164B **Lab Sample ID:** 042018402-0298

Sample Description: 1965 Addition - Toilet Lounge/Ceramic Floor Tile Grout

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280165A **Lab Sample ID:** 042018402-0299

Sample Description: 1965 Addition - Room 6 Toilet/Ceramic Floor Tile Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280165B **Lab Sample ID:** 042018402-0300

Sample Description: 1965 Addition - Room 6 Toilet/Ceramic Floor Tile Mud Bed

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280166A **Lab Sample ID:** 042018402-0301

Sample Description: 1965 Addition - Staff Lounge Toilet/Ceramic Floor Gray Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280166B **Lab Sample ID:** 042018402-0302

Sample Description: 1965 Addition - Staff Lounge Toilet/Ceramic Floor Gray Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280167A **Lab Sample ID:** 042018402-0303

Sample Description: 1965 Addition - Staff Lounge Toilet/Ceramic Floor Thick Mud Bed Middle Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280167B **Lab Sample ID:** 042018402-0304

Sample Description: 1965 Addition - Staff Lounge Toilet/Ceramic Floor Thick Mud Bed Middle Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280168A **Lab Sample ID:** 042018402-0305

Sample Description: 1965 Addition - Staff Lounge Toilet/Ceramic Floor Thick Mud Bed White Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280168B **Lab Sample ID:** 042018402-0306

Sample Description: 1965 Addition - Staff Lounge Toilet/Ceramic Floor Thick Mud Bed White Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280169A **Lab Sample ID:** 042018402-0307

Sample Description: 1965 Addition - Office/Yellow Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280169B **Lab Sample ID:** 042018402-0308

Sample Description: 1965 Addition - Room 4/Yellow Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|--------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280170A **Lab Sample ID:** 042018402-0309

Sample Description: 1965 Addition - Rear Office/Gray Material Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280170B **Lab Sample ID:** 042018402-0310

Sample Description: 1965 Addition - Front Office/Gray Material Carpet Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280171A **Lab Sample ID:** 042018402-0311

Sample Description: 1965 Addition - Office/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280171B **Lab Sample ID:** 042018402-0312

Sample Description: 1965 Addition - Corridor/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280171C **Lab Sample ID:** 042018402-0313

Sample Description: 1965 Addition - Room 7/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280171D **Lab Sample ID:** 042018402-0314

Sample Description: 1965 Addition - Speech/12 x 12 Floor Tile

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280172A **Lab Sample ID:** 042018402-0315

Sample Description: 1965 Addition - Office/12 x 12 Floor Tile Gray Material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 15.0% | 85.0% | None Detected | |

Client Sample ID: 07280172B **Lab Sample ID:** 042018402-0316

Sample Description: 1965 Addition - Corridor/12 x 12 Floor Tile Gray Material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 15.0% | 85.0% | None Detected | |

Client Sample ID: 07280172C **Lab Sample ID:** 042018402-0317

Sample Description: 1965 Addition - Room 7/12 x 12 Floor Tile Gray Material

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280173A **Lab Sample ID:** 042018402-0318

Sample Description: 1965 Addition - Office/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280173B **Lab Sample ID:** 042018402-0319

Sample Description: 1965 Addition - Corridor/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280173C **Lab Sample ID:** 042018402-0320

Sample Description: 1965 Addition - Speech/12 x 12 Floor Tile Black Mastic

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280174A **Lab Sample ID:** 042018402-0321

Sample Description: 1965 Addition - Office/Cove Base

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280174B **Lab Sample ID:** 042018402-0322

Sample Description: 1965 Addition - Staff Lounge/Cove Base

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280175A **Lab Sample ID:** 042018402-0323

Sample Description: 1965 Addition - Office/Cove Base Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280175B **Lab Sample ID:** 042018402-0324

Sample Description: 1965 Addition - Staff Lounge/Cove Base Adhesive

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280176A **Lab Sample ID:** 042018402-0325

Sample Description: 1965 Addition - Room 6/Old Window Interior Caulk Perimeter

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 0.0% | 95.0% | 5% Chrysotile | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280176B **Lab Sample ID:** 042018402-0326

Sample Description: 1965 Addition - Room 7/Old Window Interior Caulk Perimeter

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280177A **Lab Sample ID:** 042018402-0327

Sample Description: 1965 Addition - Office/Door Window Glazing Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280177B **Lab Sample ID:** 042018402-0328

Sample Description: 1965 Addition - Office/Interior Window Glazing Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280178A **Lab Sample ID:** 042018402-0329

Sample Description: 1965 Addition/Window Sill Caulk Newer White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280178B **Lab Sample ID:** 042018402-0330

Sample Description: 1965 Addition/Window Sill Caulk Newer White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280179A **Lab Sample ID:** 042018402-0331

Sample Description: 1965 Addition/Newer Interior Door Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280179B **Lab Sample ID:** 042018402-0332

Sample Description: 1965 Addition/Newer Interior Door Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray/White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280180A **Lab Sample ID:** 042018402-0333

Sample Description: 1965 Addition - Staff Lounge/Sheetrock Ceiling

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown/White | 15.0% | 85.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280180B **Lab Sample ID:** 042018402-0334

Sample Description: 1965 Addition - Staff Lounge/Sheetrock Ceiling

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Brown/White | 15.0% | 85.0% | None Detected | |

Client Sample ID: 07280181A **Lab Sample ID:** 042018402-0335

Sample Description: Garage at Side Interior/Sheetrock Ceiling Taping Compound

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280181B **Lab Sample ID:** 042018402-0336

Sample Description: Garage at Side Interior/Sheetrock Ceiling Taping Compound

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280182A **Lab Sample ID:** 042018402-0337

Sample Description: Garage at Side Interior/Interior Wall Caulk

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280182B **Lab Sample ID:** 042018402-0338

Sample Description: Garage at Side Interior/Interior Wall Caulk

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280183A **Lab Sample ID:** 042018402-0339

Sample Description: Garage at Side Interior/Interior Door Caulk

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280183B **Lab Sample ID:** 042018402-0340

Sample Description: Garage at Side Interior/Interior Door Caulk

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280184A **Lab Sample ID:** 042018402-0341

Sample Description: Garage at Side Interior/Exterior Vent Caulk White

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280184B **Lab Sample ID:** 042018402-0342

Sample Description: Garage at Side Interior/Exterior Vent Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280185A **Lab Sample ID:** 042018402-0343

Sample Description: Garage at Side between Left Exterior/Wall Expansion Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280185B **Lab Sample ID:** 042018402-0344

Sample Description: Garage at Side between Left Exterior/Wall Expansion Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Brown | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280186A **Lab Sample ID:** 042018402-0345

Sample Description: Garage at Side between Right Exterior/Black Material Visible Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280186B **Lab Sample ID:** 042018402-0346

Sample Description: Garage at Side between Right Exterior/Black Material Visible Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280187A **Lab Sample ID:** 042018402-0347

Sample Description: Garage at Side between Right Exterior/Black Material Visible above Vent

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black/Green | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280187B **Lab Sample ID:** 042018402-0348

Sample Description: Garage at Side between Right Exterior/Black Material Visible above Vent

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black/Green | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280188A **Lab Sample ID:** 042018402-0349

Sample Description: Garage Right Side/Black Material behind Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 6.0% | 94.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280188B **Lab Sample ID:** 042018402-0350

Sample Description: Garage Right Side/Black Material behind Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 5.0% | 95.0% | None Detected | |

Client Sample ID: 07280189A **Lab Sample ID:** 042018402-0351

Sample Description: Garage Left Side/Black Paper Material behind Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280189B **Lab Sample ID:** 042018402-0352

Sample Description: Garage Left Side/Black Paper Material behind Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280190A **Lab Sample ID:** 042018402-0353

Sample Description: Garage Right Side/Exterior Brick

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280190B **Lab Sample ID:** 042018402-0354

Sample Description: Garage Left Side/Exterior Brick

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280191A **Lab Sample ID:** 042018402-0355

Sample Description: Garage Right Side/Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280191B **Lab Sample ID:** 042018402-0356

Sample Description: Garage Left Side/Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280192A **Lab Sample ID:** 042018402-0357

Sample Description: 1989 Exterior/Newer Window Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280192B **Lab Sample ID:** 042018402-0358

Sample Description: 1989 Exterior/Newer Window Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280193A **Lab Sample ID:** 042018402-0359

Sample Description: 1989 Exterior/Door Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280193B **Lab Sample ID:** 042018402-0360

Sample Description: 1989 Exterior/Door Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280194A **Lab Sample ID:** 042018402-0361

Sample Description: 1989 Exterior/Wall Expansion Gray Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280194B **Lab Sample ID:** 042018402-0362

Sample Description: 1989 Exterior/Wall Expansion Gray Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280195A **Lab Sample ID:** 042018402-0363

Sample Description: 1989 Exterior/Brick

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280195B **Lab Sample ID:** 042018402-0364

Sample Description: 1989 Exterior/Brick

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280196A **Lab Sample ID:** 042018402-0365

Sample Description: 1989 Exterior/Brick Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280196B **Lab Sample ID:** 042018402-0366

Sample Description: 1989 Exterior/Brick Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280197A **Lab Sample ID:** 042018402-0367

Sample Description: Exterior/Gym Soffitt Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280197B **Lab Sample ID:** 042018402-0368

Sample Description: Exterior/Gym Soffitt Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280198A **Lab Sample ID:** 042018402-0369

Sample Description: Exterior/Wall Panel in Windows White Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 3.0% | 97.0% | None Detected | |

Client Sample ID: 07280198B **Lab Sample ID:** 042018402-0370

Sample Description: Exterior/Wall Panel in Windows White Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280199A **Lab Sample ID:** 042018402-0371

Sample Description: Exterior/Wall Panel in Windows Gray Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 10.0% | 90.0% | None Detected | |

Client Sample ID: 07280199B **Lab Sample ID:** 042018402-0372

Sample Description: Exterior/Wall Panel in Windows Gray Layer

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 10.0% | 90.0% | None Detected | |

Client Sample ID: 07280200A **Lab Sample ID:** 042018402-0373

Sample Description: Exterior/Newer Security Door Entrance Wall Material Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 15.0% | 85.0% | None Detected | |



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| | |
|----------------|---------------|
| EMSL Order ID: | 042018402 |
| Customer ID: | LANG78 |
| Customer PO: | Public School |
| Project ID: | |

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280200B **Lab Sample ID:** 042018402-0374

Sample Description: Exterior/Newer Security Door Entrance Wall Material Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 15.0% | 85.0% | None Detected | |

Client Sample ID: 07280201A **Lab Sample ID:** 042018402-0375

Sample Description: Exterior - Portables/Window Door Wall Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280201B **Lab Sample ID:** 042018402-0376

Sample Description: Exterior - Portables/Window Door Wall Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280202A **Lab Sample ID:** 042018402-0377

Sample Description: Exterior - 1950's/Exterior Vent Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Red | 0.0% | 95.0% | 5% Chrysotile | |

Client Sample ID: 07280202B **Lab Sample ID:** 042018402-0378

Sample Description: Exterior - 1950's/Exterior Vent Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | Positive Stop (Not Analyzed) | |

Client Sample ID: 07280203A **Lab Sample ID:** 042018402-0379

Sample Description: Exterior - Kitchen/Exterior White Window Glazing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------|---------------|------------|--------------|-------------|-------------------|--|
| | | | Fibrous | Non-Fibrous | | |
| 400 PLM Pt Ct | 8/13/2020 | Gray/White | 0.0% | 100.0% | <0.25% Chrysotile | Point Count performed on NOB material without gravimetric reduction at client request. Asbestos results may be under-reported. |

Client Sample ID: 07280203B **Lab Sample ID:** 042018402-0380

Sample Description: Exterior - Kitchen/Exterior White Window Glazing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|---------------|---------------|------------|--------------|-------------|-------------------|--|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray/White | 0.0% | 100.0% | <1% Chrysotile | |
| 400 PLM Pt Ct | 8/13/2020 | Gray/White | 0.0% | 100.0% | <0.25% Chrysotile | Point Count performed on NOB material without gravimetric reduction at client request. Asbestos results may be under-reported. |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280204A **Lab Sample ID:** 042018402-0381

Sample Description: Exterior - Kitchen/Window Door Wall Panel Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 0.0% | 96.0% | 4% Chrysotile | |

Client Sample ID: 07280204B **Lab Sample ID:** 042018402-0382

Sample Description: Exterior - Kitchen/Window Door Wall Panel Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280205A **Lab Sample ID:** 042018402-0383

Sample Description: Exterior - Classroom/Window Pane Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 96.0% | 4% Chrysotile | |

Client Sample ID: 07280205B **Lab Sample ID:** 042018402-0384

Sample Description: Exterior - Classroom/Window Pane Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280206A **Lab Sample ID:** 042018402-0385

Sample Description: Exterior - BS Boiler Room/Door Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Red | 0.0% | 95.0% | 5% Chrysotile | |

Client Sample ID: 07280206B **Lab Sample ID:** 042018402-0386

Sample Description: Exterior - BS Boiler Room/Door Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280207A **Lab Sample ID:** 042018402-0387

Sample Description: Exterior - Kitchen/Wall Expansion Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 0.0% | 96.0% | 4% Chrysotile | |

Client Sample ID: 07280207B **Lab Sample ID:** 042018402-0388

Sample Description: Exterior - 1950 and 1960/Wall Expansion Caulk - Hard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280208 **Lab Sample ID:** 042018402-0389

Sample Description: Exterior - 1950 and 1960/Wall Expansion Caulk - Soft

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Tan | 0.0% | 93.0% | 7% Chrysotile | |

Client Sample ID: 07280209A **Lab Sample ID:** 042018402-0390

Sample Description: Exterior - 1950's/Foundation Damp-proofing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280209B **Lab Sample ID:** 042018402-0391

Sample Description: Exterior - 1950's/Foundation Damp-proofing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray/Tan | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280210A **Lab Sample ID:** 042018402-0392

Sample Description: Exterior - 1960's/Foundation Damp-proofing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/Yellow | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280210B **Lab Sample ID:** 042018402-0393

Sample Description: Exterior - 1960's/Foundation Damp-proofing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280211A **Lab Sample ID:** 042018402-0394

Sample Description: Exterior - 1960's/Tar on Copper Flash behind Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 94.0% | 6% Chrysotile | |

Client Sample ID: 07280211B **Lab Sample ID:** 042018402-0395

Sample Description: Exterior - 1960's/Tar on Copper Flash behind Brick Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |

Client Sample ID: 07280212 **Lab Sample ID:** 042018402-0396

Sample Description: Exterior - 1960's/Transite Panel

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 60.0% | 40% Chrysotile | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280213A **Lab Sample ID:** 042018402-0397

Sample Description: Exterior - 1960's/Black Net behind Brick at Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280213B **Lab Sample ID:** 042018402-0398

Sample Description: Exterior - 1960's/Black Net behind Brick at Foundation

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 60.0% | 40.0% | None Detected | |

Client Sample ID: 07280214A **Lab Sample ID:** 042018402-0399

Sample Description: Exterior - 1960's/Brik

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280214B **Lab Sample ID:** 042018402-0400

Sample Description: Exterior - 1960's/Brik

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Red | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280215A **Lab Sample ID:** 042018402-0401

Sample Description: Exterior - 1960's/Brick Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280215B **Lab Sample ID:** 042018402-0402

Sample Description: Exterior - 1960's/Brick Mortar

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280216A **Lab Sample ID:** 042018402-0403

Sample Description: Exterior - 1960's Office/Window Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 0.0% | 94.0% | 6% Chrysotile | |

Client Sample ID: 07280216B **Lab Sample ID:** 042018402-0404

Sample Description: Exterior - 1960's Office/Window Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|----------|------------------------------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | | Positive Stop (Not Analyzed) |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280217A **Lab Sample ID:** 042018402-0405

Sample Description: Exterior - 1960's Class/Window Wall Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray/White | 0.0% | 95.0% | 5% Chrysotile | |

Client Sample ID: 07280217B **Lab Sample ID:** 042018402-0406

Sample Description: Exterior - 1960's Class/Window Wall Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | Positive Stop (Not Analyzed) | |

Client Sample ID: 07280217C **Lab Sample ID:** 042018402-0407

Sample Description: Exterior - 1960's Class/Window Wall Caulk - Old

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | Positive Stop (Not Analyzed) | |

Client Sample ID: 07280218A **Lab Sample ID:** 042018402-0408

Sample Description: Exterior 1950 and 1960/Newer Window Glaze White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280218B **Lab Sample ID:** 042018402-0409

Sample Description: Exterior 1950 and 1960/Newer Window Glaze White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280219A **Lab Sample ID:** 042018402-0410

Sample Description: Exterior 1950 and 1960/Newer Window Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280219B **Lab Sample ID:** 042018402-0411

Sample Description: Exterior 1950 and 1960/Newer Window Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280220A **Lab Sample ID:** 042018402-0412

Sample Description: Exterior 1950 and 1960/Newer Window Glaze Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 0.0% | 100.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280220B **Lab Sample ID:** 042018402-0413

Sample Description: Exterior 1950 and 1960/Newer Window Glaze Black

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280221A **Lab Sample ID:** 042018402-0414

Sample Description: Exterior 1950 and 1960/Newer Window Wall Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 97.0% | 3% Chrysotile | |

Client Sample ID: 07280221B **Lab Sample ID:** 042018402-0415

Sample Description: Exterior 1950 and 1960/Newer Window Wall Caulk White

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|------------------------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | | | | Positive Stop (Not Analyzed) | |

Client Sample ID: 07280222A **Lab Sample ID:** 042018402-0416

Sample Description: Exterior 1950 and 1960 - Front Entry/Newer Wall Exp Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280222B **Lab Sample ID:** 042018402-0417

Sample Description: Exterior 1950 and 1960 - Front Entry/Newer Wall Exp Caulk

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280223A **Lab Sample ID:** 042018402-0418

Sample Description: Exterior 1950 and 1960 - Front Entry/Newer Door Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280223B **Lab Sample ID:** 042018402-0419

Sample Description: Exterior 1950 and 1960 - Front Entry/Newer Door Caulk Gray

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280224A **Lab Sample ID:** 042018402-0420

Sample Description: Garage Roofs/Top Layer Shingles

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 10.0% | 90.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280224B **Lab Sample ID:** 042018402-0421

Sample Description: Garage Roofs/Top Layer Shingles

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Red/Black | 15.0% | 85.0% | None Detected | |

Client Sample ID: 07280225A **Lab Sample ID:** 042018402-0422

Sample Description: Garage Roofs/Bottom Layer Shingles

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 10.0% | 90.0% | None Detected | |

Client Sample ID: 07280225B **Lab Sample ID:** 042018402-0423

Sample Description: Garage Roofs/Bottom Layer Shingles

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 15.0% | 85.0% | None Detected | |

Client Sample ID: 07280226A **Lab Sample ID:** 042018402-0424

Sample Description: Garage Roofs/Water and Ice Dam

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Black | 10.0% | 90.0% | None Detected | |

Client Sample ID: 07280226B **Lab Sample ID:** 042018402-0425

Sample Description: Garage Roofs/Water and Ice Dam

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Black | 10.0% | 90.0% | None Detected | |

Client Sample ID: 07280227A **Lab Sample ID:** 042018402-0426

Sample Description: Portable Roof/Field Gray Paper on Foam

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280227B **Lab Sample ID:** 042018402-0427

Sample Description: Portable Roof/Perimeter Flash

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280227C **Lab Sample ID:** 042018402-0428

Sample Description: Portable Roof/Penetration Flash

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 85.0% | 15.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280228A **Lab Sample ID:** 042018402-0429

Sample Description: 1989 Roofs - Field/Fiberboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280228B **Lab Sample ID:** 042018402-0430

Sample Description: 1989 Roofs - Field/Fiberboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Brown | 95.0% | 5.0% | None Detected | |

Client Sample ID: 07280229A **Lab Sample ID:** 042018402-0431

Sample Description: 1989 Roofs - Field Perimeter/Paper Backing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280229B **Lab Sample ID:** 042018402-0432

Sample Description: 1989 Roofs - Field Perimeter/Paper Backing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Tan | 95.0% | 5.0% | None Detected | |

Client Sample ID: 07280230A **Lab Sample ID:** 042018402-0433

Sample Description: 1989 Roofs - Field/Gray Gypsum

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280230B **Lab Sample ID:** 042018402-0434

Sample Description: 1989 Roofs - Perimeter/Gray Gypsum

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 2.0% | 98.0% | None Detected | |

Client Sample ID: 07280231A **Lab Sample ID:** 042018402-0435

Sample Description: 1989 Roofs - Field/White and Gray Gypsum

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280231B **Lab Sample ID:** 042018402-0436

Sample Description: 1989 Roofs - Perimeter/White and Gray Gypsum

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Brown/White | 19.0% | 81.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280232A **Lab Sample ID:** 042018402-0437

Sample Description: 1960's Roof - Field/Fiberboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280232B **Lab Sample ID:** 042018402-0438

Sample Description: 1960's Roof - Field/Fiberboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Tan | 97.0% | 3.0% | None Detected | |

Client Sample ID: 07280233A **Lab Sample ID:** 042018402-0439

Sample Description: 1960's Roof - Field/Paper Backing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Tan | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280233B **Lab Sample ID:** 042018402-0440

Sample Description: 1960's Roof - Field/Paper Backing

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Tan | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280234A **Lab Sample ID:** 042018402-0441

Sample Description: 1960's Roof - Field/White Gypsum Soft Concrete

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280234B **Lab Sample ID:** 042018402-0442

Sample Description: 1960's Roof - Perimeter/White Gypsum Soft Concrete

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280235A **Lab Sample ID:** 042018402-0443

Sample Description: 1950'S Roof/Fiberboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 80.0% | 20.0% | None Detected | |

Client Sample ID: 07280235B **Lab Sample ID:** 042018402-0444

Sample Description: 1950'S Roof/Fiberboard

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Brown | 90.0% | 10.0% | None Detected | |



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EMSL Order ID: 042018402
Customer ID: LANG78
Customer PO: Public School
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280236A **Lab Sample ID:** 042018402-0445

Sample Description: 1950'S Roof/Paper Backing under Floor

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Brown | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280236B **Lab Sample ID:** 042018402-0446

Sample Description: 1950'S Roof/Paper Backing under Floor

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Brown | 90.0% | 10.0% | None Detected | |

Client Sample ID: 07280237A **Lab Sample ID:** 042018402-0447

Sample Description: 1950'S Roof - Field 2/White Gypsm Soft Concrete

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280237B **Lab Sample ID:** 042018402-0448

Sample Description: 1950'S Roof - Field 3/White Gypsm Soft Concrete

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280237C **Lab Sample ID:** 042018402-0449

Sample Description: 1950'S Roof/White Gypsm Soft Concrete

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 3.0% | 97.0% | None Detected | |

Client Sample ID: 07280238A **Lab Sample ID:** 042018402-0450

Sample Description: 1950'S Roof/Newer Caulk in Copper Gray

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/12/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280238B **Lab Sample ID:** 042018402-0451

Sample Description: 1950'S Roof/Newer Caulk in Copper Gray

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280239 **Lab Sample ID:** 042018402-0452

Sample Description: 1950'S Roof/Caulk at Chimney Copper White

| TEST | Analyzed | | Non-Asbestos | | Asbestos | Comment |
|------|-----------|-------|--------------|-------------|---------------|---------|
| | Date | Color | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Gray | 0.0% | 100.0% | None Detected | |



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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116

Client Sample ID: 07280240 **Lab Sample ID:** 042018402-0453

Sample Description: 1950'S Roof/Caulk on Metal Trim below Windows

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Tan/White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280241 **Lab Sample ID:** 042018402-0454

Sample Description: 1950'S Roof/Caulk on Metal Trim

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-----------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | Tan/White | 0.0% | 100.0% | None Detected | |

Client Sample ID: 07280242 **Lab Sample ID:** 042018402-0455

Sample Description: 1950'S Roof/Caulk on Window and Café

| TEST | Analyzed Date | Color | Non-Asbestos | | Asbestos | Comment |
|------|---------------|-------|--------------|-------------|---------------|---------|
| | | | Fibrous | Non-Fibrous | | |
| PLM | 8/13/2020 | White | 0.0% | 100.0% | None Detected | |

Analyst(s):

- Alex Francois PLM (35)
- Daniel Blake PLM (79)
- John Witcraft PLM (11)
- Kyle DeKarski PLM (63)
400 PLM Pt Ct (1)
- Mark Shuts PLM (123)
- Michelle Quach PLM (84)
- Quynh Vu PLM (4)
400 PLM Pt Ct (2)
- Rachel Irwin PLM (30)
400 PLM Pt Ct (1)

Reviewed and approved by:

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, LA #04127

Initial report from: 08/13/2020 13:57:36



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FAX: (856) 786-5974

EMSL Order Number (Lab Use Only):

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| Company: Langan CT | | EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different | |
|--|---------------------------------|---|---|
| Street: 555 Long Wharf Drive | | If Bill to is Different note instructions in Comments** Langan InvoiceCapture@ConcurSolutions.com Third Party Billing requires written authorization from third party | |
| City: New Haven | State/Province: CT | Zip/Postal Code: 06511 | Country: USA |
| Report To (Name): Matthew Myers | | Telephone #: 203.562.5771 | |
| Email Address: MMyers@Langan.com | | Fax #: 203.789.6142 | Purchase Order: |
| Project Name/Number: 140233601 | manufactory southeast school | Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email | Public School |
| U.S. State Samples Taken: CT | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input checked="" type="checkbox"/> Residential/Tax Exempt | |
| Turnaround Time (TAT) Options* - Please Check | | | |
| <input type="checkbox"/> 3 Hour | <input type="checkbox"/> 6 Hour | <input type="checkbox"/> 24 Hour | <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week |
| *For TEM Air 3 hr through 6 hr, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. | | | |
| PLM - Bulk (reporting limit) | | TEM - Bulk | |
| <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input checked="" type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) if <3% Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) <input type="checkbox"/> OSHA ID-191 Modified <input type="checkbox"/> Standard Addition Method | | <input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> NY ELAP Method 198.4 (TEM) <input type="checkbox"/> Chatfield Protocol (semi-quantitative) <input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique Other <input type="checkbox"/> | |
| <input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group | | Date Sampled: 7/28 + 7/29 / 2020 | |
| Samplers Name: Matt Myers + Willie Thompson | | Samplers Signature: <i>[Signatures]</i> | |
| Sample # | HA # | Sample Location | Material Description |
| 072801 | | 2001 Portables | Bags talc |
| 02 | | | Corridor Rm 13 |
| 03 | | | Rm 12 |
| 04 | | | 13 |
| 05 | | | 11 |
| 06 | | | Fiberstap Pipe Wrap Black material |
| B | | | |
| C | | | |
| 08A | | Center | @ Sheetrock |
| B | | | |
| Client Sample #(s): | | Total # of Samples: 432 (4550) | |
| Relinquished (Client): <i>[Signature]</i> | Date: 7/30/2020 | Time: 6pm | |
| Received (Lab): <i>[Signature]</i> EMSLFX | Date: 7/31/20 | Time: 1:30 | |
| Comments/Special Instructions: | | | |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|------------------------|-------------------------------------|
| 072809A | | 2001 Portables Ceiling | Sheetrock Taping Compound |
| ↓ B | | | ↓ |
| ↓ 10A | | Wall | Sheetrock |
| ↓ B | | | ↓ |
| ↓ 11A | | | Sheetrock Taping Compound |
| ↓ B | | | ↓ |
| ↓ 12A | | | Red Fire Stop Gulk |
| ↓ B | | | ↓ |
| ↓ 13A | | | Carpet Adhesive |
| ↓ B | | | ↓ |
| ↓ 14A | | Cust. Closet | Sheet Flooring |
| ↓ B | | | ↓ |
| ↓ 15A | | | Adhesive |
| ↓ B | | | ↓ |
| ↓ 16A | | Toilet Rms | Sheet Flooring |
| ↓ B | | | ↓ |
| ↓ 17A | | | Adhesive |
| ↓ B | | | ↓ |
| ↓ 18A | | | Cove Base |
| ↓ B | | | ↓ |
| ↓ 19A | | | Adhesive |
| ↓ B | | | ↓ |
| ↓ 20A | | | Door Window Glazing (Black Sticker) |
| ↓ B | | | (to rooms) ↓ |

*Comments/Special Instructions:



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| Sample # | HA # | Sample Location | Material Description |
|----------|------|---|--|
| 672821A | | 2001 Portables | Int Window Glazy (Ext Window) ^{white} |
| B | | | + |
| 22A | | | Door Window Glazy (black) |
| B | | | (ext entrance) + |
| 23A | | 1989 Additions ^{Egles Landing} | 2x4 Ceily Tile test |
| 24A | | | Rn2) + |
| 25 | | | Rn2) worm |
| 26 | | corridor | 2x2 Ceily T/pe (some rough) test |
| 27A | | | Sheetrock |
| 28 | | | + |
| 28A | | | + Tappy Compound |
| B | | | + + |
| 29A | | | Red Fire Stop Caulk |
| B | | | + |
| 30A | | | yellow Fire Stop Caulk |
| B | | | + |
| 31A | | | Rn2) Glue on Radiator fiberglass Panel |
| B | | | + |
| 32A | | | 20/21 Bulletin Board Glue is Tan |
| B | | | + + |
| 33A | | 23 Closet | Kiln |
| B | | | + |
| 34A | | | Rn 20 Gray Sink Under counter |
| B | | | 22 + |

*Comments/Special Instructions:

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|---------------------------------|-----------------------------------|
| 072835H | | 1989 Additions | cmu Blck |
| B | | ↓ | ↓ |
| 36A | | ↓ | ↓ Mortar |
| B | | ↓ | ↓ |
| 37A | | Corridor | Carpet Adhesive |
| B | | ↓ | ↓ |
| 38A | | Rm 20 | Sheet Floor ^{toilet} |
| B | | 9 | ↓ |
| 39A | | 20 | ↓ Adhesive yellow |
| B | | ↓ | ↓ |
| 40A | | 20 | ↓ Adhesive Gray yellow |
| B | | 9 | ↓ |
| 41A | | Rm 21 | toilet room Ceramic Floor med Bed |
| B | | ↓ | ↓ ↓ |
| 42A | | ↓ | ↓ Grout |
| B | | ↓ | ↓ |
| 43A | | Security Entry Adjacent kitchen | Blue Floor / concrete |
| B | | ↓ | ↓ |
| 44A | | Corridor 23/24 | Gray Floor, Leveler |
| B | | Corridor 23/24 | Gray Floor, Leveler |
| 45 | | Rm 21 | 12x12 Floor Tile |
| 46 | | Rm 21 | ↓ Black mastic |
| 47 | | Rm 9 | 12x12 Floor Tile |
| 48 | | ↓ | ↓ Black mastic |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|----------------------|-----------------------------------|
| 072849 | | 1989 Addition Rm 20 | Brown FT Mastic |
| 50 | | Corridor 22/24 | 12x12 Floor Tile |
| 51 | | ↓ | + Black mastic |
| 52 | | Corridor Kitchen/Gym | 12x12 Floor Tile |
| 53 | | ↓ | ↓ yellow mastic |
| 54 | | ↓ | Black + |
| 55A | | Rm 8/9 | low base |
| B | | Eagles Landing | ↓ |
| 56A | | Rm 8/9 | white adhesive |
| B | | ↓ | ↓ |
| 57A | | Rm 9 | yellow Adhesion |
| B | | ↓ | + ↓ |
| 58A | | Rm 20/21 | Int Door (to class) windows Glaze |
| B | | + | ↓ Black |
| 59A | | Rm 21 | Int Door Caulk white |
| B | | Eagles Landing | + ↓ |
| 60A | | Corridor 20 | Ext door Grey |
| B | | 23/24 | ↓ + |
| 61A | | Ext window | Int Wind caulk side white |
| B | | | ↓ |
| 62A | | | Int window Glaze black |
| B | | | ↓ |
| 63A | | 1957 Building Rm 18 | 1x1 Ceiling Tile Class Closets |
| B | | ↓ 14 | + ↓ |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|----------------------|---|
| 67286411 | | 19 57 Building Rm 18 | 1x1 Ceily tile Glue ^{DK Brown} closets |
| B | | 14 | + + |
| 65A | | Kitchen | 2x4 Ceily tile |
| B | | + | + |
| 6611 | | Rm 18 | 2x4 Ceily tile warm hole |
| B | | 14 | + + |
| 67 | | Nurse | ↓ sm |
| 68 | | + | ↓ text |
| 69 | | Rm 18 | ↓ text |
| 70 | | 2 | ↓ |
| 71 | | (corridor 15) | ↓ |
| 72 | | + Cafe | ↓ |
| 73A | | | Tectum Ceily Deck |
| ↓ B | | | + |
| 74 | | Rm 18 | Sheet rock (above window) |
| 75 | | 14/16 | + (Door Fill In) |
| 76 | | Rm 18 | + |
| 77 | | Nurse | + |
| 78 | | under stage | + |
| 79 | | Rm 18 | + taping compound |
| 80 | | Nurse | + |
| 81 | | under stage | + |
| 82A | | Gym/koff | Folding wall Brown material |
| B | | + | + Glue / wall paper |
| 83A | | + | + |
| B | | | + |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|------------------------------|--------------------------------------|
| 67288411 | | 1957 Building | Orange Fine Stop Caulk |
| B | | | ↓ ↓ |
| 85A | | | Red ↓ |
| B | | | ↓ ↓ |
| 86A | | | Yellow ↓ |
| B | | | ↓ ↓ |
| 87A | | | Rm 18 slate blackboard |
| B | | | ↓ |
| 88A | | | ↓ Dark Glue |
| B | | | ↓ |
| 89A | | | Rm 18 Bull Board |
| B | | | (corridor closet) ↓ |
| 90A | | | Rm 18 Green bookshelf sheet material |
| B | | | ↓ |
| 91A | | | Rm 18 Adhesive |
| B | | | ↓ ↓ |
| 92A | | | Rm 19 Transite Radiator Panel |
| B | | ↓ ↓ | |
| 93 | | Rm 15 Gray sint Undercoating | |
| 94A | | CMU Block | |
| B | | ↓ | |
| 95A | | ↓ Mortar | |
| B | | ↓ | |
| 96 A | | Brick Grout | |
| B | | ↓ | |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|-----------------------------|---|
| 072897A | | Boiler Room - 1957 Building | Burnham Boiler Black Rib material |
| B | | | ↓ |
| 98A | | | H.B. Smith Red Boiler sealant |
| B | | | ↓ |
| 99A | | | H.B. Smith White Rope Rib Rosings |
| B | | | ↓ |
| 100A | | | Boiler Exhaust Duct white Insulation |
| B | | | ↓ |
| C | | | ↓ |
| 101A | | | Grass Insulation |
| B | | | ↓ |
| C | | | ↓ |
| 102A | | Biggs/Hubb table | Pipe Fitting Insulation Fiberglass Pipe |
| B | | | ↓ |
| C | | | ↓ |
| 103A | | Nurse | Black Pipe Ins. |
| B | | | ↓ |
| C | | | ↓ |
| 104A | | | Pipe Insulation (Black) |
| B | | | ↓ |
| C | | | ↓ |
| 105A | | Pipe Tunnel | Pipe Insulation Black material on Foil |
| B | | | ↓ |
| C | | | ↓ |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|--------------------------------|-------------------------------|
| 0728106A | | 1957 Building Boiler Rm Tunnel | pipe End Cap Insulation CP14 |
| B | | | |
| C | | | |
| 107A | | | Old Pipe Cloth Wrap |
| B | | | |
| C | | | |
| 108 | | tunnel | white material on Stone floor |
| 109 | | | |
| 110A | | kitchen | ceramic floor mud Bed |
| B | | | |
| 111A | | | Grout |
| B | | | |
| 112A | | | Toilet Rms Ceramic Wall Grout |
| B | | | |
| 113A | | | Mud Bed |
| B | | | |
| 114A | | | wall adhesive |
| B | | | |
| 115A | | Cust Closed | Ceramic Floor Grout |
| B | | | |
| 116A | | | Mud Bed |
| B | | Toilet Rm | |
| 117A | | | Paper under ceramic |
| B | | | |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|----------------------|------------------------------------|
| 0728118A | | 1957 Building Room 2 | Yellow Carpet Adhesive |
| ↓ B | | 24 | ↓ |
| ↓ C | | stage side Entrance | ↓ |
| ↓ 119 | | ↓ | Black Mastic mixed in 118c |
| 126A | | Gym/Cafe | Thick Roll Flooring |
| ↓ B | | ↓ | + |
| 121A | | ↓ | yellow mastic |
| ↓ B | | ↓ | + |
| ↓ 122A | | Stage | Sheet Flooring |
| ↓ B | | ↓ | ↓ |
| ↓ 123A | | Kitchen Storage | 12x12 Gray Floor Tile |
| ↓ B | | ↓ | + |
| ↓ 124A | | ↓ | yellow mastic |
| ↓ B | | ↓ | ↓ |
| ↓ 125A | | Rm 16 | 12x12 Floor Tile |
| ↓ B | | 2 | ↓ |
| ↓ C | | nurse office | ↓ |
| 126A | | Rm 16 | yellow mastic |
| ↓ B | | 2 | ↓ |
| 127A | | 16 | Black Mastic |
| ↓ B | | 2 | ↓ |
| ↓ C | | 17 | ↓ |
| ↓ D | | nurse office | ↓ |
| 128A | | Gym/Cafe | Black Material under roll flooring |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|--|--|
| 0728/29A | | 1957 Building Corridor (15) | 12x12 Floor tile |
| B | | ↓ (15) | ↓ |
| 130A | | ↓ 15 | Brown Mastix |
| B | | ↓ 15 | ↓ |
| 131A | | ↓ 15 | Black mastix |
| B | | ↓ 15 | ↓ |
| 132A | | Gym | low base Bl |
| 133 | | nurse office | Pink |
| 134 | | Rm 2 | Tan/Brown |
| 135A | | Gym | Adhesive Yellow |
| B | | nurse office | ↓ |
| C | | Rm 2 | ↓ |
| 136A | | toilet Rm's | "newer" Door Caulk - Interior white |
| B | | ↓ | ↓ |
| 137A | | ↓ | tan |
| B | | ↓ | ↓ |
| 138A | | Rm 14 | Interior wind Glaze Black Rubbery |
| B | | cust office Ext Door | ↓ |
| 139A | | Gym/kitchen | Door window Glaze Black |
| B | | nurse office | ↓ |
| 140A | | Rm 15 | Int ^{Ext wind} windows caulk (old) Gray |
| B | | 16 | ↓ |
| 141A | | Probably same hold as DWB there Rm 2 closed | Int Wind. wall Old white thin wind Glaze |
| B | | ↓ | ↓ |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|-------------------------|---------------------------------|
| B728142A | | 1957 Building kitchen | In + (Exit Door) OLD Door Caulk |
| B | | | + |
| 143A | | | (Exit Door) ↓ |
| B | | | (Exit Door) ↓ |
| 144 | | 1965 Addition Classroom | ceiling tile |
| 145 | | | main office ↓ |
| 146 | | | + |
| 147 | | | stuffed toilet ↓ |
| 148A | | Corridor | 1x1 wall tile |
| B | | | + |
| 149A | | | ↓ brown blue Daubs |
| B | | | ↓ |
| 150A | | | tector Roof Decking |
| B | | | ↓ |
| 151A | | | Sheetrock |
| B | | | + |
| 152A | | | ↓ taping compound ↓ |
| B | | | ↓ |
| 153A | | offices | Roof Deck Caulk Dr Brown |
| B | | | + |
| 154A | | Rm 6 | Blackboard |
| B | | | ↓ |
| 155A | | | Bull Boards Green Board |
| B | | | ↓ |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|----------------------|--|
| 6728156A | | 1965 Addition Room 7 | Wall Board Above Black board |
| B | | | + |
| 157A | | | Dark Brown Adhesives |
| B | | | ↓ |
| 158A | | Main office Area | Gray Sink undercoating |
| B | | Rm 3 | ↓ |
| 159A | | Rm 6 | Black Sink Undercoating |
| B | | ↓ 7 | ↓ |
| 160A | | Corridor | Fiberglass pipe Black material in foil |
| B | | | ↓ |
| C | | | ↓ |
| 161A | | Tunnels | Suspect TSI Debris in soil |
| B | | | ↓ |
| C | | | ↓ |
| 162A | | Staff Toilet | Ceramic wall tile Dark Gray Mud set Adhesives |
| B | | | ↓ |
| 163A | | | Light Gray Mud Bed |
| B | | | ↓ |
| 164A | | Staff Rm 6 | Ceramic Floor tile Grout |
| B | | Staff Lounge | ↓ |
| 165A | | Staff Rm 6 | Mud Bed |
| B | | | ↓ |

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| Sample # | HA # | Sample Location | Material Description |
|-----------------|------|---------------------------------------|---------------------------------|
| 072816CA | | 1965 Addition ^{Staff Lounge} | Ceramic Floor Gray Layer |
| B | | | + |
| 167A | | | Thick mud bed |
| B | | | update layer |
| 168A | | | White layer |
| B | | | + |
| 169A | | office | yellow carpet Adhesive |
| B | | Rm 4 | + |
| 170A | | Near office | Gray material / carpet adhesive |
| B | | Front office | |
| 171A | | office | 12x12 Floor Tile |
| B | | Corridor | Hand |
| 172A | | Rm 7 | + |
| D | | Speech/IT | Hand |
| 172A | | office | Gray Material |
| B | | Corridor | + |
| C | | Rm 7 | + |
| 173A | | office | Black Mastic |
| B | | Corridor | + |
| C | | Speech/IT | + |
| 174A | | office | Concrete Base |
| B | | Staff Lounge | + |
| 175A | | office | Adhesive |
| B | | Staff Lounge | + |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|----------------------------|--|
| 0728176A | | 1965 Addition Rm 6 | Interior old window caulk perimeter |
| B | | 7 | ↓ |
| 177A | | office | Door windows Glazing Black |
| B | | ↓ | Int window ↓ ↓ |
| 178A | | | Window sill caulk newer white |
| B | | | ↓ |
| 179A | | stuff canopy | Int Newer Door caulk white |
| B | | ↓ | ↓ ↓ |
| 180A | | Garage (RT side) Int | Sheetrock ceiling |
| B | | | ↓ |
| 181A | | | ↓ Taping compound ↓ |
| B | | | |
| 182A | | | Interior wall caulk |
| B | | | ↓ |
| 183A | | | Interior Door caulk |
| B | | | ↓ |
| 184A | | | Exterior vent caulk white |
| B | | | ↓ |
| 185A | | Between AT & Left Exterior | wall Expansion caulk |
| B | | ↓ | ↓ |
| 186A | | (RT SIDE) | Black material visible at Brick foundation |
| B | | ↓ | ↓ |
| 187A | | | visible above vent |
| B | | ↓ | ↓ |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|------------------|---|
| 0728188A | | Garage (RT SIDE) | Black material behind brick & Foam board |
| B | | ↓ | ↓ |
| 189A | | (left side) | Black ^{paper} material behind brick & Foundation |
| B | | ↓ | ↓ |
| 190A | | RT | ext Brick |
| B | | Left | + |
| 191A | | RT | ↓ Mortar |
| B | | Left | ↓ |
| 192A | | 1989 Exterior | new window caulk white |
| B | | ↓ | ↓ |
| 193A | | | Door Caulk Gray |
| B | | | ↓ |
| 194A | | | Wall Expansion ^{Gray} Caulk |
| B | | | ↓ |
| 195A | | | Brick |
| B | | | ↓ |
| 196A | | | ↓ Mortar |
| B | | | ↓ |
| 197A | | Exterior | Gym Soffit Caulk ^{white} _{beige} |
| B | | | ↓ |
| 198A | | | Drive IT wall Panel ^{white} _{in windows} ^{Layer} |
| B | | | ↓ |
| 199A | | | ↓ ^{Gray} _{Layer} |
| B | | | ↓ |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|-----------------|--|
| 200A | | Exterior | Newer Security Door Entrance Wall |
| B | | | Material Grab |
| 201A | | Portables | Window/Door/Wall Caulk White |
| B | | | |
| 202A | | 1950's | Exterior vent caulk (old) |
| B | | | |
| 203A | | kitchen | Exterior thin white window glazing (old) |
| B | | | |
| 204A | | | Window/Door/wall panel caulk (old) |
| B | | | |
| 205A | | Classroom | Window wall pane caulk (old) |
| B | | | |
| 206A | | Boiler Rm | Door caulk (old) |
| B | | | |
| 207A | | kitchen | Wall Expansion - caulk (old) ^{hard} |
| B | | last 1950/1960 | |
| 208 | | | softer caulk |
| 209A | | | Foundation Damp-proofing |
| B | | | |
| 210A | | 1960's | |
| B | | | |
| 211A | | | Tar on Copper Flash behind Brick at Foundation |
| B | | | |
| 212 | | | transite panel |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|-----------------|---|
| 0728213A | | Exterior 1960s | Black net Mats behind brick at Foundation |
| B | | | ↓ |
| 214A | | | Brick |
| B | | | + |
| 215A | | | ↓ Mortar |
| B | | | ↓ |
| 216A | | office | Window caulk (old) |
| B | | ↓ | ↓ |
| 217A | | class | Window wall caulk (old) |
| B | | ↓ | ↓ |
| C | | | ↓ |
| 218A | | 1950/60 | newer window glaze white |
| B | | | ↓ |
| 219A | | | newer window caulk white |
| B | | | ↓ |
| 220A | | | newer window glaze black |
| B | | | ↓ |
| 221A | | | newer window wall caulk white |
| B | | | ↓ |
| 222A | | | newer wall exp. caulk |
| B | | Front entry | ↓ |
| 223A | | | newer door caulk gray |
| B | | Front entry | |

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| Sample # | HA # | Sample Location | Material Description |
|----------|------|--------------------|----------------------------------|
| 0728224A | | Garage Roofs | Top Layer Shingles |
| B | | | + |
| 225A | | | Bottom Layer Shingles |
| B | | | + |
| 226A | | | Water + Ice Dam |
| B | | | + |
| 227A | | Portables Roof | Field Gray Paper on Form |
| B | | | Perimeter Flash |
| C | | | Penetration + |
| 228A | | 1989 Roofs Field | Fiberboard |
| B | | | + |
| 229A | | perimeter | Paper backing |
| B | | | + |
| 230A | | Field | Gray gypsum/soft concrete |
| B | | perimeter | + |
| 231A | | Field | white /gray gypsum/soft concrete |
| B | | perimeter | + |
| 232A | | 1960's Roofs Field | Fiber board |
| B | | | + |
| 233A | | | paper backing |
| B | | | + |
| 234A | | | white gypsum/soft concrete |
| B | | perimeter | + |

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1 + articles
2 R by
GSM

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| Sample # | HA # | Sample Location | Material Description | |
|----------|------|-----------------|------------------------------|---|
| 0722235A | | 1950's Roofs | Fiberboard | |
| B | | | ↓ | |
| 236A | | | paper backing under foam | |
| B | | | ↓ | |
| 237A | | | Field 2 ↓ 3 penetrated | white Gypsum/soft concrete |
| B | | | ↓ | |
| C | | | | |
| 238A | | | | newer Caulk in Copper Gray |
| B | | | | ↓ |
| 239 | | | | Caulk at Chimney/copper white |
| 240 | | | | ↓ on metal trim ^{belies} windows |
| 241 | | | ↓ on metal trim | |
| 242 | | | ↓ on window/rafe | |

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Appendix B
XRF Field Data Sheets

PRELIMINARY XRF
LBP TESTING DATA SHEET

146223601

Client Name: South East School

Job No.: ~~146223601~~

Action Level: 1.0 mg/cm²

Site Address: Mansfield CT

Date: _____

Page 1 of 1

| Survey ID# | Floor | Room ID/ Test Location | Component | Substrate | Exterior Paint Color | XRF Readings | | Comments/Notes |
|------------|-------|---------------------------|-------------------------|--------------|----------------------|-------------------------------|-----------------|----------------|
| | | | | | | Total Lead mg/cm ² | Results POS/NEG | |
| 1 | | Calibration | | | | 0.9 | | |
| 2 | | ↓ | | | | 0.9 | | |
| 3 | | ↓ | | | | 0.9 | | |
| 4 | | Room 18 | Wall | Glazed Block | Tan | 2.7 | ✓ | |
| 5 | | ↓ | Wall | CMU | White | 0.0 | | |
| 6 | | ↓ | Radiator Cover | Wood | White | 0.07 | | |
| 7 | | ↓ | Wall | Gypsum | White | 0.00 | | |
| 8 | | Room 18 | Door Trim | Wood | Stained brown | 0.07 | | |
| 9 | | ↓ | Door | Wood | ↓ Brown | 0.05 | | |
| 10 | | Corridor by Room 18 | Wall | Glazed Block | White | 2.4 | | |
| 11 | | Corridor by Room 18 | Lockers | Metal | Red | 0.00 | | |
| 12 | | Room 14 Closet | Vent Cover | Metal | Gray | 0.01 | | |
| 13 | | Room 14 | Wall | CMU | White | 0.00 | | |
| 14 | | Girl's Toilet Room | Door Trim | Metal | Red | 0.02 | | |
| 15 | | Girl's Toilet Room | Stalls | Fiberglass | Red | 0.00 | | |
| 16 | | Custodial Closet B | Wall | CMU | Blue | 0.00 | | |
| 17 | | Boy's Toilet Room | Door | Wood | Stained Brown | 0.00 | | |
| 18 | | Corridor by Room 2 | Wall | Brick | White | 0.00 | | |
| 19 | | Corridor by Room 2 | Door | Metal | Red | 0.11 | | |
| 20 | | Alcove by Room 1 | Radiator | Metal | Red | 0.90 | | |
| 21 | | Room 2 | Wall | CMU | White | 0.00 | | |
| 22 | | ↓ | Radiator Cover | Metal | Gray | 0.01 | | |
| 23 | | ↓ | Panels above windows | Wood | White | 0.00 | | |
| 24 | | ↓ | Door Trim | Metal | White | 0.02 | | |
| 25 | | Room 2 Telcom | Wall panel below window | Wood | White | 0.03 | | |

PRELIMINARY XRF
LBP TESTING DATA SHEET

Client Name: South East School

Job No.:

1410223601

Action Level: 1.0 mg/cm²

Site Address: Mansfield, CT

Date:

Page 2 of

| Survey ID# | Floor | Room ID/ Test Location | Component | Substrate | Exterior Paint Color | XRF Readings | | Comments/Notes |
|------------|-------|---------------------------|--------------------|--------------|----------------------------|----------------------------------|--------------------|----------------|
| | | | | | | Total Lead mg/cm ² | Results POS/NEG | |
| 26 | | Telephone Room | Wall | CMU | Gray | 0.00 | | |
| 27 | | ↓ | Door Trim | Metal | Gray | 0.04 | | |
| 28 | | Room 14 | Beam/Truss | Metal | Gray | 0.14 | | |
| 29 | | Near CafE Entry | Radiator | Metal | White | 0.00 | | |
| 30 | | Cafeteria | Wall | CMU | White | 0.06 | | |
| 31 | | ↓ | Wall | CMU | White | 0.00 | | |
| 32 | | ↓ | Door Trim | Metal | Red | 0.01 | | |
| 33 | | ↓ | Support Column | Metal | White | 0.27 | | |
| 34 | | ↓ | ↓ | ↓ | ↓ | 0.05 | | |
| 35 | | ↓ Stage | Hand Rail | Metal | Red | 0.00 | | |
| 36 | | ↓ | Door | ↓ | ↓ | 0.01 | | |
| 37 | | ↓ | Door Trim | ↓ | ↓ | 0.00 | | |
| 38 | | ↓ | Radiator | ↓ | White | 0.00 | | |
| 39 | | ↓ | Column | CMU | ↓ | 0.00 | | |
| 40 | | ↓ | Elevator Door | Metal | Beige | 0.00 | | |
| 41 | | Corridor at Main Office | Window Trim | ↓ | Red | 0.05 | | |
| 42 | | ↓ | Wall | Brick | White | 0.00 | | |
| 43 | | Custodian Office | Wall | CMU | White | 0.01 | | |
| 44 | | ↓ | Door Trim | Metal | Green | 0.3 | | |
| 45 | | ↓ | Door | ↓ | Blue | 0.5 | | |
| 46 | | ↓ | Radiator | Metal | Red | 0.00 | | |
| 47 | | ↓ | Beam/Truss | Metal | White | 0.3 | | |
| 48 | | ↓ | Coat Rack | Wood | Blue | 0.0 | | |
| 49 | | Corridor at Main Office | Beam | Metal | Gray | 0.00 | | |
| 50 | | Corridor at Room 14 | Base board 6" & 8" | Glazed block | White White | 2.9 2.1 | | |
| | | Room 14 | baseboard 8" | Glazed block | Green | 2.7 | | |

PRELIMINARY XRF
LBP TESTING DATA SHEET

Client Name: _____ Job No.: 140148702 Action Level: 1.0 mg/cm²
 Site Address: _____ Date: _____ Page ___ of ___

| Survey ID# | Floor | Room ID/ Test Location | Component | Substrate | Exterior Paint Color | XRF Readings | | Comments/Notes |
|------------|-------|-----------------------------------|----------------------|---------------------|----------------------|-------------------------------|-----------------|----------------|
| | | | | | | Total Lead mg/cm ² | Results POS/NEG | |
| 51 | | 1960's Corridor Room 3 | Beam | Metal | Red | 0.14 | | |
| 52 | | ↓ | Beam/Truss | Metal | White | 0.02 | | |
| 53 | | 1960's Corridor | Wall | Brick | ↓ | 0.00 | | |
| 54 | | Room 3 | Wall | CMU | White | 0.00 | | |
| 55 | | ↓ | Window Sill | Wood | ↓ | 0.00 | | |
| 56 | | ↓ | Trim | Wood | ↓ | 0.00 | | |
| 57 | | ↓ | Wall | Brick | Purple | 0.00 | | |
| 58 | | ↓ | ↓ | Gypsum | White | 0.00 | | |
| 59 | | ↓ | Door Trim | Metal | Red | 0.01 | | |
| 60 | | 1960's Corridor | Base Board | Concrete | White | 0.03 | | |
| 61 | | ↓ | Wall | Glazed Block | White | 1.7 | | |
| 62 | | ↓ | Lockers | Metal | Blue | 0.00 | | |
| 63 | | Room 7 | Wall | Glazed Block | Beige | 1.9 | | |
| 64 | | ↓ | Base Board | Glazed Block | Brown | 3.4 | | |
| 65 | | Room 7 | Wall | CMU | White | 0.00 | | |
| 66 | | ↓ | Panels above windows | Gypsum | White | 0.02 | | |
| 67 | | 1960's Corridor | Panels Above Lockers | Gypsum | White | 0.00 | | |
| 68 | | Speech Center | Wall | CMU | Light Green | 0.00 | | |
| 69 | | ↓ B3 Exit Custodian Exit | Window Trim | Wood | Blue | 4.1 | | |
| 70 | | ↓ | Window Sill | Wood | White | 0.13 | | |
| 71 | | ↓ | Corner Board | ↓ | ↓ | 4.8 | | |
| 72 | | ↓ | Wall Panel | Green | Transite | 0.00 | | |
| 73 | | ↓ | ↓ | White | ↓ | 0.4 | | |
| 74 | | ↓ | Support Column | White | Metal | 0.2 | | |
| 75 | | ↓ | Door | Red | Metal | 0.00 | | |

PRELIMINARY XRF
LBP TESTING DATA SHEET

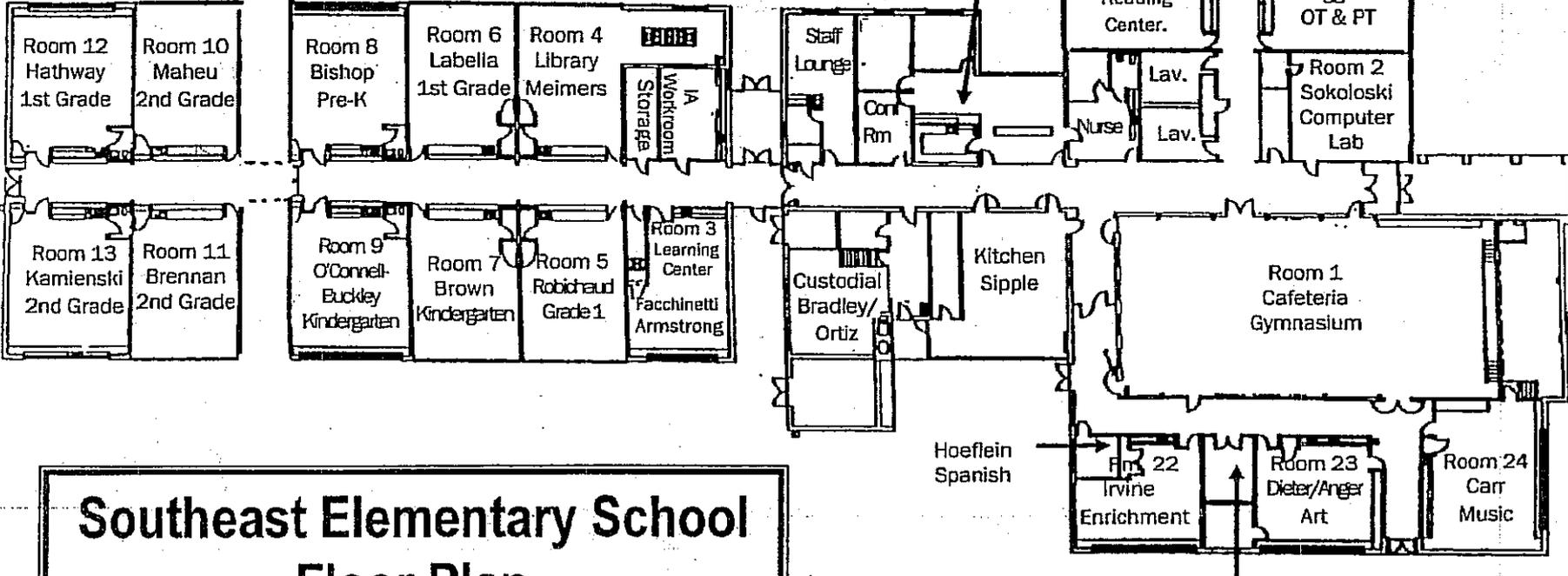
Client Name: _____ Job No.: 140148702 Action Level: 1.0 mg/cm²
 Site Address: _____ Date: _____ Page ___ of ___

| Survey ID# | Floor | Room ID/ Test Location | Component | Substrate | Exterior Paint Color | XRF Readings | | Comments/Notes |
|------------|-------|----------------------------|----------------------|-----------|----------------------------|----------------------------------|--------------------|----------------|
| | | | | | | Total Lead mg/cm ² | Results POS/NEG | |
| 76 | | B3 Exit | Door Trim | Metal | Red | 0.06 | | |
| 77 | | B5 Exit | Wall | Wood | White | 0.60 | | |
| 78 | | 1900's Exterior | Down Spout | Metal | | 9.00 | | |
| 79 | | | Panels below Windows | Transite | | 0.00 | | |
| 80 | | | Panel Trim | Wood | | 0.5 | | |
| 81 | | 1950's Exterior | Panels Below Windows | Transite | | 0.00 | | |
| 82 | | | Panel Trim | Wood | | 0.7 | | |
| 83 | | | Down spout | Metal | | 0.00 | | |
| 84 | | | Window Trim | | white | 0.00 | | |
| 85 | | 1900's Exterior | | | | 0.00 | | |
| 86 | | | Panel Trim | Wood | | 0.8 | | |
| 87 | | 1960's Exterior | Soffit Trim | Wood | white | 2.3 | | D2 Exit |
| 88 | | Calibration | | | | 1.0 | | |
| 89 | | | | | | 1.1 | | |
| 90 | | | | | | 0.9 | | |
| 91 | | | | | | | | |
| 92 | | | | | | | | |
| 93 | | | | | | | | |
| 94 | | | | | | | | |
| 95 | | | | | | | | |
| 96 | | | | | | | | |
| 97 | | | | | | | | |
| 98 | | | | | | | | |
| 99 | | | | | | | | |
| 100 | | | | | | | | |

Appendix C
Building Diagrams



1090



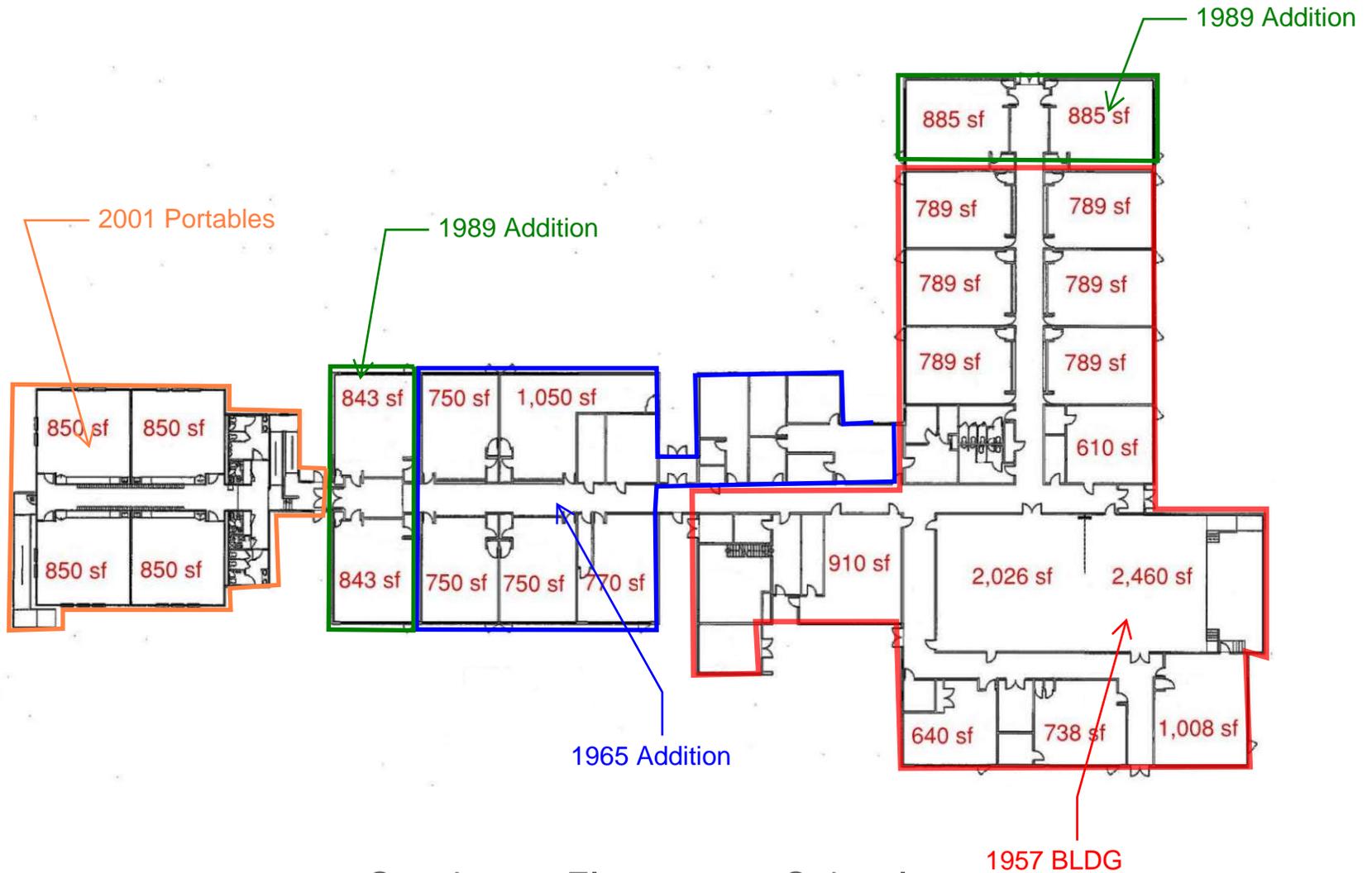
Office Staff
 Fisher-Doiron, Principal
 Liebman, Psychologist
 Daniels, Nurse
 Hazzard, Secretary
 Banfield, Secretary

Southeast Elementary School
Floor Plan
 Revised August 12, 2005

Hoeflein Spanish

Parker Physical Education

What We Observed | Southeast SF



Southeast Elementary School
38,400 (per State) GSF

ASBESTOS MANAGEMENT PLAN

BUILDING INFORMATION SHEET

DATE

9/13/2019

BUILDING NUMBER AND NAME

| | |
|---|-----------------------------|
| 3 | SOUTHEAST ELEMENTARY SCHOOL |
|---|-----------------------------|

BUILDING LOCATION/ADDRESS

134 Warrenville Road
Mansfield Center, CT 06250

NAME OF LOCAL EDUCATION AGENCY

MANSFIELD BOARD OF EDUCATION

| | | | |
|----------------------------------|---|------------------------------|--------|
| NUMBER OF FLOOR IN THIS BUILDING | 1 | ORIGINAL CONSTRUCTION DATE | 1957 |
| NUMBER OF BASEMENT LEVELS | 0 | ADDITIONAL/RENOVATION DATE 1 | 1965 |
| NUMBER OF ATTIC LEVELS | 0 | ADDITIONAL/RENOVATION DATE 2 | 1991 |
| NUMBER OF OTHER LEVELS | 1 | ESTIMATED GROSS SQUARE FEET | 32,000 |

BUILDING CONSTRUCTION TYPE

CEMENT BLOCK & BRICK

BUILDING USE

% FLOOR SPACE

| | |
|----------------|----|
| Instructional | 68 |
| Recreational | 17 |
| Office/support | 10 |
| Custodial | 5 |

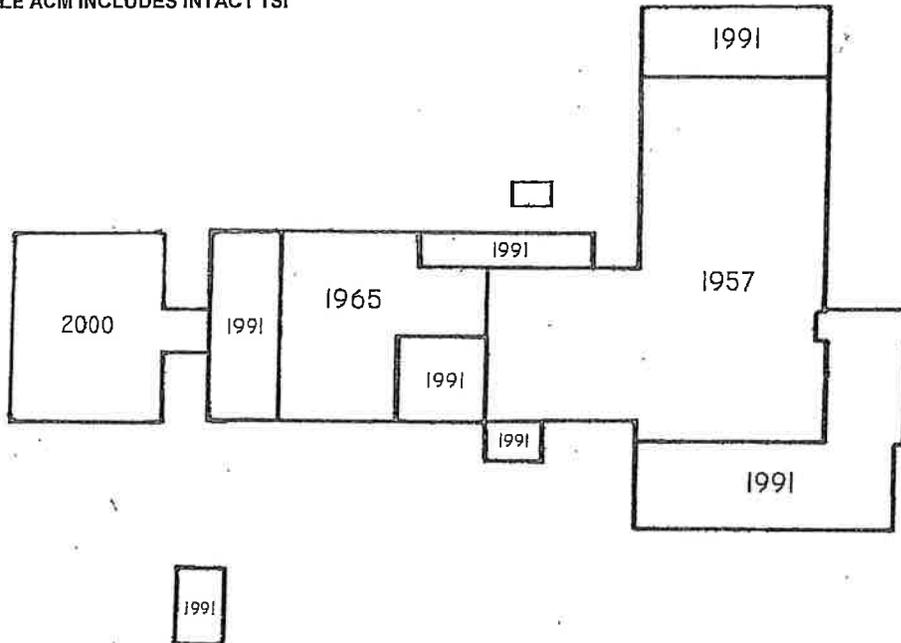
FRIABLE
ACM
PRESENT

NO

NON-FRIABLE
ACM
PRESENT

YES

FRIABLE ACM INCLUDES INTACT TSI



Appendix D

Langan Certifications and Accreditations

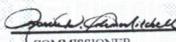
WALLET CARD

**STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH**

NAME
MATTHEW A. MYERS

| | | |
|------------------------------------|----------------------------------|------------------------------------|
| VALIDATION NO. 03-811279 | CERTIFICATE NO. 000041 | CURRENT THROUGH 04/30/21 |
|------------------------------------|----------------------------------|------------------------------------|

PROFESSION
ASBESTOS CONSULTANT-INSP/MGMT PLANNER

SIGNATURE _____  COMMISSIONER

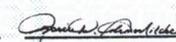
WALLET CARD

**STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH**

NAME
MATTHEW A. MYERS

| | | |
|------------------------------------|----------------------------------|------------------------------------|
| VALIDATION NO. 03-811281 | CERTIFICATE NO. 000058 | CURRENT THROUGH 04/30/21 |
|------------------------------------|----------------------------------|------------------------------------|

PROFESSION
ASBESTOS CONSULTANT-PROJECT DESIGNER

SIGNATURE _____  COMMISSIONER

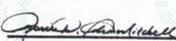
WALLET CARD

**STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH**

NAME
MATTHEW A. MYERS

| | | |
|------------------------------------|----------------------------------|------------------------------------|
| VALIDATION NO. 03-811280 | CERTIFICATE NO. 000077 | CURRENT THROUGH 04/30/21 |
|------------------------------------|----------------------------------|------------------------------------|

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE _____  COMMISSIONER

QuES&T

Quality Environmental Solutions & Technologies, Inc.
1376 Route 9, Wappingers Falls, NY 12590
Phone (845) 298-6031 Fax (845) 298-6251

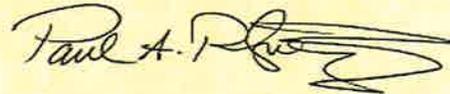
HEREBY CERTIFIES THAT

MATTHEW MYERS

HAS SUCCESSFULLY COMPLETED A TRAINING SEMINAR IN:

NYS/EPA INSPECTOR REFRESHER

MEETING THE REQUIREMENTS OF NYSDOH 10 NYCRR, PART 73 AND
TSCA TITLE II AND HAS BEEN AWARDED THIS CERTIFICATE BY:



PAUL A. RODRIGUEZ
TRAINING DIRECTOR

NOTE: Official record of successful completion is DOH 2832 Certificate of Completion of Asbestos Safety Training

NOTE: DOH 2832 - A \$20 fee shall be charged for replacement of Certificate of Completion DOH 2832

ON THIS DATE: 9/10/2019

CERTIFICATE NUMBER: 843919

EXPIRATION DATE: 9/10/2020

CERT#: L-600-1019

**CHEMSCOPE TRAINING DIVISION
LEAD INSPECTOR/RISK ASSESSOR REFRESHER
8-HOUR TRAINING CERTIFICATE**

Matthew Myers

10 Lewis Street, Milford, CT 06460

Has attended an 8-hour course on the subject discipline on
9/6/2019 and has passed a written examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course topics include all required topics of State of Connecticut DPH and EPA.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S. C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State or local requirements.

Examination Score: 98%

Exam Date: 9/6/2019

Expiration Date: 9/6/2020



Daniel Sullivan
Training Manager

Chem Scope, Inc.
15 Moulthrop Street
North Haven CT 06473
Phone: 203.865.5605
www.chem-scope.com



State of Connecticut

Lookup Detail View

Name

| |
|-------------------|
| Name |
| WILLIE L THOMPSON |

License Information

lookup

| License Type | License Number | Expiration Date | Granted Date | License Name | License Status | | Licensure Actions or Pending Charges |
|-------------------------------|----------------|-----------------|--------------|--------------------|----------------|---------|--------------------------------------|
| Asbestos Consultant-Inspector | 673 | 08/31/2020 | 03/27/2007 | Willie L. Thompson | ACTIVE | CURRENT | None |

Generated on: 10/11/2019 1:59:32 PM



State of Connecticut

Lookup Detail View

Name

Name

WILLIE L THOMPSON

License Information

lookup

| License Type | License Number | Expiration Date | Granted Date | License Name | License Status | | Licensure Actions or Pending Charges |
|----------------|----------------|-----------------|--------------|--------------------|----------------|---------|--------------------------------------|
| Lead Inspector | 2146 | 08/31/2020 | 03/23/2007 | Willie L. Thompson | ACTIVE | CURRENT | None |

Generated on: 10/11/2019 1:59:58 PM



ATC GROUP SERVICES LLC

*104 East 25th Street, New York, NY 10010
(212) 353-8280*

Willie Thompson III

*Has Successfully Completed the Accredited 4 Hour EPA-AHERA/ASHARA under 40 CFR 763 and the
New York State Department of Health Approved Course for*

Asbestos Inspector Refresher

On

January 21, 2020

**** Please note that the official record of successful completion is the DOH 2832 Certificate of Asbestos Safety Training. ****

This course meets the requirements of TSCA Title II

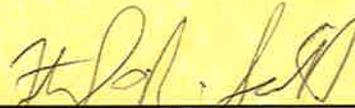
Certificate#: NYS -RHIIR-22358

Exam date: 01-21-20

Expiration Date: 01-21-21

Course Location: 21 West 38th Street, NY

Signed:



Fitzroy N. Scott, Director of Training

CERT#: L-500-278

**CHEMSCOPE TRAINING DIVISION
LEAD INSPECTOR REFRESHER
8-HOUR TRAINING CERTIFICATE**

Willie L. Thompson III

161 Easton Avenue, Waterbury CT

Has attended an 8-hour course on the subject discipline in English on
11/6/2019 and has passed a written examination.

The above individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes.

Course syllabus includes all required topics of State of Connecticut DPH and EPA.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S. C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State or local requirements.

Examination Score: 93%
Exam Date: 11/6/2019
Expiration Date: 11/6/2020



Daniel Sullivan
Training Manager

Chem Scope, Inc.
15 Moulthrop Street
North Haven CT 06473
Phone: 203.865.5605
www.chem-scope.com

Letter of Transmittal



Date: September 22, 2020
Project # 078-068N
Project Name: New Elementary School Town of Mansfield

To:
Mr. Randy Walikonis
c/o Tash N. Smith
Town of Mansfield
4South Eagleville Road
Mansfield, CT 06268

From:
Anthony Ganio
President
Connecticut Wells/Geothermal Services, Inc
49 Hard Hill Rd. North
Bethlehem, Ct. 06751

After careful review of the drawings and specifications issued in the RFP dated September 9, 2020, Connecticut Wells/Geothermal Services, Inc. is pleased to offer the following bid for State Project number 078-068N

Thank you,

Anthony Ganio
President
CT. Wells/Geothermal Services, Inc.
203-266-5272 Office
anthony@connecticutwells.com

Basic Firm Information

- a. Connecticut Wells/Geothermal Services, Inc.
- b. Est 1986
- c. Tax ID Number 06-1549622
- d. S-Corporation in the State of CT.
- e. 12 Years
- f. None
- g. None
- h. None
- i. Anthony Ganio, Thomas Mahan
- j. None
- k. References:

O&G Industries

112 Wall St, Torrington, CT 06790

Contact: George Givens georgegivens@ogind.com

Maxwell Mincher | Project Manager | Gilbane Building Company

M: 518-312-7099

Andy Schiff

Senior Project Manager

Dimeo Construction Company

700 State Street Suite 101 | New Haven, CT | 06511

tel. 203.777.5410



ADDITIONAL REMARKS SCHEDULE

| | | | |
|---|--------------------|--|---------------|
| AGENCY DIMATTEO INSURANCE BROKERS LLC | | NAMED INSURED CONNECTICUT WELLS/GEOTHERMAL SERVICES INC | |
| POLICY NUMBER WC 9080986 | | 49 HARD HILL RD N | |
| CARRIER SELECTIVE INS CO OF SOUTH CAROLINA | NAIC CODE 19259 | BETHLEHEM | CT 06751-1518 |
| | | EFFECTIVE DATE: 6/1/2020 | |

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

JOB #

JOB LOCATION

AGENCY CUSTOMER ID: _____
LOC #: _____



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

| | | | |
|--|--------------------|--|---------------|
| AGENCY DIMATTEO INSURANCE BROKERS LLC | | NAMED INSURED CONNECTICUT WELLS/GEOTHERMAL SERVICES INC | |
| POLICY NUMBER S 2160974 | | 49 HARD HILL RD N | |
| CARRIER SELECTIVE INS CO OF AMERICA | NAIC CODE 12572 | BETHLEHEM | CT 06751-1518 |
| | | EFFECTIVE DATE: 6/1/2020 | |

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

JOB #

JOB LOCATION

BID FORM

**WELL DRILLING AND TESTING
MANSFIELD ELEMENTARY SCHOOL
STATE PROJECT NO. 078-068N, PHASE 1 OF 3**

To: **Mansfield Public Schools**
Street Address
Mansfield, CT 06286

Attn: Mr. Randy Walikonis

Bid of: Connecticut Wells/Geothermal Services, Inc.
(Name of Company)

This proposal is made with the understanding that it will not be withdrawn for 90 days after the scheduled bid opening date.

Furthermore, the undersigned Bidder declares the Project Site, the Invitation to Bidders, the Specifications, Addenda, and the availability of material and labor has been carefully examined and agrees to furnish material and labor to conduct Well Drilling and Testing as specified and scheduled, including all supervision, material, labor, tools, apparatus and implements, freight, permits, removal of debris, and cartage. The undersigned Bidder also agrees to complete the Work in accordance with the Contract Documents within the time limit stated below.

The undersigned Bidder is submitting a copy of this Bid Form with the Category Lump Sum Bids indicated below, plus a copy of the Itemized Unit List with the Unit Prices and Extended Prices indicated therein. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

After review of all factors, terms and conditions, including price, the purchasing authority of Mansfield Public Schools reserves the right to reject any and all bids, or any part thereof, or waive defects in same, or accept any proposal deemed to be in the best interest of Mansfield Public Schools.

WELL DRILLING AND TESTING UNIT COST BID FORM

A. Geothermal Test Bores for Closed-Loop Ground Heat Exchanger:

| Item | Brief Description | Estimated Quantity and Measure | Bidders Unit Price | Extended Total |
|------|---|--------------------------------|--------------------|----------------|
| 1 | Mobilization and Site Restoration | 1 LS | \$3,600 | \$7,200 |
| 2 | Drilling two test bores, 500 feet deep each, with piping loop and grout, and capping. | 1 LS | \$9,292 | \$18,590 |
| 3 | Conducting a 48-hour thermal conductivity test on one of test wells. | 1 LS | \$4,800 | \$9,600 |
| 4 | Submit a written report with driller's log and conductivity test results. | 1 LS | \$125 | \$250 |
| 5 | Sub-Total for Items 1 – 4 | | \$17,820 | \$35,640 |
| 6 | Drill Wells Deeper Than 500 Feet | Per Foot | \$32.00 | \$32.00 |

B. Potable Water Supply Wells:

| Item | Brief Description | Estimated Quantity and Measure | Bidders Unit Price | Extended Total |
|------|--|--------------------------------|--------------------|----------------|
| 7 | Mobilization, Obtain Well Drilling Permits, and Site Restoration | 1 LS | \$3,850 | \$7,700 |
| 8 | Drill 6" borehole, 15 feet into competent bedrock | 30 LF | \$15 | \$450 |
| 9 | Install 6" diameter steel casing | 70 LF | \$16 | \$1,120 |
| 10 | Continue drilling 6" diameter well in bedrock | 730 LF | \$14 | \$10,220 |
| 11 | Conduct four-hour step pumping tests, Wells A + B | 1 LS | \$1,800 | \$3,600 |
| 12 | Conduct 18-hour safe yield pumping tests, incl. water sample collection and analysis | 1 LS | \$11,710 | \$23,420 |
| 13 | Sub-Total for Items 7 – 12 | | | |
| 14 | Drill deeper than 35 feet per well into bedrock | Per Foot | \$15 | |
| 15 | Provide Additional 6" Steel Casing | Per Foot | \$16 | |
| 16 | Drill Wells Deeper Than 400 Feet | Per Foot | \$14 | |
| 17 | Extend Safe Yield Pumping Tests greater than 18 hours for Wells A and B | Per Hour | \$450 | |

ADDENDUM RECEIPT

The undersigned Bidder acknowledges receipt of the following addenda:

Addendum No. ONE Date Sept 15, 2020

Addendum No. _____ Date _____

Addendum No. _____ Date _____

BIDDER QUALIFICATIONS

If the Bidder is a Corporation, fill out:

The Bidder is a corporation, organized under the laws of State of Connecticut
having its principal office at 49 Hard Hill Road North Bethlehem.
The Principal Officers of said Corporation, with their respective titles and addresses are
as follows:

Tom Mahan CEO
Anthony Ganio President
Nicole Murphy Vice President

If the Bidder is a Partnership or a Limited Liability Company, the following should be
filled out:

The members of the Partnership or LLC with their addresses are as follows:

EXPERIENCE AND ABILITY

The Bidder is required to state below: (1) What work of a similar character to that
included in the proposed contract he has done, and give references that will enable the
Owner to judge of his experience, ability to meet completion date, skill and business
standing; and (2) A brief description of the supervisory staff, and general methods
proposed for carrying on the work, indicating therein whether the staff are hired or
subcontracted by the Bidder.

See Attached

EXPERIENCE AND ABILITY

In 2015, Connecticut Wells/Geothermal Services completed a project at Yale University New Residential College. The project consisted of drilling and piping 48 wells at 500 feet each for a closed loop geothermal system. The general contractor on this project was Dimeo Construction located in New Haven, CT. The project manager on the project for Dimeo Construction was Andy Schiff. (See Basic Firm Information for contact information). Connecticut Wells/Geothermal Services completed this project on schedule and as promised in the contract agreement.

In 2018, Connecticut Wells/Geothermal Services completed a similar closed loop geothermal project at the Gunnery School in Washington, CT. The project consisted of 45 wells at 500 feet each. The general contractor on this project was O&G Industries located in Torrington, CT. The project manager for O&G Industries was George Givens. (See Basic Firm Information for contact information). Connecticut Wells/Geothermal Services completed this project on schedule and as promised in the contract agreement.

Also in 2018, Connecticut Wells/Geothermal Services completed a closed loop geothermal project at the Goshen Public Library in Goshen, NY. This project consisted of 14 wells at 500' each. The general contractor on this project was Gilbane Building Company located in Albany, NY. The project manager for Gilbane was Maxwell Mincher. (See Basic Firm Information for contact information). Connecticut Wells/Geothermal Services completed this project on schedule and as promised in the contract agreement.

Connecticut Wells/Geothermal Services drilled a test well at each of the aforementioned projects before the projects began, giving us experience in this area as well.

Connecticut Wells/Geothermal Services uses in-house staff to conduct the bidding, permitting, drilling, looping, grouting and piping on all geothermal projects. The owner, Thomas Mahan and our president, Anthony Ganio are licensed well drilling contractors with the State of Connecticut, with 70 years of experience between them. Our senior well driller, Duane Blische, is a licensed well driller with the State of Connecticut and has 15 years of well drilling experience. He is also an Accredited Installer with the International Ground Source Heat Pump Association.

It is our intention to subcontract the site restoration to CJT Development located in Middlebury, CT and the water quality testing to Hydrodynamics Lab located in New Milford, CT. Both subcontractors are licensed and will provide proof of insurance.

Should you have any questions regarding these projects or the experience of Connecticut Wells/Geothermal Services please feel free to contact Anthony Ganio at (203)266-5272 or anthony@connecticutwells.com.

FORMS

All sealed Bids must be submitted no later than 2:00pm prevailing time, on Sept 23, 2020 either in person or by registered mail or courier.

Completed Bid Forms and Itemized Summary Sheets must be submitted in duplicate.

DATE OF BID AND SIGNATURE OF BIDDER

Name of Bidder Connecticut Wells/Geothermal Services, Inc.

Signed

Title President

Mailing Address 49 Hard Hill Road North Bethlehem

State of (Connecticut)

County of (Litchfield) ss. ()

On this 22nd day of September 2020, ~~2018~~

Personally appeared before me

(* Anthony Ganio)

(Name of Person Signing)

(** President of Connecticut Wells/Geothermal Services, Inc

(Title)

(Name of Bidder)

signed of the foregoing bid and acknowledged the same to be his free act and deed ** (as such officer and the free act and deed of said corporation) before me.

Notary Public: *Marie Maypad*

**My Commission Expires
April 30, 2022**



* The Bid must be signed by the Bidder if the Bidder is an individual, by one of the partners, if a partnership, or by an authorized officer if a corporation. The person signing must state the capacity in which he signs at the place indicated.

** If the Bidder is a corporation, the blanks enclosed in parentheses in the acknowledgement should be filled in with the name of the corporation, corporate seal, and the title of the person signing. If the Bidder is an individual or partnership, the parentheses should be disregarded.

Mansfield Elementary
Well Drilling and Testing
Bid Results

| Well Drilling and Testing Bid Summary | | | ## |
|---------------------------------------|--|---------------------------|---|
| MANSFIELD ELEMENTARY | | | |
| COMPANY | | CT WELLS | Anthony Ganio Hard Hill Road North Bethlehem, CT 49 |
| | | Bidders Unit Price | Extended Total |
| TOTAL INITIAL FEE | | | |
| 1 | Mobilization and Site Restoration | \$ 3,600.00 | \$ 7,200.00 |
| 2 | Drilling 2 test bores, 500 feet | \$ 9,292.00 | \$ 18,590.00 |
| 3 | Conducting 48-hour thermal conductivity test | \$ 4,800.00 | \$ 9,600.00 |
| 4 | Written report with drillers log and test | \$ 125.00 | \$ 250.00 |
| 5 | Subtotal Items 1-4 | \$ 17,817.00 | \$ 35,640.00 |
| 6 | Drill Wells deeper than 500 feet | \$ 32.00 | \$ 32.00 |
| Potable Water supply Wells | | | |
| 7 | Mobilization, Permits, Site Restoration | \$ 3,850.00 | \$ 7,700.00 |
| 8 | Drill 6" borehole | \$ 15.00 | \$ 450.00 |
| 9 | Install 6" diameter well in bedrock | \$ 16.00 | \$ 1,120.00 |
| 10 | Cotninue drilling 6" diameter well in bedrock | \$ 14.00 | \$ 10,220.00 |
| 11 | Conduct 4 hour step pumping tests | \$ 1,800.00 | \$ 3,600.00 |
| 12 | Conduct 18 hour safety yield tests | \$ 11,710.00 | \$ 23,420.00 |
| 13 | Subtotal Items 7-12 | \$ 17,405.00 | \$ 46,510.00 |
| 14 | Drill deeper than 35 feet per well into bedrock | \$ 15.00 | Per foot |
| 15 | Provide additional 6" steel casing | \$ 16.00 | Per foot |
| 16 | Drill wells deeper than 400 feet | \$ 14.00 | Per foot |
| 17 | Extend safety yield pumping test greater than 18 hours | \$ 450.00 | Per hour |
| | TOTAL: | \$ 35,222.00 | \$ 82,150.00 |
| General Comments | | | |

COST ESTIMATE
Well Drilling and Testing for Mansfield Elementary School
Mansfield, CT

A. GEOTHERMAL TEST BORES

| Item No. | Description | Quantity | Unit Price, including Material & Installation | Extended Price | Notes |
|--|--|----------|---|------------------|-------|
| A1 | Mobilization and Site Restoration, Lump Sum | 1 | \$ 5,000 | \$ 5,000 | |
| A2 | Drilling 500-Foot Deep Test Bores, Feet | 1,000 | \$ 30 | \$ 30,000 | |
| A3 | Conducting 48-Hour Thermal Conductivity Tests, Lump Sum | 1 | \$ 3,000 | \$ 3,000 | |
| A4 | Submit Written Report With Driller's Log and Conductivity Test Results, Lump Sum | 1 | \$ 1,500 | \$ 1,500 | |
| A. Geothermal Test Bores Subtotal | | | | \$ 39,500 | |

B. POTABLE WATER SUPPLY WELLS

| Item No. | Description | Quantity | Unit Price, including Material & Installation | Extended Price | Notes |
|----------|--|----------|---|----------------|-------|
| B1 | Mobilization, Permit, Site Restoration, Lump Sum | 1 | \$ 5,000 | \$ 5,000 | |
| B2 | Drill Two 6" Boreholes, 15 feet into competent bedrock, Feet | 30 | \$ 100 | \$ 3,000 | |
| B3 | Install 6" Diameter Steel Casing, Feet | 70 | \$ 20 | \$ 1,400 | |
| B4 | Continue Drilling 6" Diameter Well in Bedrock, Feet | 730 | \$ 50 | \$ 36,500 | |
| B5 | Conduct Four-Hour Step Pumping Tests, Lump Sum | 1 | \$ 1,500 | \$ 1,500 | |
| B6 | Conduct Four-Hour Safe Yield Pumping Tests, Including Water Sample Collection and Analysis, Lump Sum | 1 | \$ 1,500 | \$ 1,500 | |

COST ESTIMATE
Well Drilling and Testing for Mansfield Elementary School
Mansfield, CT

| | | | | | |
|---|----|--|---|----------|------------------|
| | B7 | Water Quality and Yield Report, Lump Sum | 1 | \$ 1,500 | \$ 1,500 |
| B. Potable Water Supply Wells Subtotal | | | | | \$ 50,400 |

| | | |
|--|------------------------------------|-------------------|
| | SUBTOTAL COST A + B = | \$ 89,900 |
| | 15% Overhead & Profit = | \$ 13,500 |
| | GRAND TOTAL = | \$ 103,400 |

MEMO

To: John Carrington, Interim Town Manager (Applicant)
Ryszard Szczypek, TSKP (Agent)

CC: Jennifer Kaufman; Derek Dilaj; Adam Libros, Mike Nintean

From: Linda Painter, AICP, Director

Date: September 16, 2020

Subject: P1367 Mansfield Elementary School Special Permit
Preliminary Review Comments-Set #1
Plan Set Prepared by TSKP Studio, et.al. dated August 26, 2020

OVERVIEW

The following comments are based on staff review of plans dated August 26, 2020 for the new Mansfield Elementary School. These comments are organized and based on the Site Plan approval criteria identified in Article 5, Section A.5 and the special permit approval criteria identified in Article 5, Section B.5 of the Mansfield Zoning Regulations.

Please provide a revised plan set and response to comments by Wednesday, September 23, 2020 to allow staff time to review the plan revisions prior to the public hearing currently scheduled for September 30, 2020.

Major Items

While this memo identifies several needed revisions, the following items are called out due to their significance and the potential to impact the plans/public hearing timeframe:

1. **Intersection Improvements Wetlands License.** While the school project itself is not within 150 feet of wetlands, the intersection improvements appear to be within the upland review area. Please contact Jennifer Kaufman, Inland Wetlands Agent, to discuss the type of application required.
2. **Stratified Drift Aquifer.** The proposed site is located within a stratified drift aquifer area as well as the public water supply watershed for Windham Water Works. Please submit information required pursuant to Article 6, Section B.4.m related to potential impacts on groundwater systems.
3. **Rear Yard Setback Encroachment.** The vehicle access area for the storage building/compactor/recycling area encroaches into the rear yard setback. Please remove this encroachment and provide documentation that vehicle turning movements are accommodated.

Disclaimers

1. These comments are provided as a courtesy. It is the applicant's responsibility to ensure that the submitted plans comply with current regulations. In any revision process, it is possible that addressing one comment will have impacts on compliance with another

regulation. The applicant is responsible for reviewing revised plans prior to submittal to ensure that any domino effects from one correction are caught and addressed prior to resubmittal.

2. While staff has attempted to identify every potential issue to be addressed, we may miss something or identify additional comments upon review of the revised plans.

COMPLETENESS OF APPLICATION

Relevant Approval Criterion - Article 5, Section A.5.a

All required or necessary information has been provided by the applicant so that compliance with applicable regulations can be determined.

Recommendation: Where requested in these comments, please provide additional information.

COMPLIANCE WITH REGULATIONS

Relevant Approval Criterion - Article 5, Section A.5.b

The proposal complies with all other applicable sections of the Zoning Regulations including but not limited to: parking and loading; landscaping and buffering; aquifer areas; prohibited uses, performance standards; architectural and design standards; height and area requirements; signs, bonding, filling, grading, excavation, removal, processing of soil, stone, sand and gravel, peat moss, and other similar materials regulations and any special provisions applying to the subject use.

The applicant has submitted Site and Architectural Plans along with the required Site Plan checklist.

Comment: See the attached table that identifies revisions that are needed to comply with specific requirements of the Zoning Regulations.

Recommendation: Revise plans and associated documentation as described in the attached table and resubmit by September 23, 2020.

OTHER STATE AND LOCAL REQUIREMENTS

Relevant Approval Criterion - Article 5, Section A.5.c

The application has considered all other applicable local, state and federal requirements, including subdivision approval and necessary permits from the Mansfield Inland Wetlands Agency, the Mansfield Water Pollution Control Authority, the Mansfield Fire Marshal, the Mansfield Historic District Commission and the state Departments of Health, Environmental Protection and Transportation. For applications involving concurrent Inland Wetland Agency (IWA) license applications, no decision shall be made until the IWA has submitted a report with its final decision.

Comment: The following summary identifies the need for other state and local permits based on the information submitted.

Recommendation: Unless otherwise noted, no Zoning Permit shall be issued for the development until all of the required state and local permits have been obtained pursuant to Article 11, Section 3.c.

Subdivision Approval

No subdivision approval is needed for this application.

Inland Wetlands License

While there are no wetlands within 150 feet of the proposed school, the Archaeological Report indicates the presence of extensive wetlands near the proposed intersection improvements.

Recommendation: Review intersection improvements with Inland Wetlands Agent and submit application for Inland Wetlands License if needed.

Mansfield Water Pollution Control Authority

No WPCA action is needed for this application.

Mansfield Fire Marshal

The Fire Marshal will provide written comments under separate cover. Preliminary comments were provided at the 9/10/2020 meeting of staff, Mehmet Sahin, and Mike Cegan.

Mansfield Historic District Commission

Comment: The proposed improvements to the intersection of Routes 195 and 89 are located within the Mansfield Historic District. Pursuant to Sec. 7-147c(j)(7), C.G.S., the HDC may "render advice on sidewalk construction and repair, tree planting, street improvements, and the erection or alteration of public buildings not otherwise under its control where they affect historic districts." Accordingly, the proposed improvements have been referred to the HDC and will be discussed at their regular meeting on 9/23/2020 at 5:00 p.m.

Recommendation: We recommend the project team attend the HDC meeting to present the proposed improvements and answer any questions.

Connecticut Department of Public Health (DPH)

- The applicant has presented documentation from CTDPH of Well Site Suitability Certification.
- Approval of the proposed septic system is required. Due to the essential function of this system, comments from DPH indicating that the system is approvable with minor modifications will be needed prior to the close of the public hearing.

Connecticut Department of Energy and Environmental Protection (CTDEEP)

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities is required.

Connecticut Department of Transportation (CTDOT)

Encroachment and driveway permits will be needed from CTDOT prior to construction of the school. Additionally, CTDOT approval will be needed for the proposed intersection improvements (Routes 89/195).

INFRASTRUCTURE, PUBLIC SAFETY AND PROTECTION OF NATURAL AND CULTURAL RESOURCES

Relevant Approval Criterion - Article 5, Section A.5.d

The proposal has made safe and suitable provisions for water supply, waste disposal, flood control, fire and police protection, the protection of the natural environment, including air quality and surface and groundwater quality and the protection of existing aquifers and existing and potential public water supplies, cemeteries, historic structures and other features of historic value.

For all properties within one of the ten (10) historic village areas identified in Article X, Section J, the special historic village area review criteria contained in Article X, Section J.2 also shall be complied with

Potable Water

See Connecticut Department of Public Health.

Wastewater

See Connecticut Department of Public Health

Solid Waste/Recycling

Comments: Need details on the trash compactor area - no mention of recycle roll-off. There is detailed drawing of trash and recycle containers – not sure where these containers are being placed. No identified location for on-site full scale composting. Looks like there is a location for a smaller system by the learning garden. For on-site food scrap composting, need a space for storing wood chips and cured compost as well as a 3 compartment compost bin. (Demonstration project application has been submitted to DEEP to move food scraps off-site and compost at the Mansfield transfer station, but we don't have any assurance of approval of the application and when it could be approved.)

Recommendations: Provide additional details on trash and recycling, including size and specifications for waste/recycling compactor(s); locations of trash and recycling receptacles; and address comments related to composting.

Flood Control

Based on the mapping provided, the portion of the property to be redeveloped The subject property is not located within a flood hazard area.

Fire and Police Protection

See comments under Mansfield Fire Marshal. Staff also plans on reviewing the project with the Resident State Trooper and will forward any additional comments received.

Protection of Natural Resources

Comment: The property is within a stratified drift aquifer area and the public drinking water watershed for Windham Water Works. The applicant will need to demonstrate that the project will not have any negative impacts on groundwater. See Article 6, Section B.4.m for specific requirements.

Recommendation: Revise plans and submit documentation needed to address the requirements and concerns raised in Article 6, Section B.4.m related to potential aquifer impacts.

Historic Structures and Features

Phase 1 archaeological report submitted with application. No historic artifacts or feature context were recorded during this evaluation; accordingly no further archaeological conservation efforts are recommended. The report did note that should the intersection improvement plans change to impact stone walls lining historic properties or subsurface impacts beyond five feet from existing road edge, further archeological evaluation may be required.

VEHICULAR AND PEDESTRIAN ACCESS

Relevant Approval Criterion - Article 5, Section A.5.e

Vehicular and pedestrian access to the property and egress from the property and internal

vehicular and pedestrian traffic patterns are safe and suitable and have been designed to maximize safety and avoid hazards and congestion. Adequate provisions have been made to address accessibility problems of handicapped individuals. All curb cuts shall have adequate sightlines and adjacent streets shall have adequate capacity to safely accommodate the traffic flows associated with the proposed use(s). As deemed necessary, offsite road and drainage improvements may be required by the Commission;

Sidewalks, bikeways, trails and/or other improvements designed to encourage and enhance safe pedestrian and bicycle use shall be required, unless specifically waived by a three-quarter (3/4) vote of the entire Commission (7 votes), for all sites within or proximate to Plan of Conservation and Development designated "Planned Development Areas"; proximate to schools, playgrounds, parks and other public facilities; or proximate to existing or planned walkway, bicycle or trail routes. In evaluating any waiver request, the Commission shall consider the size and the location of the proposed development, its relationship to existing or planned development, school sites, playground areas and other public areas and the location and nature of existing or planned sidewalk, bikeway or trail improvements.

Safe Vehicular and Pedestrian Access

The proposed design separates passenger vehicle traffic from bus traffic as recommended by the State.

Comment: One area of concern is the parental drop-off zone, which has no vertical curb separation from the walkway.

Recommendation: Revise drop-off zone to include either vertical curb or bollards to protect pedestrians from vehicular traffic while retaining accessibility for persons with disabilities.

Accessibility for Persons with Disabilities

Comment: Plan includes multiple egress points that lead to the parking lot. All egress pathways need to be adequately lit. As noted above, parent drop-off zone needs to be modified to protect pedestrians. Plan proposes one space in excess of minimum number of accessible spaces. Given potential for community use of the building, additional accessible spaces should be considered.

Recommendation: Revise plans to include lighting and revise plans as noted in parental drop-off area.

Roadway Capacity and Anticipated Impacts

The applicant has provided a traffic study prepared by Milone and MacBroom dated August 29, 2019 and updated through June 24, 2020. The study is based on an estimated school capacity of 600 students. While traffic counts were conducted after UConn was out of session in 2019, the adjustments use closely align with the peak hour numbers identified in the traffic study for the new apartments on North Frontage Road. The study reviews different alternatives for improvements to the Route 89/195 intersection to address existing safety concerns as well as potential impacts of increased bus and parent traffic to the school property. Key recommendations include:

- Removal of a large tree that impacts site visibility
- Enhanced "School Zone" signage to slow speeds along the school property frontage
- Widening bypass and minor lane restriping on Route 195
- Removal of westbound median on Route 89 to create a 2-lane approach

- Addition of flared right turn on eastbound Browns Road approach
- Retiming of signalized intersection to optimize traffic operations.
- Revising the main driveway to include dedicated right-turn and left-turn egress.
- Considering the addition of more parking.
- Staggering arrival and dismissal times by grades and encouraging usage of bus service to reduce traffic demands.

Comment: The plans do not appear to include the last three bullets contained in the traffic study recommendations.

Recommendation: Please address discrepancies between plans and traffic study recommendations.

Sidewalks, Bikeways and Trails

The proposed site plan includes a walkway extension for the portion of the site that is being redeveloped. The proposed walkway does not extend for the length of the property. No bicycle parking is proposed.

Comment. A waiver to the requirement that the walkway be extended for the length of the property will be needed. The plans should be revised to include bicycle parking, as improving the ability of children and staff to walk and bike to school was the genesis of the Safe Routes to School sidewalk recently constructed.

Recommendations. Applicant to revise plans to include bicycle parking. Staff to present waiver request for extension of walkway/bikeway to the Commission as a separate action.

OFF-STREET PARKING AND LOADING, GRADING AND DRAINAGE

Relevant Approval Criterion - Article 5, Section A.5.f

Off-street parking and loading, storm drainage improvements and grading plans are adequate, having been designed to promote vehicular and pedestrian safety and to prevent flooding, storm drainage and sediment and erosion problems. All required easements have been obtained by the applicant.

Off-Street Parking and Loading

Parking greatly exceeds the overall number of spaces required pursuant to the calculations provided.

Recommendations: See comments on parent drop-off zone.

Grading

Comment: Plans need to identify total volume of materials being brought to, removed from, and relocated on-site. See Article 10, Section H for additional information.

Recommendation: Revise plans to identify volumes of earth materials and any applicable requirements of Article 10, Section H.

Drainage/Stormwater Management

See comments provided by Derek Dilaj, Assistant Town Engineer.

MITIGATION OF POTENTIAL NUISANCES

Relevant Approval Criterion - Article 5, Section A.5.g

The proposal has adequately considered all potential nuisances such as noise and outdoor lighting. Except where specifically authorized by these Regulations, all lighting shall be the minimum necessary to address safety and security needs taking into account manufacturer's installation charts and spacing recommendations for the proposed lighting. All lighting fixtures shall be designed to prevent undesirable illumination or glare above the site or beyond the site's property lines. All lighting fixtures shall be shielded and aimed downward unless it can be demonstrated that alternative designs will not result in spill light (undesirable light that falls outside the area of intended illumination).

Noise

As the site is currently developed with an elementary school, no additional noise impacts are anticipated.

Outdoor Lighting

Comment. Lighting plan does not include adequate lighting for required building egress pathways. Many of the proposed light fixtures are 4,000 Kelvin, which is higher on the blue-light spectrum. Given the significant natural resources surrounding the site, LED lighting should not exceed 3,000 Kelvin. No details provided on proposed light fixtures other than table of specifications.

Recommendation. Revise lighting plan to provide adequate lighting for all required building egress points and associated pathways to the public way/parking lot. Revise light fixture specifications to cap at 3,000 Kelvin and provide documentation that light fixtures are directed downward to protect dark skies. Provide details on proposed fixture types.

ENERGY CONSERVATION

Relevant Approval Criterion - Article 5, Section A.5.h

Passive solar and energy conservation techniques have been considered in the design of structures, structure orientation, street and lot layout, placement of vegetation, use of natural and manmade topographical features and protection of solar access within a development.

Comment. Proposed building is net-zero and includes extensive rooftop solar installation.

CONSTRUCTION TRAFFIC

Relevant Approval Criterion - Article 5, Section A.5.i

The proposal has adequately considered construction traffic and potential onsite and offsite vehicular and pedestrian safety problems, potential neighborhood impact problems and potential road and property damage that could occur due to the nature and timing of proposed construction activity.

Comment. Construction traffic will use the existing driveway to the rear of the ballfields to minimize impact on existing school operations and pedestrian safety.

Recommendation. Any damage to the existing driveway shall be repaired.

UNDERGROUND UTILITIES

Relevant Approval Criterion - Article 5, Section A.5.j

Unless specifically waived by the Commission due to site and environmental constraints or adverse impacts to stone walls or other historic features, existing significant trees or other

natural or manmade features, all new wired utility lines (telephone, electric, cable, etc.) shall be installed underground within suitable conduits. For significant land use projects, the Commission also may require existing overhead utility lines to be replaced with underground lines.

Comment: The existing school is served by overhead wires. The proposed plan revises the location of the overhead service connection from the utility lines located on the opposite side of Warrentville Road. The new utility pole on the site will provide the transition between overhead and underground service that will feed the school and concession stand.

ARCHITECTURAL DESIGN STANDARDS

Relevant Approval Criterion - Article 5, Section A.5.k

The basic design of the proposed uses, buildings or development; the relationship between the buildings and the land; the relationships between uses and between buildings or structures; and the overall physical appearance of the proposed use, building or development; comply with all applicable architectural and design standards of Article X, Section R, are in general harmony with the character of the surrounding neighborhood and will not serve to blight or detract from the value of abutting residences or other property.

Recommendations. See specific comments and recommendations in attached table.

SPECIAL PERMIT APPROVAL CRITERIA

Article 5, Section B.5

In addition to finding that all of the above listed site plan approval criteria have been met, the Commission must also find that the proposal will not detrimentally affect the public's health, welfare and safety and that the following approval criteria have been met. These findings are ultimately the determination of the Commission; however, staff has attempted to identify any potential concerns below.

Plan of Conservation and Development

That the proposed use is compatible with the Town's Plan of Conservation and Development and Article I of these regulations (Intent & Purpose).

Comment. The project site is designated Rural Residential/Agriculture/Forestry on the future land use map. This future land use designation identifies schools as a permitted use type and also recommends that non-residential structures be designed to complement the surrounding rural landscape.

The proposed project also addresses other goals and strategies identified in the Plan, including:

Goal 5.2-Mansfield is a life-long learning community and continues to provide high-quality public education for children and youth

Goal 9.3-Mansfield is working toward carbon neutrality and reducing reliance on the grid by conserving energy and increasing use of renewable resources.

Location and Intensity of Use

That the location and size of the proposed use and the nature and intensity of use in relation to the size of the lot will be in harmony with the orderly development of the Town and compatible with other existing uses.

Comment. The site is currently developed with Southeast Elementary School and baseball fields operated by the Department of Parks and Recreation.

Aesthetic Quality of the Proposal

That proper consideration has been given to the aesthetic quality of the proposal, including architectural design, landscaping and proper use of the site's natural features. The kind, size, location and height of structures, and the nature and extent of site work, and the nature and intensity of the use, shall not hinder or discourage the use of neighboring properties or diminish the value thereof. All applicable standards contained in Article X, Section R shall be incorporated into the plans.



Site Plan Review Comments

OVERVIEW

All Article, Section, and Page Numbers refer to the [June 15, 2020 Zoning Regulations of the Town of Mansfield](#). Excerpts of applicable regulations are provided in the green rows in *italics*. Staff comments relevant to that regulation are in the white rows beneath with bullets.

| ARTICLE NUMBER | SECTION NUMBER | PAGE NUMBER | REGULATION/COMMENT |
|----------------|----------------|-------------|--|
| 5 | A.3.c | 5.2 | Notification of Abutting Property Owners: The applicant shall be responsible for notifying all property owners abutting the site of a proposed use or activity requiring site plan approval, including property owners across the street from a subject site (as measured at right angles to straight street lines and radial to curved street lines). Said notification, which shall be sent by Certified Mail, within seven (7) days of the Commission's receipt of the application, shall include the applicant's Statement of Use and mapping that depicts areas of proposed activity. The notice also shall reference the fact that the complete application is available for review in the Mansfield Planning Office. Notification forms available in the Mansfield Planning Office shall be utilized for notifying abutting property owners. |
| | | | <i>Copies of notice, attachments and proof of mailing shall be submitted prior to the opening of the public hearing.</i> |
| 5 | A.3.d | 5.2 | Site Plan Requirements |
| | | | <i>Surveys (both site and intersection improvements) need to be signed and sealed by certified soil scientist</i> |
| 5 | A.3.e | 5.4 | Sanitation Report: The application shall submit a written sanitation report, with information on site characteristics and the proposed sanitary systems, including water supply and waste disposal. As necessary said report shall be prepared by the applicant's registered professional engineer or registered sanitarian. The report shall demonstrate that the subject sanitary systems will comply with state and local Health Department requirements and all other applicable regulations including the Town's Sand and Gravel Regulations. Where a separate permit to fill a site is necessary, said permit shall be obtained and the fill shall be placed prior to the submission of a site plan application for the subject use or development project. Necessary onsite testing must be coordinated with the Town Health Officer. |
| | | | <i>Please confirm that the required information is provided in the plan set and provide a brief narrative describing proposed changes to the septic system.</i> |
| 5 | A.3.g | 5.4 | Other information: Dependent on the nature of the proposal, the Commission shall have the right to require additional detailed information if it finds the information is necessary to review the application and determine compliance with applicable regulations and performance standards. Such information may include but shall not be limited to: traffic impact analysis, including specific information on how construction traffic will be regulated, routed and monitored; aquifer, watershed and flooding data; drainage calculations and documentation of necessary drainage rights or easements; environmental and neighborhood impact analysis; erosion and sedimentation control plans, future plans for adjacent land under the control of the subject |

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| | | | applicant or owner; information on homeowner or property-owner associations; maintenance provisions; estimates of site improvements costs, and bonding agreements. |
| | | | <i>See comments in staff memo with regard to traffic statement.</i> |
| 6 | B.4.m | 6.4 | <p>m. Aquifer Areas - To prevent or minimize detrimental effects on the groundwater quality within aquifer areas, which are existing or potential sources of significant quantities of potable water, land use activities on or within 500 feet of identified aquifer areas must be carefully reviewed and appropriately regulated. Accordingly the following requirements shall apply to all land use activities on or within 500 feet of aquifer areas as identified in Mansfield's Plan of Conservation and Development, Mansfield's Water Supply Plan, an October, 1979 map entitled GROUNDWATER RECHARGE AREAS, prepared by the Connecticut Area-wide Waste Treatment Management Planning Board, sheets 40, 41, 55 and 56, (on file in the Mansfield Planning Office and the Town Clerk's Office), and any additional information obtained from the State Department of Environmental Protection, federal agencies or on-site investigation.</p> <ol style="list-style-type: none"> 1. No commercial or industrial land use and no residential land use involving three or more dwelling units, which utilizes an on-site waste disposal system, shall be permitted unless it can be demonstrated to the satisfaction of the Planning and Zoning Commission that the waste disposal system discharges will not contaminate aquifer recharge areas. As deemed appropriate, the proposed land use shall be referred to the Mansfield Health Officer, the Mansfield Conservation Commission and the State Departments of Health and Environmental Protection for review comments. A written report from the owner-developer's sanitary engineer and/or geologist or other qualified professional, detailing the system design, the physical characteristics of the area, existing land uses in the area, and potential short-term and cumulative impacts on identified aquifer areas, shall be submitted to the Commission. 2. No underground fuel or chemical storage tanks shall be permitted, except after review and approval of the Mansfield Building Inspector and Fire Marshal. Where Planning and Zoning Commission approval is required for the subject use, all underground storage tanks must also be approved by the Commission. All such tanks and pipe connections shall be designed and constructed to prevent accidental contamination of groundwater. All storage tank facilities shall be designed and installed in conformance with all applicable provisions of the State Statutes and regulations, and the standards of Underwriters Laboratories, Inc. and the National Fire Prevention Association. 3. All agricultural operations must employ best management practices, as recommended by the State Department of Environmental Protection and the USDA Natural Resources Conservation Service, for the application of manure, fertilizer or pesticides and the management of animal wastes. 4. No road salt storage and loading facilities shall be permitted except after review and approval of the State Department of Environmental Protection. Where authorized, adequate measures must be taken to prevent groundwater contamination and to detect potential contamination problems. 5. All developments required to submit a storm water management plan pursuant to Article 6, Section B.4.t.3 and B.4.t.4 shall identify specific methods that will be used for snow and ice removal. Such methods shall be designed to minimize potential for ground water contamination from salts and other deicing chemicals. Refer to the CT DEEP Best Management Practices for Disposal of Snow Accumulations from Roadways and Parking Lots (https://www.ct.gov/deep/cwp/view.asp?a=2721&q=325692&deepNav_GID=1654%20) and the 2018 |

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| | | | <p>Pass the Salt: Efficient Snow and Ice Management publication prepared by Axiomatic (https://www.uvm.edu/seagrant/sites/default/files/uploads/Santoso_GreenSnowProHandouts_sm.pdf) for additional guidance on Best Management Practices..</p> <p>6. All land uses involving the maintenance of lawns, fields and landscaped areas shall incorporate landscape management plans regarding the use of fertilizers, pesticides, and other organic or chemical applications to minimize the risks of groundwater contamination. A landscape management plan detailing proposed provisions shall be submitted for Commission approval.</p> |
| | | | <p><i>The proposed site is within a stratified drift aquifer. Please identify how the development will comply with the standards of Article 6, Section B.4.m</i></p> |
| 6 | B.4.q | 6.5 | <p>Landscaping and Buffering</p> <p>1. General - All land use activities and particularly structures, parking areas and outdoor storage areas associated with commercial, industrial, or multi-family residence uses, shall include strategically placed landscape and buffer areas, which shall be designed to protect and preserve property values; to provide privacy from visual intrusion, light, dirt and noise; to prevent the erosion of soil and to provide water recharge areas; to promote pedestrian and vehicular safety; and to enhance the environmental quality and attractiveness of Mansfield.</p> <p>Except where alternative uses, such as parking areas, are provided for in other sections of these regulations, all required setback areas shall either be attractively landscaped with lawns trees and shrubs or, where appropriate, left in a sightly and well kept natural state. Landscape plans submitted in conjunction with a land use application shall identify, by type, size, height and placement, all proposed landscaping and all existing landscape features to be retained. Plants identified in the current State Department of Environmental Protection Agency listing of invasive species shall not be used. All submitted landscape plans must be adequate to meet the intended aesthetic, buffer and environmental purposes. Particular attention should be given to parking and loading areas, outside storage areas and shadow patterns with respect to south wall and rooftop solar access. See Article X, Section D.18 for supplemental interior parking lot landscaping requirements and Article X, Section R for architectural and design standards.</p> <p>2. Landscape Buffer - The Commission shall have the authority to require up to a 75 foot wide landscaped buffer area where a site abuts a more restrictive zone or an existing residential use. In addition, the Commission shall have the authority to require a landscaped buffer area when a commercial, industrial, multi-family or other non-residential use abuts a historic structure or a cemetery. The width of the buffer for commercial, industrial, multi-family or other non-residential use that abuts a historic structure or cemetery shall be determined with reference to the existing physical characteristics of the property, such as topography, adjacent flood hazard, the location of existing structures, existing non-conforming lot characteristics, the nature of activity or the nature of the landscaping plan but in no event may the Commission require more than a 75 foot buffer. Buffers for a commercial, industrial, multi-family or other non-residential use that abuts an environmentally sensitive feature such as a river, brook, pond or wetland area shall be as determined by the Inland Wetlands Agency. The designated buffer area shall be attractively landscaped and shall be designed to achieve the desired buffering objectives, which may include the visual screening of the proposed use from abutting properties, the minimizing of auditory impacts and the protection and enhancement of historic structures, cemeteries or environmentally sensitive features. The buffer design shall consider vegetated</p> |

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| | | | earthen berms, multiple rows of staggered evergreens, selective plantings, walls, fencing, existing vegetation and other landscape measures. Due to special provisions contained or referenced in Article X, Section S, the landscape buffer requirements contained in this subparagraph shall not apply to land zoned SC-SDD. |
| | | | <ul style="list-style-type: none"> Plan proposed use of a board fence for screening of homes closest to the play areas and add-alternate ballfield. Staff recommends replacement with a more durable vinyl fence to minimize long-term maintenance. Both the board fence and the proposed 4-foot play area perimeter fencing should coordinate/match with the fencing existing at the nearby Mansfield Public Library. |
| 6 | B.4.r | 6.6 | <p>Site Development Principles</p> <p>2.j: Unless approved by the Commission, topsoil shall not be removed from developing areas except for sites of structures or manmade improvements. The topsoil from areas intended for such improvements shall be redistributed within the boundaries of the subject site to facilitate the provision of a suitable base for seeding and plantings. As necessary, additional topsoil shall be brought to the site. Soil and other materials shall not be temporarily or permanently stored in locations, which would cause suffocation of root systems of trees to be preserved. Applicable sand and gravel regulations shall be complied with.</p> <p><i>Add note that no topsoil is to be removed from the site.</i></p> |
| 6 | B.4.S | 6.9 | <p>Erosion and Sedimentation Control</p> <p><i>Update plan to address the following:</i></p> <ul style="list-style-type: none"> 4.h-No information provided on specific individual responsible for compliance 7.b-No zoning permit to be issued until erosion and sedimentation controls have been installed per the approved specifications and a certificate is provided to this effect. |
| 6 | B.4.t | 6.12 | <p>Stormwater Management</p> <p><i>See comments from Derek Dilaj</i></p> |
| 8 | A | 8.1 | <p>Schedule of Dimensional Requirements</p> <p>Unless specific exceptions are noted in other sections of these regulations, (particularly Article VIII, Section B, Article VII and Article X), this schedule of dimensional requirements shall apply to all lots, buildings, structures and site improvements, including parking, loading, outdoor recreational facilities such as tennis, volleyball or basketball courts that are distinct from driveway /parking areas or lawns, and outside storage areas. See other side of this page for notes included in this Schedule.</p> <ul style="list-style-type: none"> Proposed vehicular area for storage building is located within the required 50-foot setback; revise plans to maintain 50 foot setback. Retaining wall at southeastern edge of vehicular area needs a fence/bollard for vehicular protection. Please confirm building height meets maximum allowed (35 feet) as measured pursuant to Section 4.B.32 (definition of height) |
| 10 | C | 10.14 | <p>Signs</p> <p><i>No sign information has been provided for review. PZC may require approval of signs or may defer to staff.</i></p> |
| 10 | D.11 | 10.29 | <p>Accessible Parking Spaces - All proposed commercial, industrial, governmental and multi-family residential land uses shall provide accessible parking spaces for persons with disabilities. At minimum, said spaces shall conform with Section 14-253a(h) of the State Statutes and the State Building Code in number, location and</p> |

| | | | |
|----|------|-------|--|
| | | | design. However, additional handicap spaces may, depending on the number of entrances and the nature of the population served, be required by the Commission. |
| | | | <i>While the plan meets the minimum number of accessible spaces provided, the Commission may require additional spaces based on the use type/population served. The Town has received past criticism for only providing the minimum number of accessible spaces. Given potential community use of the school, consideration should be given to increasing the number of accessible spaces.</i> |
| 10 | D.17 | 10.30 | Lighting - All parking and loading areas shall be adequately illuminated in order to prevent vehicular and pedestrian safety problems. All lighting fixtures shall be arranged (and, where appropriate, shielded) to prevent glare and to direct light away from any neighboring residential properties (also see Article VI, Section B.4.g.). |
| | | | <i>See comments</i> |
| 10 | D.18 | 10.30 | Snow Removal - All parking and loading areas shall be designed, constructed and maintained to address snowplowing and snow removal needs for the site. All loading areas and the minimum number of parking spaces required by these regulations and any Commission approval requirements shall be available for year-round use. |
| | | | <i>No snow removal storage areas are identified on the plan. When locating, consult with Town Engineer.</i> |
| 10 | H | 10.45 | FILLING/GRADING/EXCAVATION/REMOVAL/PROCESSING OF SOIL, STONE, SAND AND GRAVEL, PEAT MOSS AND OTHER SIMILAR MATERIALS |
| | | | <i>Please provide total volume of material to be brought to the site, removed from the site or relocated on the site so that staff can determine whether the provisions of this Section of the Regulations apply.</i> |
| 10 | R | 10.65 | Architectural and Design Standards |
| | | | <ul style="list-style-type: none"> • <i>Describe how roof mounted mechanical equipment (if any) will be screened from view (10.R.3.f)</i> • <i>Provide details of signage and lighting fixtures. Revise fencing details to coordinate with existing fencing at public library unless such fencing would be inconsistent with architectural design. Replace board fence with more durable material as previously referenced (10.R.3.j)</i> • <i>Affirm that no invasive species as identified by CTDEEP and US EPA have been used the landscape plan (10.R.4.b)</i> • <i>Provide details on proposed lighting fixtures (10.R.4.d)</i> • <i>Provide location details for benches and trash/recycling receptacles (10.R.4.g)</i> |

Derek M. Dilaj, PE
Acting Public Works Director

To: Lauren Mello, PE, Fuss & O'Neill
Copy: Linda M. Painter, AICP, Director of Planning & Development
Date: September 9, 2020
Date Received: August 26, 2020
Date Reviewed: September 5, 2020
Re: Mansfield Elementary School, 134 Warrentville Road, Mansfield, CT
Designer: Ronald E. Bomengen, PE, Fuss & O'Neill
Plans: Town of Mansfield, CT Mansfield Elementary School, 134 Warrentville Road, Mansfield, CT 06268, State Project Number 078-0068N Phase 2 of 3 August 26, 2020 Planning and Zoning Submission

General

1. Zip Code for the elementary school will be 06250

Stormwater Management

1. Existing Catch Basin CB5 appears to have a proposed underdrain but not referenced for an invert in.
2. The 274' contour is not shown within the parking lot rain garden.
3. Please provide a cross section of the proposed rain garden within the parking area. Please clarify how the rain garden and parking area will be delineated.
4. On Sheet C1.02 – Catch Basins 71 and 106 do not have inlet protection shown.
5. The proposed design utilizes hydrodynamic separators for pretreatment for the subsurface infiltrators. The hydraulic modeling indicates these will operate under tailwater conditions.
6. Confirm stability of the rain garden in the parking lot and demonstration of adequate pre-treatment within this feature prior to discharge.
7. Tailwater is not being considered in the HydroCAD analysis and the method should be changed in Dynamic routing.
8. It does not appear there is sufficient pre-treatment ahead of the Infiltration Basin or 25% of the Water Quality Volume in accordance with the CTDEEP Water Quality Guidelines.
9. It appears the average infiltration rate in the native materials is in excess of 5 inches per hour recommended by the CTDEEP Water Quality Guidelines. It appears hydrodynamic separators

will be used for pretreatment of the water quality volume prior to the subsurface infiltration system however, no pretreatment is provided for the Modified Wooden Depression.

10. Please provide an 8' vegetated access drive surrounding the modified wooded depression for maintenance.
11. Consider changing STMH44 to a catch basin or yard drain to accommodate runoff from the swale.
12. Outlet Structure STMH66 contains a 2" Low Level orifice, which would be subject to plugging. Are alternative designs available to ensure function or present the operation of the system during a failure condition.
13. It appears the underdrain entering STMH66 is in conflict with the 24" HDPE from STMH21.
14. Provide detail for the proposed inspection ports, manhole for inspecting and removing sediment from the subsurface infiltration basins, and configuration of proposed manifold and/or isolator row.

Construction

1. The existing outfall appears to discharge over the proposed area for construction of the school. Will the northern portion of the stormwater system be constructed prior to the remaining earthwork so the existing system could be temporarily diverted while construction is being conducted?
2. It is not clear the extents of the Segmented Concrete Retaining Wall versus the Type 2 Concrete Retaining Wall. Please confirm that the toe drain for the retaining wall meets the separation requirements in the Public Health Code from the concession stand septic system.
3. What is the proposed water service size to the concession stand?
4. Can the water lines from the Water Vault to the Mechanical building be consolidated to a single line?
5. Is there an operational reason for eliminating curb reveal in the Parent Drop-Off Area? Maintaining a small curb reveal would be preferred to ensure vehicular traffic remains on the pavement.
6. The utilities to the wells are in conflict with the proposed plantings at the top of the retaining wall.
7. Provide sizing of the generator fuel tank and any supplemental tanks.

Landscaping

1. Site Plans shall indicate locations for Snow Storage.
2. It appears the Red Sunset Maple is sensitive to salt and located in areas that would be available for snow storage. These should be relocated or an alternative species less sensitive to salt be selected.

Sanitary Sewer

1. Please relocate the force main below the access drive to the rear of the property.
2. The sanitary sewer force main near STMH 63 is located below the light post. Please relocate either facility for future maintenance.
3. Please relocate the septic tank pumping controls onto the maintenance building or school.

Solid Waste

1. Please clarify where detail L5.04.3 (Trash/Recycling Receptacle) is being proposed.
2. Provide detail for trash compactor and recycling container?
3. What is the infrastructure for on-site composting.

Traffic Comments

1. Additional striping and directional arrows should be considered on the main driveway. The Town experiences issues with queuing at the Middle School for student drop off whereby vehicles do not adhere to waiting for the vehicle in front.
2. Additional striping at the Browns Road and Route 195 intersection to ensure vehicles are able to exit from Browns Road.

Linda M. Painter

From: Virginia D. Walton
Sent: Wednesday, September 16, 2020 11:20 AM
To: Linda M. Painter
Subject: School plan - waste, recycling. reuse, composting comments

Linda,

Having looked at the plans here are my comments:

1. In statement of use, I wasn't sure if some of the water from roof drainage will be captured for use on site?
2. In statement of use, under sustainability there is no mention of deconstruction, use of local materials or water conservation. There was discussion about this at one of the Sustainability Committee meetings and a request from both SWAC and the Sustainability Committee asking the school building committee to consider deconstruction over demolition.
3. Need details on the trash compactor area - no mention of recycle roll-off.
4. There is detailed drawing of trash and recycle containers – not sure where these containers are being placed? Is the school getting new containers for indoors? Is there a need for trash and recycle containers outside?
5. No identified location for on-site full scale composting. Looks like there is a location for a smaller system by the learning garden. For on-site food scrap composting, need a space for storing wood chips and cured compost as well as a 3 compartment compost bin. *(Demonstration project application has been submitted to DEEP to move food scraps off-site and compost at the Mansfield transfer station, but we don't have any assurance of approval of the application and when it could be approved.)
6. Unclear about how the lunchtime composting, trash, reuse set up works. For instance, is the condiment counter set up for bulk containers? Where do the students empty their trays? Does the kitchen have enough storage space for tumblers, bowls, trays, condiment containers, silverware? Is there enough counter space in the washing area for these dirty items and for clean drying items?

Virginia Walton
Recycling Coordinator

860.429.3333
waltonvd@mansfieldct.org



Sustainability Committee
Wed, Sep 16, 2020 5:30 PM - 6:30 PM (EDT)

Please join my meeting from your computer, tablet or smartphone.
<https://global.gotomeeting.com/join/688230981>

You can also dial in using your phone.
United States: +1 (571) 317-3122

Access Code: 688-230-981

New to GoToMeeting? Get the app now and be ready when your first meeting starts:
<https://global.gotomeeting.com/install/688230981>

Invoice



Consulting Engineering Services Inc.

811 Middle Street
 Middletown, CT. 06457
 (860) 632-1682

ACH Remittance Information:

Liberty Bank Routing No: 211170282
 315 Main St. Acct. No. : 417032803
 Middletown, CT 06457
 (888) 570-0773

Town of Mansfield
 4 South Eagleville Road
 Mansfield, CT 06268

August 31, 2020
 Invoice No: 2020067.00 - 0000005

Project 2020067.00 Mansfield Elementary School Cx
 PM: Randy Walikonis

Professional Services from July 26, 2020 to August 22, 2020

Task 000G1 Design Phase

Fee

| Billing Phase | Fee | Percent Complete | Earned |
|---|------------------|------------------|-----------------|
| Review Design,OPR and BOD | 2,290.00 | 59.00 | 1,351.10 |
| Attend/Participate in Design Charrettes | 2,290.00 | 50.00 | 1,145.00 |
| Design Phase Reviews & Meetings | 11,445.00 | 11.00 | 1,258.95 |
| Energy Usage Assessments & Meetings | 2,290.00 | 22.00 | 503.80 |
| Commissioning Plan, Spec Development | 1,145.00 | 22.00 | 251.90 |
| Enevelope Review and Comment | 1,145.00 | 0.00 | 0.00 |
| Other | 0.00 | 0.00 | 0.00 |
| Total Fee | 20,605.00 | | 4,510.75 |

APPROVED FOR PAYMENT

Previous Fee 4,396.25
 Billing
 Current Fee 114.50
 Billing

Date: 9/24/2020



Total Fee **114.50**
 Budget Block: V.A5
 Purchase Order: 76298

Total this Task \$114.50

Task 000G2 Construction Phase

Fee

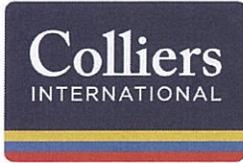
| Billing Phase | Fee | Percent Complete | Earned |
|---|-----------|------------------|--------|
| Submittal Reviews | 4,575.00 | 0.00 | 0.00 |
| Checklist & Functional Test Writing | 4,575.00 | 0.00 | 0.00 |
| Envelope & System Field Reviews | 13,730.00 | 0.00 | 0.00 |
| Commissioning Team Meetings | 5,725.00 | 0.00 | 0.00 |
| Functional Test Execution&Documentation | 31,045.00 | 0.00 | 0.00 |
| O&M Manual Review&Training Review | 4,580.00 | 0.00 | 0.00 |
| Compliation of Commissioning Record | 2,290.00 | 0.00 | 0.00 |
| System Manual Development | 4,575.00 | 0.00 | 0.00 |
| Coord of Bldg Envelope&Blower Door Test | 2,290.00 | 0.00 | 0.00 |

REMIT TO ADDRESS: 811 Middle Street, Middletown CT, 06457...Please reference CES Project No. and Invoice No. on check stub...Please email ACCOUNTING@CESENG.COM with remit info when making ACH / EFT payment to ensure proper account credit.

| Project | 2020067.00 | Mansfield Elementary School Cx | Invoice | 0000005 |
|----------------------|------------|--------------------------------|------------------------|-------------|
| CT HPB Documentation | | 2,290.00 | 0.00 | 0.00 |
| Total Fee | | 75,675.00 | | 0.00 |
| | | Previous Fee Billing | | 0.00 |
| | | Current Fee Billing | | 0.00 |
| | | Total Fee | | 0.00 |
| | | | Total this Task | 0.00 |

Task 000G3 Occupancy and Operations
Fee

| Billing Phase | Fee | Percent Complete | Earned | |
|--|------------------|----------------------|---------------------------|-----------------|
| Seasonal Testing:Inc Bi-Monthly Meeting | 3,430.00 | 0.00 | 0.00 | |
| Near-warranty End Review | 3,430.00 | 0.00 | 0.00 | |
| Energy Use and Assessment Reviews | 2,290.00 | 0.00 | 0.00 | |
| Measurement&Verification:Inc Mnthly Data | 8,010.00 | 0.00 | 0.00 | |
| Total Fee | 17,160.00 | | 0.00 | |
| | | Previous Fee Billing | 0.00 | |
| | | Current Fee Billing | 0.00 | |
| | Total Fee | | 0.00 | |
| | | | Total this Task | 0.00 |
| | | | Total this Invoice | \$114.50 |



PROJECT LEADERS

INVOICE

| | |
|-----------------------|---------------|
| Invoice Number | 007121 |
| Date: | Aug-31-2020 |
| Due Date: | Sep-30-2020 |
| Terms: | Net 30 Days |

| CUSTOMER | PROJECT |
|---|---|
| Mansfield CT Town of 4 South Eagleville Road Mansfield CT 06268 United States of America Attn: Tasha Smith, Executive Assistant | Mansfield, CT - Mansfield Elementary School PO Number: 70634 (75679 Reimb) |

| DESCRIPTION | QUANTITY | RATE | INVOICE AMOUNT |
|---|----------|------|----------------|
| Project Mgmt Services: Pre-Referendum / Feasibility | 0.00 | 0.00 | 0.00 |
| Project Mgmt Services: Bidding | 0.00 | 0.00 | 0.00 |
| Project Mgmt Services: Design Phase | 0.00 | 0.00 | 13,645.00 |
| Project Mgmt Services: Construction | 0.00 | 0.00 | 0.00 |
| Project Mgmt Services: FF&E / Closeout | 0.00 | 0.00 | 0.00 |
| MILEAGE: Project Mgmt Services: Expenses | 37.00 | 0.58 | 21.28 |
| PHONE: Project Mgmt Services: Expenses | 1.00 | 8.98 | 8.98 |

PO 70634
\$30.26
PO 75679

Description of Services:

August, 2020

- 1) Attend building committee meetings
- 2) Update milestone schedule for pre-construction phase
- 3) Review project invoices and develop invoice packet
- 4) Set up financials and coordinate PO's with Town
- 5) Coordinate additional survey work
- 6) Coordinate with Commissioning agent
- 7) Coordinate RFP for well drilling
- 8) Coordinate and attend Phase 1 State review

| | | |
|--|---------------------|------------------|
| <i>Please note our new Legal Name Colliers Project Leaders USA NE, LLC</i> | Sales Total: | 13,675.26 |
| | Tax Total: | 0.00 |
| | Total (USD): | 13,675.26 |

MAIL PAYMENTS TO:

Colliers Project Leaders USA NE, LLC
135 New Rd
Madison, CT 06443
860-395-0055

EFT/ACH INFO:

Colliers Project Leaders USA NE, LLC
TD Bank
Acct #: 424-4045773
Routing #: 011103093

DOMESTIC WIRE INFO:

Colliers Project Leaders USA NE, LLC
TD Bank
Acct #: 424-4045773
Routing #: 031101266



WIRE REMIT TO: Citizens Bank, 1 Citizens Dr, Riverside, RI 02915
 ACCOUNT NO: 6238671320
 ABA/ROUTING #: 036076150
 SWIFT CODE: CTZIUS33
 Please include Invoice Number

CHECK REMIT TO: PO Box 536409 Pittsburgh, PA 15253-5906

Tasha Smith
 Town of Mansfield
 4 South Eagleville Rd
 Mansfield, CT 06268

August 27, 2020
 Project No: 140223601
 Invoice No: LCT 0057985

Southeast School
 134 Warrenville Rd
 Mansfield, CT 06250

Langan Proj Mgr. 2737

PO #77404

Professional Services from July 25, 2020 to August 21, 2020

| | | |
|-------|-------|-----------------------|
| Phase | 650 | Demo/ Hazmat/Asbestos |
| Task | 027.0 | Asbestos Survey |

Professional Personnel

| | Hours | Rate | Amount | |
|--|-------|--------|----------|-----------------|
| Hazardous Building Materials Senior Insp | 10.00 | 125.00 | 1,250.00 | |
| Hazardous Building Materials Inspector | 37.50 | 75.00 | 2,812.50 | |
| Totals | 47.50 | | 4,062.50 | |
| Total Labor | | | | 4,062.50 |

Samples

| | | |
|---|-----------------------|-------------------|
| 275 PLM Samples @ \$9/Sample | 2,475.00 | |
| 4 PLM Point Count Samples @ \$20/Sample | 80.00 | |
| Total Samples | | 2,555.00 |
| | Total Base Bid | \$6,617.50 |

Additional Samples

| | | |
|---|----------|-----------------|
| Additional PLM Samples - 154 @ \$9/Sample | 1,386.00 | |
| Total Additional Samples | | 1,386.00 |

APPROVED FOR PAYMENT

Total this Invoice \$8,003.50

Note: HBM Survey and Sampling



Date: 9/24/2020
 Budget Block: V.A3a
 Purchase Order: 77404

Original PO for sampling \$7,650, additional sample pricing approved per committee chair on 7/31/20 via email.

TERMS: Invoices are payable within 30 days. A service charge of 1.5% per month will be imposed on all bills not paid within 30 days. If a bill remains unpaid after 60 days, we will discontinue our work until payments are received to bring your account current. We reserve the right to terminate an account without notice for non-payment.



Tel (860) 432-0260 Fax (860) 432-0326

Invoice To:

**Town of Mansfield
4 South Eagleville Rd
Mansfield, CT 06268**

**COPY via email to:
scott.pellman@colliers.com**

INVOICE #14434

Date: 09/01/2020
Terms: Net 30 Days
Date Due: 10/01/2020
Balance Due: \$964.97

Remit Payment To:
Offshore Construction, Inc.
280 Hartford Road
Manchester, CT 06040

Client P.O.#: Verbal-Matt Myers
Alt. Invoice #:

Job: WO #17131 (Alt. #.)

Building: Southeast Elementary School, 134 Warrenville Road, Mansfield, CT 06250 USA

Work Performed: Upon arrival, met with a member from Langan to provide support for twenty (20) core cut locations throughout the main building. Samples of each core were obtained by Langan for laboratory testing analysis. Patched over all to bring back all locations to waterproof condition.

Also, samples of the shingles and underlying Ice and Water Shield were obtained from the storage roof.

| Item Code | Item Type | Description | Qty | Unit Cost | Total Cost |
|-----------|-----------|-------------------------------|-----|-----------|------------|
| | labor | 07/29/2020 - Technician Hours | 6.0 | \$78.00 | \$468.00 |
| | material | Total Materials | 1.0 | \$496.97 | \$496.97 |

APPROVED FOR PAYMENT

Date: 09/24/2020



Budget Block: V.B12

Purchase Order: 78163

Roof patching due to hazmat sampling

| | |
|------------------------------------|-----------------|
| Labor: | \$468.00 |
| Materials: | \$496.97 |
| Other: | \$0.00 |
| Subtotal: | \$964.97 |
| Tax: | \$0.00 |
| Gross Invoice Amount: | \$964.97 |
| Retention: 0.00% | \$0.00 |
| BALANCE DUE: | \$964.97 |
| Memos: | \$0.00 |
| BALANCE DUE AFTER MEMOS: | \$964.97 |
| Payments: | \$0.00 |
| BALANCE DUE AFTER PAYMENTS: | \$964.97 |

THANK YOU FOR YOUR BUSINESS.

August 28, 2020

Town of Mansfield
 Audrey P. Beck, Municipal Building
 4 South Eagleville Road
 Mansfield, CT 06268

PROJECT: New Elementary School

PROJECT NO: 191202

INVOICE NO: 7

PROJECT SUMMARY

Fee for Architectural Design Services is based on a lump sum of \$2,601,500.

| <u>Service or Phase</u> | <u>Contract Amount</u> | <u>Billed to Date</u> | <u>Paid to Date</u> |
|--|------------------------|-----------------------|---------------------|
| Schematic Design | \$ 513,500.00 | \$513,500.00 (100%) | \$462,150.00 |
| Design Development | \$ 639,000.00 | \$319,500.00 (50%) | \$ 0.00 |
| Construction Documents | \$ 709,000.00 | \$ 0.00 | \$ 0.00 |
| Bidding & Scope Reviews | \$ 120,000.00 | \$ 0.00 | \$ 0.00 |
| Construction Administration (\$24,500/mon) | \$ 392,000.00 | \$ 0.00 | \$ 0.00 |
| FF&E Design/Bid/Procurement/Installation | \$ 90,000.00 | \$ 0.00 | \$ 0.00 |
| Site Completion/Project Closeout (4 mon.) | \$ 98,000.00 | \$ 0.00 | \$ 0.00 |
| Geotechnical Services | \$ 40,000.00 | \$ 40,000.00 (100%) | \$ 0.00 |
| TOTALS | \$2,601,500.00 | \$873,000.00 | \$462,150.00 |

REIMBURSABLE ITEMS

\$1,397.25

\$0.00

PROFESSIONAL SERVICES

Fee for Architectural Services for the period ending July 31, 2020.

DESIGN DEVELOPMENT:

\$639,000 x 50% = \$319,500.00

APPROVED FOR PAYMENT



REIMBURSABLE ITEMS:

Application for Soil Testing Fees
 (FUSS & O'NEILL invoice attached) \$ 1,397.25

Date: 9/24/2020

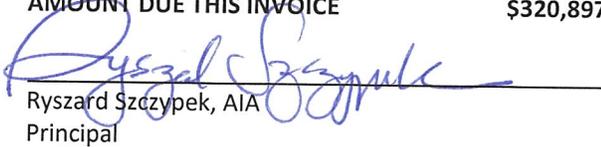
AMOUNT DUE THIS INVOICE

\$320,897.25



Budget Block: V.A2/V.B9

Purchase Order: 76131


 Ryszard Szczypiek, AIA
 Principal

Cc: scott.pellman@colliers.com

Felicia.smith@colliers.com

Please complete this form in its entirety.
Submit the completed form to an officer for approval.
Once approved, submit the form to Financial Services for processing.

#7463 chk req 1 052120

Fuss & O'Neill, Inc.
Fuss & O'Neill Entity

Date: May 19, 2020

(Please make sure your project # is correct and ACTIVE)

Emp. ID: 00672 Project#: 20190094.A20 Task#: 001100 GL Code: 10001

Payable To: Eastern Highlands Health District (EHHD)

Street Address: 4 South Eagleville Rd

P. O. Box: _____

City, State, ZIP: Mansfield, CT 06268

Date needed: Mail by May 22, 2020
(specific date required)

Checks are cut on Thursdays and distributed (interoffice mail or mail station) by the end of the day Thursday (5:00 pm). All other checks will be mailed Friday afternoon.

Return check to: _____
(Check will be mailed to address above, if left blank)

Business reason for expense: EHHD Application for Soil Testing fees

Purchase Price: \$1,215.00

Sales Tax: \$0.00

Total: \$ 1,215.00

11.5 (Fuss + O'Neill's markup)
\$1397.25

ALL BACKUP PAPERWORK PERTAINING TO THIS REQUEST MUST BE ATTACHED FOR PROCESSING

Kurt Mailman
Signature of Officer as Authorization

Kurt Mailman
Officer Name

05/19/2020
Date

Note:
Marketing and professional organization membership expenses (including advertising, charitable contributions, golf tournaments, meetings, conferences, and dues) are to be approved via a Marketing and Business Development Approval Form. The form can be found on the Intranet.



Eastern Highlands Health District

4 South Eagleville Road • Mansfield, CT 06268 • Tel: (860) 429-3325 • Fax: (860) 429-3321 • www.ehhd.org

APPLICATION FOR SOIL TESTING

Please submit this completed application with fees* to the Eastern Highlands Health District office in your town and contact the local sanitarian to schedule an appointment.

Up to 2 or 3 weeks lead time may be required for scheduling soil tests

Purpose of Soil Test: Septic Repair B100a Site Assessment
 New Lot Development Subdivision

Date: 05/19/2020

Name of applicant: Matthew Jermine, PE

Mailing Address of applicant: Fuss & O'Neill, Inc., 146 Hartford Rd, Manchester, CT 06040

Telephone: (203) 314-1109 Email: MJermine@FandO.com Fax: _____

Property owned by (if different than applicant): Derek Dilaj, Town of Mansfield - Town Engineer & Acting DPW Director

Mailing Address of owner: Mansfield Town Hall, 4 S Eagleville Rd, Storrs Mansfield, CT 06268

Telephone: (860) 429-3331

Location of property: Southeast Elementary School, 134 Warrenville Rd, Mansfield Center

Town: Mansfield

If no street number or lot number is available: Assessors Map# _____ Block # _____ Lot# _____

Soil testing for vacant lot/s requires location map enclosed with application

If testing for subdivision, proposed name: _____ # of Lots _____

Deep Hole - \$105.00 (for first three test pits per lot) \$105.00

Perc Test - \$90.00 \$900.00

Additional Test Pits - quantity 7 \$210.00 (\$30 each)

Total Fees - \$1,215.00

As the property owner or the duly authorized representative of the property owner for the above referenced property, I agree to permit EHHD staff to enter the above referenced property for the purpose of administering a site evaluation to determine the suitability of the site for on-site sewage disposal. I further agree that this authorization to enter the subject property may extend through a period of time ending with the final septic design approval and affirm such with my signature below.

***FEES:**

Checks Payable to the Eastern Highlands Health District (EHHD).

Coventry: Checks payable to Town of Coventry;

Tolland: Checks payable to Town of Tolland

Signature of Applicant

Office Use Only: Date: _____ Amount Enclosed: _____ Check Number/Cash: _____ Receipt No. _____

Preventing Illness & Promoting Wellness for Communities In Eastern Connecticut

Andover • Ashford • Bolton • Chaplin • Columbia • Coventry • Mansfield • Scotland • Tolland • Willington

Revised May 2018

September 1, 2020

Town of Mansfield
 Audrey P. Beck, Municipal Building
 4 South Eagleville Road
 Mansfield, CT 06268

PROJECT: New Elementary School

PROJECT NO: 191202
 INVOICE NO: 8 (Page 1 of 2)

PROJECT SUMMARY

Fee for Architectural Design Services is based on a lump sum of \$2,601,500.

| <u>Service or Phase</u> | <u>Contract Amount</u> | <u>Billed to Date</u> | <u>Paid to Date</u> |
|--|------------------------|-----------------------|---------------------|
| Schematic Design | \$ 513,500.00 | \$513,500.00 (100%) | \$513,500.00 |
| Design Development | \$ 639,000.00 | \$575,100.00 (90%) | \$ 0.00 |
| Construction Documents | \$ 709,000.00 | \$ 0.00 | \$ 0.00 |
| Bidding & Scope Reviews | \$ 120,000.00 | \$ 0.00 | \$ 0.00 |
| Construction Administration (\$24,500/mon) | \$ 392,000.00 | \$ 0.00 | \$ 0.00 |
| FF&E Design/Bid/Procurement/Installation | \$ 90,000.00 | \$ 0.00 | \$ 0.00 |
| Site Completion/Project Closeout (4 mon.) | \$ 98,000.00 | \$ 0.00 | \$ 0.00 |
| Geotechnical Services | \$ 40,000.00 | \$ 40,000.00 (100%) | \$ 0.00 |
| TOTALS | \$2,601,500.00 | \$1,128,600.00 | \$513,500.00 |

REIMBURSABLE ITEMS

\$1,397.25 **\$0.00**

PROFESSIONAL SERVICES

Fee for Architectural Services for the period ending August 31, 2020.

DESIGN DEVELOPMENT:

\$639,000 x 90% = \$575,100.00
 Previously Billed \$319,500.00

APPROVED FOR PAYMENT



AMOUNT DUE THIS INVOICE **\$255,600.00**



Ryszard Szczypek, AIA
 Principal

Cc: scott.pellman@colliers.com
Felicia.smith@colliers.com



Date: 9/24/2020
 Budget Block: V.A2
 Purchase Order: 76131

CONTINUED ON NEXT PAGE

PROJECT: New Elementary School

PROJECT NO: 191202
INVOICE NO: 8 (Page 2 of 2)

STILL OUTSTANDING:

8/1/20 Invoice #6 \$320,897.25