

**PRE-RENOVATION HAZARDOUS MATERIALS INSPECTION
For Window Replacement Project**

PERFORMED AT:

**Roger Ludlowe High School
785 Unquowa Road
Fairfield, CT**

PREPARED FOR:

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Wiles Architects
155 Brooklawn Avenue
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PREPARED BY:

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**Inspection Date: October 3, 11, 13, 17 and 18, 2011
Report Date: October 21, 2011**

1.0 INTRODUCTION

On October 3, 11, 13, 17 and 18, 2011, AMC Environmental, LLC conducted a pre-renovation hazardous materials inspection at Roger Ludlowe High School, located at 785 Unquowa Road in Fairfield, CT. The purpose of the inspection was to identify potential hazardous building materials that may be associated with the various types of window systems present throughout the building. The inspection included only window systems scheduled to be replaced during this project. The scope of this inspection is limited to the materials described below.

Asbestos Containing Materials (ACM)

The asbestos inspection was conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA), a provision of the Toxic Substances Control Act, which became law in 1986. Connecticut Regulations for Asbestos Work in Schools section 19a-333a states that schools must inspect any suspect material prior to disturbing it.

Asbestos inspection performed by: Richard Onofrio
State of Connecticut licensed Asbestos Inspector
License # 000715

Lead Based Paint

The lead-based paint screen was performed to satisfy the requirements set by the State of Connecticut Department of Environmental Protection (DEP), Bureau of Waste Management "Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries".

Additionally, OSHA regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead in Construction.

The lead based paint screen was performed by Richard Onofrio; a State of Connecticut Licensed Lead inspector/Risk Assessor (License # 002217).

Polychlorinated Biphenyls (PCBs)

The PCB inspection was performed to satisfy the Toxic Substances Control Act (TSCA) of 1976. This authorized U.S. EPA to control substances that were determined to cause unreasonable risk to public health or the environment. In 1979 the U.S. EPA banned the manufacture of new products containing PCBs and developed regulatory requirements for the storage, labeling, use, and disposal of materials containing PCBs at levels above the regulatory thresholds. As a result, caulking materials with concentrations above 50-ppm must be managed as PCB wastes and removed following special procedures. PCB

concentrations below this threshold of 50 ppm are overseen on the state level and regulated by the State of Connecticut Department of Environmental Protection (DEP).

2.0 BUILDING DESCRIPTION

Roger Ludlowe High School is a four level building located at 785 Unquowa Road in Fairfield, Connecticut. The school has been occupied since 1963. AMC sampled and assessed the window systems and their components throughout the school prior to the start of a proposed window replacement project. AMC referenced Wiles Architects Window Survey Report dated July 25, 2011. The report identified approximately 30 types of windows that are in need of replacement/repair. Grouping the windows into homogeneous areas was difficult due to the variability of the materials found present. Many windows, tracks, locks, hinges, etc. have been replaced, repaired or reclaimed over time. This lack of consistency makes categorizing the building materials challenging.

All windows assessed were of metal clad construction with either a stone or concrete sill. All windows were installed within painted concrete block or brick construction. Typically, all windows contained interior and exterior window glazing compound and window frame caulk. A given room may have a combination of window types and materials present, and in many cases show little to no consistency overall.

3.0 ASBESTOS CONTAINING MATERIALS

Inspection

This asbestos-containing materials inspection included interior and exterior caulking, window wrap, and glazing associated with several different window systems within Roger Ludlow High School in Fairfield, CT. Semi-destructive testing techniques are utilized during the inspection process. Suspect building materials that are inaccessible for inspection and sampling are assumed to be ACM for the purpose of this report. Suspect materials for a project of this nature are generally located under windowsills, behind window panels or covers, behind window jambs, or in otherwise concealed areas of the window system.

During the inspection, the Inspector documents the location, quantity, class, and friability of each suspect material. Friability is an industry term that measures a materials resilience. Material that can be easily crumbled, pulverized, or reduced to powder (by hand) when dried is defined as being friable. Estimated quantities of identified ACM's are provided for positive material only. Each material is either quantified in square or linear footage, depending on the type of material. For a full list of ACM and Materials needing to be re-tested or assumed **see table 1**. For a full list of all non-asbestos containing materials tested **see table 2**.

Bulk Sampling

The United States Environmental Protection Agency (USEPA) has separated ACM into three categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials, and Miscellaneous materials. TSI includes all materials that are used to prevent heat loss or gain, or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudded fitting cement. Surfacing includes any material that sprayed, toweled, or otherwise to an existing surface. Surfacing applications are commonly used in fireproofing and acoustical applications. All other material fall into the miscellaneous category such as vinyl floor tiles, ceiling tiles and drywall. All sampling methods and sampling quantities are collected at AMC's discretion and meet or exceed requirements set by the USEPA.

Bulk Sample Analysis

Samples of suspect materials are transmitted directly to an independent, State of Connecticut Department of Public Health (DPH), laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the acceptable method of analysis in accordance with the Environmental Protection Agency (EPA) "Interim Method for the Determination of Asbestos in Bulk Insulation", 40 CFR 763, Subpart F, Appendix A EPA 600/M4-82-020. The Inspector collected "sets" of samples for each homogenous material sampled. Each sample is analyzed in the set until one sample is determined to contain asbestos (more than 1%). Sample analyses are reported in percentage of asbestos. The USEPA defines ACM as any material that contains more than 1 % asbestos, by way of PLM. "NAD", refers to "No asbestos Detected", and "DNA" refers to "Did Not Analyze" due to stop at first positive. The State of Connecticut Department of Public Health, the USEPA, as well as the United States Department of Labor regulate any material determined to contain greater than 1% of asbestos.

Friable ACM

Other analytical methods are recommended for certain friable material samples. The Point Count Method can further analyze friable materials shown to contain less than 10% asbestos by PLM analysis. Recommended, by the United States Environmental Protection Agency, the Point Count Method is accepted as providing accurate analytical results when determining the percent content of bulk samples with very low asbestos concentrations. Friable material containing less than 1 % asbestos must be analyzed by the (PLM) Point Count Method.

Non-Friable ACM

Non-friable asbestos samples showing percentages containing less than 1%, NAD, or "TRACE", should be confirmed by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the USEPA. If the results from this analysis determine asbestos content to still be less than 1 %, the sample is considered not to be asbestos containing.

4.0 Conclusion

During the course of the building inspection, a total of ninety (90) samples of suspect ACM were collected, all of which were analyzed by PLM "stop on first positive".

From the ninety (90) samples, thirteen (13) ACM samples were identified. The materials identified included several different gray window-glazing compounds, black window glazing-compound, several different gray window frame caulks, brown window frame caulk, brittle black window frame caulk, replacement window glazing caulk, brittle gray window glazing compound, exterior gray window wrap, exterior gray window-glazing compound and interior window sealant found beneath the metal window cover. Samples obtained are representative and may not fully represent all materials present within each window type. It is evident that repairs and replacements have occurred over time and that many windows have been re-caulked or glazed (see **Table 1** for a complete list of ACM and their locations).

Additionally there were several samples of window-glazing compound and window frame caulk that documented <1% asbestos. AMC recommends these samples be re-tested using a stronger analysis known as the TEM NOB method, to confirm or deny the presence of asbestos in these materials. Generally, when samples documenting trace amount of asbestos (<1%) are analyzed under further magnification (TEM), asbestos is typically detected significantly higher than shown by PLM analysis. Due to budget restraints on this project the additional analysis was not performed, therefore these materials are considered to be non-asbestos containing. However OSHA standards and regulations still apply with any detectable amount of asbestos (see **Appendix A** for Analytical Results).

All regulated friable and non-friable asbestos containing material must be removed prior to demolition or renovations in which these materials will be disturbed. A State of Connecticut Licensed Abatement Contractor must be used to perform the removal work. A visual inspection must be performed by a Licensed Project Monitor at the completion of the abatement for each work area. Re-occupancy air clearance is required prior to any person re-entering the area.

The Abatement Contractor must submit a 10 day notice for asbestos abatement exceeding 10 linear feet or 25 square feet, to the State of Connecticut Department of Public Health. This notification can be hand delivered or postmarked 10 days prior to the start of asbestos abatement. For abatement jobs involving less than these threshold quantities, only a demolition notification is required.

5.0 RECOMMENDATIONS CONCERNING ASBESTOS

Laws govern all asbestos activities undertaken in the State of Connecticut. AMC Environmental, LLC suggests the following to ensure compliance with state, federal, or local asbestos regulations and to reduce possible liabilities.

- State of Connecticut, Department of Public Health; Standards for Asbestos Abatement (19a-332-1a through 19a-332a-16).
- State of Connecticut Licensure and Training Requirements for Persons Engaged in Asbestos Abatement and Consultation Services Section 20-440-1 through 20-440-9.
- The Federal Regulation governing asbestos is Title 40 of the Code of Federal Regulations (40 CFR), Part 61, Subpart M, Demolition and/or Renovation of Facilities with Asbestos-Containing Materials.

The following recommendations pertain to asbestos removal projects.

- A Licensed Asbestos Project Designer should develop a plan or specification to ensure asbestos is removed in a safe and proper manner. At a minimum, these specifications should include an effective asbestos removal plan, a thorough health and safety plan, reference to applicable legal standards, necessary regulatory notification, adequate insurance requirements and proper bidding procedures.
- A Licensed Project Monitor should monitor the asbestos removal. At a minimum, monitoring activities should include air sampling (before, during and after), inspection of contractor work practices and maintaining a daily monitoring log to thoroughly document removal activities.
- A Licensed Contractor must perform the asbestos removal.

Inaccessible Areas

The school was occupied during the inspection and the windows may not have been fully inspected, i.e. behind the casing or on the inside jambs. Also, due to budget restraints, the sample budget was restricted and further testing will be required to accurately categorize ACM from non-ACM based on homogeneous areas.

Disclaimer

Any work performed by AMC Environmental, LLC was done using the degree of care and skill ordinarily exercised under similar circumstances by members of the profession practicing in the same or similar capacity. The standard of care shall exclusively be judged as of the date of services rendered and not according to later standards. The

conclusions and recommendations contained in this report are based on limited environmental sampling and visual observations, and were arrived at in accordance with generally accepted standards of industrial hygiene practice. No other warranty, expressed or implied, is made.

TABLE 1

ASBESTOS CONTAINING MATERIALS SUMMARY

TABLE 1
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE

Roger Ludlowe High School
 Fairfield, CT

AMC Tracking # ASB101111		Laboratory: EMSL Analytical, Inc.			Laboratory Order # 241104205				
LOCATION(S)	MATERIAL TYPE	SAMPLE #	CLASS	BULK SAMPLE ANALYSIS RESULTS			QUANTITY	F/NF	
				PLM	PLM PC	TEM NOB			ACM
Room 015	Gray window glazing compound on metal window sash	9-29/RO-01	MISC	2% chrys			YES	TBD	NF
Room 115	Soft black window glazing compound	9-29/RO-02	MISC	5% chrys			YES	TBD	NF
Room 201	Gray window glazing compound	9-29/RO-16	MISC	2% chrys			YES	TBD	NF
Room 205	Gray window glazing compound	9-29/RO-29	MISC	2% chrys			YES	TBD	NF
Room 220	Gray window frame caulk @ sash/mullion seam	9-29/RO-30	MISC	2% chrys			YES	TBD	NF
Room 243	Caulk behind mullion cover	9-29/RO-37	MISC	10% chrys			YES	TBD	F
Room 255	Brown window frame caulk	9-29/RO-44	MISC	3% chrys			YES	TBD	NF
Room 255	Brittle black window frame caulk	9-29/RO-49	MISC	3% chrys			YES	TBD	NF
Room 255	Replacement window glazing caulk	9-29/RO-50	MISC	3% chrys			YES	TBD	NF
Room 302	Interior gray window glazing compound	9-29/RO-53	MISC	5% chrys			YES	TBD	NF
Room 369	Brittle window glazing compound	9-29/RO-54	MISC	4% chrys			YES	TBD	NF
		9-29/RO-64	MISC	2% chrys			YES	TBD	NF
				Estimated Quantity:					
				ANALYTICAL METHODS:					
NA - Not Analyzed		SF - Square Feet		PLM PC - EPA 600/R-93/116 Quantitation				400 Point Count	
NAD - No Asbestos Detected		LF - Linear Feet		TEM NOB - New York ELAP 198.4 Method					
F - Friable		Chrys - Chrysotile		PLM - EPA 600-R-93/116 Method					
NF - Non-Friable		Amos - Amosite		PS - Previously Samples					
TSI - Thermal Systems Insulation		Anth - Anthophyllite		ACM - Asbestos Containing Material					
SURF - Type of Surfacing Material		Trem - Tremolite		ASSD - Assumed Asbestos Containing Material					
MISC - Miscellaneous Material		Croc - Crocidolite							

TABLE 1
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE

Roger Ludlowe High School
 Fairfield, CT

LOCATION(S)	MATERIAL TYPE	SAMPLE #	CLASS	BULK SAMPLE ANALYSIS RESULTS			QUANTITY	F/NF
				PLM	PLM PC	TEM NOB		
Ext. Façade C	Gray window wrap between metal panel @ casing	9-29/RO-72	MISC	7% chrys		YES	TBD	F
Ext. Façade A	Brittle window glazing compound @ window sash	9-29/RO-73	MISC	8% chrys		YES	TBD	NF
O/S Room 138B	Window sealant between sash and casing panel	9-29/RO-83	MISC	5% chrys		YES	TBD	F
ASSUME: Throughout	Material under stone windowsill i.e. thin set/caulk, inaccessible caulk behind window sashes						Throughout	
				Estimated Quantity:				
				ANALYTICAL METHODS:				
NA - Not Analyzed		SF - Square Feet		PLM PC - EPA 600/R-93/116 Quantitation			400 Point Count	
NAD - No Asbestos Detected		LF - Linear Feet		TEM NOB - New York ELAP 198.4 Method				
F - Friable		Chrys - Chrysotile		PLM - EPA 600-R-93/116 Method				
NF - Non-Friable		Amos - Amosite		PS - Previously Samples				
TSI - Thermal Systems Insulation		Anth - Anthophyllite		ACM - Asbestos Containing Material				
SURF - Type of Surfacing Material		Trem - Tremolite		ASSD - Assumed Asbestos Containing Material				
MISC - Miscellaneous Material		Croc - Crocidolite						

Samples Analyzed By EPA Method 600/R-93/116 (PLM)
IN ACCORDANCE WITH STATE OF CONNECTICUT REGULATIONS Section 19a333-5

NOTE Polarized Light Microscopy may not consistently detect asbestos in samples of roofing, flashing, floor tile, mastic and similar non-organically bound materials. Transmission Electron Microscopy is currently the only method that can definitely determine if this material contains asbestos > 0.1% by weight. However, the State of Connecticut Regulations state that bulk samples shall not be composited for analysis and shall be analyzed for asbestos content by polarized light microscopy (PLM), using the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" found at Appendix A to subpart F in 40 CFR Part 763 as amended, or the current EPA method for the analysis of asbestos in building materials by polarized light microscopy.

TABLE 2
NON-ASBESTOS CONTAINING MATERIALS

TABLE 2
NON-ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE

Roger Ludlowe High School
Fairfield, CT

AMC Tracking # ASB101111		Lab: EMSL Analytical, Inc.	Lab # 241104205
Sample #	Sample Location	Sample Description	
9-29/RO-03	Room 015	Cement panel board window sill	
9-29/RO-04	Room 30	Gray/clear window caulk	
9-29/RO-05	Room 30	Gray/clear window caulk	
9-29/RO-06	Room 30	Original brittle window glazing compound	
9-29/RO-07	Room 30	Original brittle window glazing compound	
9-29/RO-08	Room 114	Soft gray window glazing compound	
9-29/RO-09	Room 114	Hard original window glazing compound	
9-29/RO-10	Room 121	Gray window glazing compound assoc w/ metal window sash	
9-29/RO-11	Room 121	Gray window glazing compound assoc w/ metal window sash	
9-29/RO-12	Room 121	Cement window sill	
9-29/RO-13	Room 121	Cement window sill	
9-29/RO-14	Room 115	Gray window frame caulk	
9-29/RO-15	Room 116	Gray window frame caulk	
9-29/RO-18	Room 115	Gray grout assoc w/ square glass window panels	
9-29/RO-19	Room 116	Gray grout assoc w/ square glass window panels	
9-29/RO-20	Room 121	Window frame caulk	
9-29/RO-21	Room 122	Black window glazing compound	
9-29/RO-22	Room 122	Gray window frame caulk	
9-29/RO-23	Room 133	Black/gray window glazing compound	
9-29/RO-24	Room 138A	Black window glazing compound	
9-29/RO-25	Room 138B	Gray replacement window caulk @ glazing	
9-29/RO-26	Room 142	Black replacement caulk @ window glazing	
9-29/RO-27	Room 142	Hard black compound b/w sill/window sash jct	
9-29/RO-28	Room 142	Black factory window glazing compound	
9-29/RO-31	Room 201	Soft gray replacement caulk used as window glazing material	
9-29/RO-32	Room 203	White window frame caulk @ sash/support column jct	
9-29/RO-33	Room 204	Gray window glazing compound on metal sash	
9-29/RO-34	Room 204	Gray window glazing compound on metal sash	
9-29/RO-35	Room 204	Soft-elastic gray replacement window glazing caulk	
9-29/RO-36	Room 205	Gray window glazing compound	
9-29/RO-38	Room 206	Gray window glazing compound	
9-29/RO-39	Room 206	Silver replacement caulk @ window glazing locations	
9-29/RO-40	Room 213	Brown window glazing compound	
9-29/RO-41	Room 214	Brown window glazing compound	
9-29/RO-42	Room 216	Gray window frame caulk @ sash/block jct	
9-29/RO-43	Room 220	Interior window frame caulk	
9-29/RO-45	Room 223	Hard white interior window glazing compound	
9-29/RO-46	Room 226	Brittle white window glazing compound	
9-29/RO-47	Room 230	Silver repair window glazing compound	

TABLE 2 (continued)
NON-ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE

Roger Ludlowe High School
Fairfield, CT

Sample #	Sample Location	Sample Description
9-29/RO-48	Room 238	Brown window glazing compound
9-29/RO-51	Room 243	Brown caulk applied as window glazing
9-29/RO-52	Room 243	Brown caulk applied as window glazing
9-29/RO-56	Room 266A	Metal window glazing compound
9-29/RO-57	Room 266A	Metal window glazing compound
9-29/RO-58	Room 269	Gray window glazing compound
9-29/RO-59	Room 280	Black replacement tar @ metal sash
9-29/RO-60	Room 282	Brittle window glazing compound
9-29/RO-61	Room 282	Replacement silicon @ window glazing
9-29/RO-62	Room 291	Gray window glazing compound
9-29/RO-63	Room 301	Gray window glazing compound
9-29/RO-65	Room 321	Hard gray window glazing compound
9-29/RO-66	Room 366	Soft gray window glazing compound
9-29/RO-68	Ext. fac A	Soft gray window frame caulk
9-29/RO-69	Ext. fac A	Soft gray window frame caulk
9-29/RO-70	Ext. fac A	Caulk @ window glazing
9-29/RO-71	Ext. fac A	Caulk @ window glazing
9-29/RO-74	Ext. fac C	Gray window frame caulk
9-29/RO-75	Ext. fac C	Gray window frame caulk
9-29/RO-77	Ext. fac D	Typical gray window frame caulk
9-29/RO-78	Ext. fac D	Window glazing compound
9-29/RO-79	Ext. fac D	Brittle caulk at window sill brick mold jct
9-29/RO-80	Ext. fac D	Brittle caulk at window sill brick mold jct
9-29/RO-81	Ext. fac C	Brittle caulk @ window sill/brick jct
9-29/RO-82	Ext. fac C	Gray window frame caulk
9-29/RO-84	Ext. fac A	Hard gray window frame caulk
9-29/RO-85	Ext. fac A	Thick hard window frame caulk @ brick/window jct
9-29/RO-86	Ext. fac A	Typical gray window frame caulk
9-29/RO-87	Ext. fac A	Caulk @ window sill/concrete transom
9-29/RO-88	Ext. fac A	Clear window glazing compound
9-29/RO-89	Courtyard	Brittle window frame caulk on metal sash
9-29/RO-91	O/S room 138 B	Brittle window glazing compound

** Samples listed in **bold and italics** all documented <1% asbestos. It is recommended that one or more of these samples be further analyzed using the TEM NOB method to further confirm or deny the presence of asbestos. If further testing is not authorized these materials can be considered non-asbestos containing, HOWEVER all OSHA standards/regulations for asbestos apply when working with these materials.

6.0 LEAD-BASED PAINT

X-Ray Fluorescence Screen

The lead-based paint screening was performed using an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 1326. The screen includes accessible surfaces and building materials within the inspection area. The lead screen tests limited components and surfaces throughout the building. It is not intended to test all painted surfaces, but to achieve a representation of painted components for the purpose of characterizing the waste stream.

The X-ray Fluorescence Analyzer (XRF) is the most common and accepted means of field-testing for lead in paint. The XRF detects lead through gamma ray technology. It is designed to measure the total weight of lead in a measured area. The results are reported in milligrams per centimeter squared (mg/cm^2). Most states have set a legal limit for lead in paint; Connecticut uses the $1.0\text{mg}/\text{cm}^2$ threshold. The lead screen provides the data necessary to accurately identify the waste streams that will be generated as a result of the renovation activities. These waste streams can then be evaluated by the Toxicity Characteristic Leachate Procedure (TCLP) test to determine if the waste will need to be discarded as hazardous lead waste or non-hazardous solid waste.

The computer generated lead-based paint inspection report is provided in Appendix A. The report consists of three (3) sections: a coversheet, summary report, and detailed report. Surfaces with results greater than $1.0\text{mg}/\text{cm}^2$ can be found in the summary report. All surfaces tested can be found in the detailed section of the report. The condition of the paint is also noted for each surface or component tested by either an "I" for Intact or a "P" for Poor. The Location of surfaces tested is illustrated by letters. "A" refers to street side, followed by B, C, and D, in a clockwise pattern.

Worker Protection

Toxic level lead-based paint as defined by the State of Connecticut Regulations means a level of lead which when present in a dried paint, plaster or other accessible surface in a residential dwelling contains more than 0.50 percent lead by dry weight as measured by atomic absorption spectrophotometry (AAS), or 1.0 milligrams lead per square centimeter of surface as measured on site by an X-ray fluorescence analyzer or other equipment deemed sufficiently accurate and reliable by the commissioner. OSHA regulates lead dust exposure to workers under 29 CFR 1926.62 and considers any detectable level of lead in paint (above or below Connecticut's level) to be a concern. Therefore OSHA requires exposure assessments be conducted for each task where painted surfaces or components are disturbed.

Lead Waste Characterization

The State of Connecticut Department of Environmental Protection regulates the disposal of hazardous waste. Lead containing waste is analyzed by a procedure known as a TCLP or Toxicity Leachate Procedure (Regulation of State DEP 22a-449©-101). This analytical test determines a buildings material waste classification.

The TCLP test requires a 100-gram sample of waste material, which is then analyzed and assessed for its ability to leach out lead into the environment. The waste is classified as

hazardous waste if the sample results are greater than 5.0 mg/l of lead. The wastes are classified as non-hazardous if the TCLP sample result is less than this threshold. All materials and components containing equal to or greater than 1.0mg/cm² of lead by XRF requires waste classification analysis.

Composite Sample and Demolish Method

The TCLP sampling method used for this project is referred to as the Composite Sample and Demolish Method. This method is conducted in accordance with the State of Connecticut Department of Environmental Protection Guidance for the Management and Disposal of Lead-Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. This method utilizes composite samples of all representative samples to assess the lead content of the entire quantity of debris to be removed. This method is most effective for whole building demolitions, where quantity on non-lead debris is expected to be greater than leaded debris.

The calculations of waste streams are initially determined by identifying each building component that will be disposed of once the structure is demolished. The inspector then calculates the percent contribution by weight in grams of each components contribution in the waste stream. Each material sampled is mixed together in proportion to their percent of total quantity of debris to be removed.

Results

XRF Testing Results

Eighty-nine (89) XRF readings were collected during the lead-based paint screen of the building windows and surrounding walls. The lead-based paint screen identified a limited number of components or surfaces that contain levels of lead paint over the threshold of 1.0mg/cm². Four (4) actionable levels of lead based paint above the threshold were identified on the interior of school. In rooms 006 and 007 the metal window mullion and the concrete windowsill documented a concentration of 1.0mg/cm², which is considered to be toxic threshold. AMC recommends doing confirmatory paint chip sampling to accurately identify the contents of the surfaces. Metal and concrete have been known to provide false positives in some cases. The metal clad windows had a factory milled finish. The windowsills were either natural stone or painted concrete. The walls surrounding the windows are of painted block construction. Without the confirmatory paint chip sample, these surfaces will need to be handled as toxic lead and appropriate work practices and procedures will have to be followed.

A complete inventory of tested building materials is illustrated in Detailed Reports and can be found in **Appendix B**.

Conclusion

Toxic levels of lead were found on a limited number of window surfaces. Further action is necessary at this time. However, AMC recommends doing confirmatory paint chip sampling to confirm the result. Initial exposure assessments must be performed on employees who engage in activities that disturb building materials with any detectable levels of lead in paint. Personal protective equipment must be provided to employees during such activities. Lead safe work practices and protocols must be followed. If the scope of work changes and includes surfaces not included in this report, additional sampling must be performed prior to the commencement of work.

7.0 (PCB's) POLYCHLORINATED BIPHENYLS

Inspection

PCB's can be found in a variety of items including transformers, capacitors, fluorescent light ballast, and other oil-containing equipment. Certain building materials such as flooring, caulking, roofing and insulation can also contain these materials. This PCB inspection focused on the caulking and window glazing associated with the various window systems found within the school. PCB's were extensively used between 1950 through 1977 in caulking material.

Potential PCB-containing caulking can exist in buildings constructed or renovated between 1950 and 1980. PCB caulking and glazing compounds can be found around windows frames and sills, door frames, masonry columns and other masonry building materials on interior and exterior surfaces, as well as in expansion joints. PCB containing items must be managed and disposed of properly in accordance with special requirements. Representative samples of caulking and window glazing material from the building's window systems were tested prior to the start of the window replacement project. Samples were obtained from both interior and exterior window components. If the results of the samples prove to be contaminated with PCB's, the surrounding soils and substrates also need to be surveyed to assess the potential for residual PCB contamination. PCB-containing caulking may leach PCBs into adjacent surfaces such as brick or block, soils, and impacted dust inside of buildings with PCB-containing caulking.

PCB concentrations in original caulking can vary from less than 50 parts per million (ppm) up to and exceeding 200,000 ppm. In locations where the original caulking has been replaced, PCBs may have leached into the surrounding substrate. In those locations where new caulking has replaced the original PCB caulking, PCBs may have also leached back into the new caulking at concentrations above the 50-ppm regulatory threshold.

Currently, the USEPA regulates the disposal of this material under the Toxic Substance Control Act (40 CFR761.62). The Toxic Substances Control Act (TSCA) of 1976 authorized U.S. EPA to control substances that were determined to cause unreasonable risk to public health or the environment. In 1979 the U.S. EPA banned the manufacture of new products containing PCBs and developed regulatory requirements for the storage, labeling, use, and disposal of materials

containing PCBs at levels above the regulatory thresholds. In addition, the regulations under TSCA specify allowed or authorized uses of PCBs in certain situations. If a material or item is not specifically listed it is considered unauthorized. The U.S. EPA considers building materials containing PCBs, including caulking with PCB concentrations exceeding 50-ppm to be an unauthorized use. As a result, caulking materials with concentrations above 50-ppm must be managed as PCB wastes and removed following special procedures. PCB concentrations below this threshold of 50 ppm are overseen on the state level and regulated by the State of Connecticut Department of Environmental Protection (DEP). Safe work practices are still necessary when workers are exposed or renovations disturb concentrations below this limit, and the waste generated is required to be properly disposed of properly.

Results

A total of eleven (11) interior and four (4) exterior bulk samples of window frame caulking and glazing were tested from the building. Of the fifteen 15 samples, two (2) interior samples and three (3) exterior samples identified the presence of PCB's greater than the threshold level of 50 parts per million (ppm). However, EPA states that slightly elevated PCB concentrations that are under the 50ppm may still need to be categorized under TSCA. The reasoning is that the caulk may have been at one time above the 50ppm threshold or that new caulk was applied over the original PCB containing caulk and the PCB's leached into the new caulk. Therefore, based on the data, an additional six interior samples require further testing and evaluation before the samples can be considered non-TSCA regulated (see **Appendix C** for analytical results).

Sample Number	Component	Window Type	Location	Result in PPM
10-3/PCB-01	Window Glazing Compound	T	Room 114-interior	4.4
10-3/PCB-02	Window Glazing Compound	E	Room 121-interior	23
10-3/PCB-03	Window Frame Caulk	Unknown	Room 128-interior	17
10-3/PCB-04	Window Glazing Compound	A	Room 201 & 301-Interior	21
10-3/PCB-05	Window Frame Caulk	A	Room 203-interior	280
10-3/PCB-06	Window Glazing Compound	F	Room 204 & 302-interior	26
10-3/PCB-07	Window Frame Caulk	C	Room 220-interior	920
10-3/PCB-08	Window Glazing Compound	P	Room 238-interior	49
10-3/PCB-09	Window Glazing Compound	B/T-J	Room 282 & 286-interior	3.4
10-3/PCB-10	Window Glazing Compound	S	Room 291 & 292-interior	25
10-3/PCB-11	Window Glazing Compound	T-C	Room 321 & 329-interior	23
10-17/PCB-01	Window Frame Caulk	T-C	Room 215 – Exterior	20,000
10-17/PCB-02	Window Frame Caulk	T-A	Façade A – Exterior	58,000
10-17/PCB-03	Window Wrap	TE	Façade C – Exterior	74
10-17/PCB-04	Window Frame Caulk	TJ	Room 274 – Exterior	1.8

Samples listed in bold exceed the 50 ppm threshold.

Conclusion

Initial composite and isolated samples of caulking and glazing compound were obtained from the interior and exterior of the school window systems. Both the interior and exterior samples identified several elevated levels of PCB's in the window frame caulk and window glazing. Both TSCA and non-TSCA concentrations were found. Due to budget restraints, sampling was representative based on window type and building material. Additional testing is needed to properly characterize and isolate PCB and non-PCB containing materials. Due to the high levels of some of the sample results, notification to the EPA is required and removal of the contaminated caulk and glazing is mandatory. Additionally, soil and substrate testing at and around the windows where PCB's were identified is needed in order to accurately identify the extent of the PCB contamination and migration path. Once all additional testing is complete, a PCB Remediation plan must be developed and submitted for approval to the United States Environmental Protection Agency Region 1 office.

Report Written by:



Richard Onofrio
Environmental Consultant

Report Reviewed by:



Jason Pringle
Principal

APPENDIX A

LABORATORY RESULTS – ASBESTOS



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EMSL Proj:
Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-01 241104205-0001	Room 015 - Gray window glazing compound on metal window sash	Gray Non-Fibrous Heterogeneous	<1% Cellulose	98% Non-fibrous (other)	2% Chrysotile
9-29/RO-02 241104205-0002	Room 015 - Gray window glazing compound on metal window sash				Stop Positive (Not Analyzed)
9-29/RO-03 241104205-0003	Room 015 - Cement panel board window sill	Black Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other) <1% Synthetic	100% Non-fibrous (other)	None Detected
9-29/RO-04 241104205-0004	Room 30 - Gray/clear window caulk	Clear Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-05 241104205-0005	Room 30 - Gray/clear window caulk	Silver/Clear Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-06 241104205-0006	Room 30 - Original brittle window glazing compound	Brown/Gray Non-Fibrous Heterogeneous	2% Cellulose <1% Glass <1% Fibrous (other)	98% Non-fibrous (other)	None Detected

Initial report from 10/20/2011 17:32:44

Analyst(s)

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Todd Patrick (36)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-07 241104205-0007	Room 30 - Original brittle window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-08 241104205-0008	Room 114 - Soft gray window glazing compound	Gray/Black Non-Fibrous Heterogeneous	<1% Cellulose <1% Synthetic <1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-09 241104205-0009	Room 114 - Hard original window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-10 241104205-0010	Room 121 - Gray window glazing compound assoc w/ metal window sash	Gray Non-Fibrous Heterogeneous	<1% Cellulose (Glass <1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-11 241104205-0011	Room 121 - Gray window glazing compound assoc w/ metal window sash	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-12 241104205-0012	Room 121 - Cement window sill	Black Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-13 241104205-0013	Room 121 - Cement window sill	Black Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-14 241104205-0014	Room 115 - Gray window frame caulk	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-15 241104205-0015	Room 116 - Gray window frame caulk	Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-16 241104205-0016	Room 115 - Soft black window glazing compound	Black Non-Fibrous Heterogeneous	<1% Cellulose	95% Non-fibrous (other)	5% Chrysotile
9-29/RO-17 241104205-0017	Room 116 - Soft black window glazing compound				Stop Positive (Not Analyzed)

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-18 241104205-0018	Room 115 - Gray grout assoc w/ square glass window panels	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-19 241104205-0019	Room 116 - Gray grout assoc w/ square glass window panels	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-20 241104205-0020	Room 121 - Window frame caulk	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-21 241104205-0021	Room 122 - Black window glazing compound	Black Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-22 241104205-0022	Room 122 - Gray window frame caulk	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-23 241104205-0023	Room 133 - Black/gray window glazing compound	Gray/Black Non-Fibrous Heterogeneous	4% Cellulose <1% Synthetic <1% Fibrous (other)	96% Non-fibrous (other)	<1% Chrysotile

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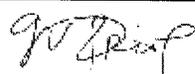
Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-24 241104205-0024	Room 138A - Black window glazing compound	Gray/Black Non-Fibrous Heterogeneous	<1% Fibrous (other) 2% Cellulose	98% Non-fibrous (other)	<1% Chrysotile
9-29/RO-25 241104205-0025	Room 138B - Gray replacement window caulk @ glazing	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-26 241104205-0026	Room 142 - Black replacement caulk @ window glazing	Black Non-Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (other)	<1% Chrysotile
9-29/RO-27 241104205-0027	Room 142 - Hard black compound b/w sill/window sash jct	Black Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-28 241104205-0028	Room 142 - Black factory window glazing compound	Black Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-29 241104205-0029	Room 201 - Gray window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	98% Non-fibrous (other)	2% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-30 241104205-0030	Room 202 - Gray window glazing compound				Stop Positive (Not Analyzed)
9-29/RO-31 241104205-0031	Room 201 - Soft gray replacement caulk used as window glazing material	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-32 241104205-0032	Room 203 - White window frame caulk @ sash/support column jct	Gray/White Non-Fibrous Heterogeneous	<1% Cellulose 2% Fibrous (other)	98% Non-fibrous (other)	<1% Chrysotile
9-29/RO-33 241104205-0033	Room 204 - Gray window glazing compound on metal sash	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-34 241104205-0034	Room 204 - Gray window glazing compound on metal sash	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-35 <i>241104205-0035</i>	Room 204 - Soft-elastic gray replacement window glazing caulk	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-36 <i>241104205-0036</i>	Room 205 - Gray window glazing compound	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-37 <i>241104205-0037</i>	Room 205 - Gray window frame caulk @ sash/mullion seam	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	98% Non-fibrous (other)	2% Chrysotile
9-29/RO-38 <i>241104205-0038</i>	Room 206 - Gray window glazing compound	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-39 <i>241104205-0039</i>	Room 206 - Silver replacement caulk @ window glazing locations	Clear Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-40 <i>241104205-0040</i>	Room 213 - Brown window glazing compound	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-41 241104205-0041	Room 214 - Brown window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-42 241104205-0042	Room 216 - Gray window frame caulk @ sash/block jct	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-43 241104205-0043	Room 220 - Interior window frame caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
9-29/RO-44 241104205-0044	Room 220 - Caulk behind mullion cover	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	90% Non-fibrous (other)	10% Chrysotile
9-29/RO-45 241104205-0045	Room 223 - Hard white interior window glazing compound	Gray/White Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-46 241104205-0046	Room 226 - Brittle white window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected

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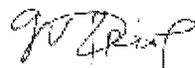
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			% Fibrous	% Non-Fibrous	% Type
9-29/RO-47 241104205-0047	Room 230 - Silver repair window glazing compound	Clear Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
9-29/RO-48 241104205-0048	Room 238 - Brown window glazing compound	Brown/White Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-49 241104205-0049	Room 243 - Brown window frame caulk	Brown Non-Fibrous Heterogeneous	<1% Fibrous (other)	97% Non-fibrous (other)	3% Chrysotile
9-29/RO-50 241104205-0050	Room 243 - Brown window frame caulk				Stop Positive (Not Analyzed)
9-29/RO-51 241104205-0051	Room 243 - Brown caulk applied as window glazing	Brown Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-52 241104205-0052	Room 243 - Brown caulk applied as window glazing	Brown Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected

Initial report from 10/20/2011 17:32:44

Analyst(s)

Edward Leary (48)
Todd Patrick (36)



Gloria V. Oriol, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0.



EMSL Analytical, Inc.
4 Fairfield Boulevard, Wallingford, CT 06492

Phone: 203-284-5948 Fax: (203) 284-5978 Email: wallingfordlab@emsl.com

Attn: **Jason Pringle**
AMC Environmental, LLC
PO Box 423

Customer ID: AMCT50
Customer PO:
Received: 10/20/11 10:15 AM
EMSL Order: 241104205

Stratford, CT 06615

Fax: (203) 375-7344 Phone: (203) 378-5020

Project: **ROGER LUDLOWE, FAIRFIELD ASB101111**

EMSL Proj:
Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-53 241104205-0053	Room 255 - Brittle black window frame caulk	Brown Non-Fibrous Heterogeneous		97% Non-fibrous (other)	3% Chrysotile
9-29/RO-54 241104205-0054	Room 255 - Brittle black window frame caulk				Stop Positive (Not Analyzed)
9-29/RO-55 241104205-0055	Room 255 - Replacement window glazing caulk	Brown Non-Fibrous Heterogeneous	<1% Fibrous (other)	95% Non-fibrous (other)	5% Chrysotile
9-29/RO-56 241104205-0056	Room 266A - Metal window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-57 241104205-0057	Room 266A - Metal window glazing compound	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-58 241104205-0058	Room 269 - Gray window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected

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Project: **ROGER LUDLOWE, FAIRFIELD ASB101111**

EMSL Proj:
Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
9-29/RO-59 <i>241104205-0059</i>	Room 280 - Black replacement tar @ metal sash	Black Non-Fibrous Heterogeneous	<1%	Cellulose Fibrous (other) Synthetic	100% Non-fibrous (other)	None Detected
9-29/RO-60 <i>241104205-0060</i>	Room 282 - Brittle window glazing compound	Gray Non-Fibrous Heterogeneous	<1%	Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-61 <i>241104205-0061</i>	Room 282 - Replacement silicon @ window glazing	Gray Non-Fibrous Heterogeneous	<1%	Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-62 <i>241104205-0062</i>	Room 291 - Gray window glazing compound	Gray Non-Fibrous Heterogeneous	<1%	Fibrous (other) Cellulose	100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-63 <i>241104205-0063</i>	Room 301 - Gray window glazing compound	Gray Non-Fibrous Heterogeneous			100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-64 <i>241104205-0064</i>	Room 302 - Interior gray window glazing compound	Gray Non-Fibrous Heterogeneous	<1%	Fibrous (other)	96% Non-fibrous (other)	4% Chrysotile

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Stratford, CT 06615

Fax: (203) 375-7344 Phone: (203) 378-5020
Project: **ROGER LUDLOWE, FAIRFIELD ASB101111**

Customer ID: AMCT50
Customer PO:
Received: 10/20/11 10:15 AM
EMSL Order: 241104205

EMSL Proj:
Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-65 241104205-0065	Room 321 - Hard gray window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-66 241104205-0066	Room 366 - Soft gray window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	<1% Chrysotile
9-29/RO-67 241104205-0067	Room 369 - Brittle window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	98% Non-fibrous (other)	2% Chrysotile
9-29/RO-68 241104205-0068	Ext. fac A - Soft gray window frame caulk	Gray Non-Fibrous Heterogeneous	<1% Cellulose 2% Fibrous (other)	98% Non-fibrous (other)	None Detected
9-29/RO-69 241104205-0069	Ext. fac A - Soft gray window frame caulk	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-70 241104205-0070	Ext. fac A - Caulk @ window glazing	Clear Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

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EMSL Order: 241104205

EMSL Proj:
Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-71 <i>241104205-0071</i>	Ext. fac A - Caulk @ window glazing	Clear Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-72 <i>241104205-0072</i>	Ext. fac C - Gray window wrap b/w metal panel/at casing	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	93% Non-fibrous (other)	7% Chrysotile
9-29/RO-73 <i>241104205-0073</i>	Ext. fac C - Gray window wrap b/w metal panel/at casing				Stop Positive (Not Analyzed)
9-29/RO-74 <i>241104205-0074</i>	Ext. fac C - Gray window frame caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
9-29/RO-75 <i>241104205-0075</i>	Ext. fac C - Gray window frame caulk	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-77 <i>241104205-0076</i>	Ext. fac D - Typical gray window frame caulk	Silver Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Initial report from 10/20/2011 17:32:44

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 Project: **ROGER LUDLOWE, FAIRFIELD ASB101111**

Customer ID: AMCT50
 Customer PO:
 Received: 10/20/11 10:15 AM
 EMSL Order: 241104205

EMSL Proj:
 Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-78 241104205-0077	Ext. fac D - Window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-79 241104205-0078	Ext. fac D - Brittle caulk at window sill brick mold jct	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-80 241104205-0079	Ext. fac D - Brittle caulk at window sill brick mold jct	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-81 241104205-0080	Ext. fac C - Brittle caulk @ window sill/brick jct	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-82 241104205-0081	Ext. fac C - Gray window frame caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
9-29/RO-83 241104205-0082	Ext. fac A - Brittle window glazing compound @ window sash	Gray Non-Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile

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EMSL Proj:
Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-84 241104205-0083	Ext. fac A - Hard gray window frame caulk	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-85 241104205-0084	Ext. fac A - Thick hard window frame caulk @ brick/window jct	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
9-29/RO-86 241104205-0085	Ext. fac A - Typical gray window frame caulk	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
9-29/RO-87 241104205-0086	Ext. fac A - Caulk @ window sill/concrete transom	Gray Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-88 241104205-0087	Ext. fac A - Clear window glazing compound	Clear Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)	None Detected
9-29/RO-89 241104205-0088	Courtyard - Brittle window frame caulk on metal sash	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected

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 Project: **ROGER LUDLOWE, FAIRFIELD ASB101111**

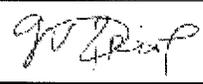
EMSL Proj:
 Analysis Date: 10/20/2011

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
9-29/RO-90 241104205-0089	O/S room 138B - Window sealant b/w sash and casing panel	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other) <1% Cellulose	95% Non-fibrous (other)	5% Chrysotile
9-29/RO-91 241104205-0090	O/S room 138B - Brittle window glazing compound	Gray Non-Fibrous Heterogeneous	<1% Fibrous (other)	100% Non-fibrous (other)	None Detected

Initial report from 10/20/2011 17:32:44

Analyst(s)
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 Todd Patrick (36)


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APPENDIX B

XRF REPORT

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 10/03/11 16:51

INSPECTION FOR: Craig Wiles
Wiles Architect
155 Brooklawn Ave.
Bridgeport, CT

PERFORMED AT: Roger Ludlowe High School
785 Unquowa Rd.
Fairfield, CT

INSPECTION DATE: 10/03/11

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 1326

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002217

Pre-Renovation Lead-Based Paint Screen

SIGNED: *Richard Onofrio*

Date: 10/03/11

Richard Onofrio
LEad Inspector/Risk Assessor
AMC Environmental, LLC
P.O. Box 423
Stratford, CT 06615

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/03/11 Roger Ludlowe High School
 Report Date: 10/25/2011 785 Unquowa Rd.
 Abatement Level: 1.0 Fairfield, CT
 Report No. 10/03/11 16:51
 Total Readings: 28 Actionable: 4
 Job Started: 10/03/11 16:51
 Job Finished: 10/03/11 18:56

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 003 122									
008	C	Window	Lft	mullion	I	Steel	white	1.0	QM
Interior Room 006 142									
021	C	Window	Lft	Sill	P	Concrete	white	1.0	QM
Interior Room 007 201									
025	C	Window	Lft	mullion	P	Steel	blue	1.0	QM
		support column at window frame junction							
024	C	Window	Lft	Sill	P	Stone	black	1.0	QM
Calibration Readings									
----- End of Readings -----									

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/03/11
 Report Date: 10/25/2011
 Abatement Level: 1.0
 Report No. 10/03/11 16:51
 Total Readings: 28
 Job Started: 10/03/11 16:51
 Job Finished: 10/03/11 18:56

Roger Ludlowe High School
 785 Unquowa Rd.
 Fairfield, CT

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 115									
004	D	Window	Lft	Sash	P	metal	milled	0.1	QM
Comment: window type LL									
Interior Room 002 117 bath									
007	D	Window	Lft	lintel	P	Steel	white	0.2	QM
005	D	Window	Lft	Sash	P	metal	milled	0.0	QM
006	D	Window	Lft	Sill	P	Concrete	black	0.0	QM
Interior Room 003 122									
008	C	Window	Lft	mullion	I	Steel	white	1.0	QM
009	C	Window	Lft	Sash	I	Steel	silver	-0.1	QM
010	C	Window	Lft	Sill	I	Concrete	black	0.6	QM
Interior Room 004 132 bath									
012	B	Window	Lft	framework	P	Steel	silver	-0.2	QM
015	B	Window	Lft	lintel	P	Steel	white	0.6	QM
011	B	Window	Lft	Sash	P	Steel	silver	-0.1	QM
014	B	Window	Lft	Sash	P	metal	silver	0.1	QM
013	B	Window	Lft	Sill	P	Concrete	white	0.4	QM
016	B	Window	Lft	Sill	P	Dry wall	white	-0.1	QM
Interior Room 005 138A									
017	A	Window	Lft	mullion	P	Concrete	white	0.5	QM
018	A	Window	Lft	Sash	P	metal	milled	0.2	QM
019	A	Window	Lft	Sill	P	Stone	black	0.3	QM
Interior Room 006 142									
022	C	wall	Lft		P	Concrete	white	0.2	QM
020	C	Window	Lft	Sash	P	Steel	silver	0.3	QM
021	C	Window	Lft	Sill	P	Concrete	white	1.0	QM
Interior Room 007 201									
025	C	Window	Lft	mullion	P	Steel	blue	1.0	QM
support column at window frame junction									
023	C	Window	Lft	Sash	P	metal	silver	0.2	QM
024	C	Window	Lft	Sill	P	Stone	black	1.0	QM
Interior Room 008 204									
028	A	support	Lft	columns	I	Steel	white	0.2	QM
026	A	Window	Lft	Sash	P	Steel	silver	0.2	QM
027	A	Window	Lft	Sill	P	Stone	black	0.6	QM
Calibration Readings									
001								1.0	TC
002								0.9	TC
003								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 10/11/11 09:28

INSPECTION FOR: Craig Wiles
Wiles Architects
155 Brooklawn Ave
Bridgeport, CT

PERFORMED AT: Roger Ludlowe High School
785 Unquowa Rd.
Fairfield, CT

INSPECTION DATE: 10/11/11

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 1326

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002217

Pre-Renovation Lead-Based Paint Screen

SIGNED: 

Date: 10/21/11

Richard Onofrio
Lead Inspector/Risk Assessor
AMC Environmental, LLC
P.O. Box 423
Stratford, CT 06615

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/11/11 Roger Ludlowe High School
 Report Date: 10/25/2011 785 Unquowa Rd.
 Abatement Level: 1.0 Fairfield, CT
 Report No. 10/11/11 09:28
 Total Readings: 62 Actionable: 9
 Job Started: 10/11/11 09:28
 Job Finished: 10/11/11 10:31

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 Number Only									
007	A	Door	Lft	Header	P	metal	beige	2.1	QM
011	B	Ceiling	Lft	rafter	P	Steel	white	4.0	QM
Comment: Building 2 & 3									
Interior Room 002 Number Only									
019	D	column	Lft		P	Steel	white	1.0	QM
Interior Room 005 Number Only									
031	B	columns	Lft		P	Steel	white	3.4	QM
Interior Room 006 Number Only									
033	B	columns	Ctr		P	Steel	white	2.6	QM
		center of room							
034	B	Door	Ctr	Header	P	Steel	beige	2.8	QM
Interior Room 007 B-3									
057	A	posts	Ctr		P	Steel	gray	1.0	QM
		holding up mechanical system/Duct work							
054	A	Door	Rgt	Header	P	Steel	beige	1.0	QM
052	D	columns	Ctr		P	Steel	white	1.0	QM

Calibration Readings

----- End of Readings -----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/11/11 Roger Ludlowe High School
 Report Date: 10/25/2011 785 Unquowa Rd.
 Abatement Level: 1.0 Fairfield, CT
 Report No. 10/11/11 09:28
 Total Readings: 62
 Job Started: 10/11/11 09:28
 Job Finished: 10/11/11 10:31

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 Number Only									
006	A	Door	Lft	Door	P	metal	beige	0.3	QM
007	A	Door	Lft	Header	P	metal	beige	2.1	QM
010	B	gar. door	Lft		P	Wood	white	-0.2	QM
011	B	Ceiling	Lft	rafter	P	Steel	white	4.0	QM
012	B	Ceiling	Lft	panel	P	metal	white	0.3	QM
005	B	Door	Lft	Door	P	metal	beige	0.4	QM
004	B	Door	Lft	Rgt casing	P	metal	beige	0.4	QM
008	D	Wall	L Lft		P	block	beige	0.7	QM
009	D	Wall	U Lft		P	block	white	0.5	QM
Comment: Building 2 & 3									
Interior Room 002 Number Only									
017	B	Window	Lft	Sash	P	metal	brown	0.3	QM
014	C	Wall	L Lft		P	block	beige	0.6	QM
018	C	Wall	L Lft		P	block	gray	0.6	QM
016	C	Door	Lft	Door	P	metal	gray	0.6	QM
015	C	Door	Lft	Rgt casing	P	metal	beige	0.4	QM
013	D	wall	Lft		P	block	white	0.3	QM
019	D	column	Lft		P	Steel	white	1.0	QM
Interior Room 003 Number Only									
021	B	wall	Lft		P	block	white	0.6	QM
020	C	wall	Lft		P	block	white	0.4	QM
023	D	Door	Lft	Door	P	metal	salmon	0.2	QM
022	D	Door	Lft	Header	P	metal	salmon	0.3	QM
Interior Room 004 Number Only									
026	B	Door	Lft	Rgt casing	P	metal	black	0.3	QM
025	C	wall	Lft	partition	P	vinyl	white	0.2	QM
024	D	wall	Lft	partition	P	vinyl	white	0.2	QM
Interior Room 005 Number Only									
028	A	Door	Lft	Door	P	metal	salmon	0.3	QM
027	A	Door	Lft	Rgt casing	P	metal	salmon	0.7	QM
029	B	wall	Lft		P	block	white	0.2	QM
031	B	columns	Lft		P	Steel	white	3.4	QM
032	B	Railing	Ctr	Balusters	P	Steel	red	0.2	QM
030	C	wall	Lft		P	block	white	0.2	QM
Interior Room 006 Number Only									
037	A	wall	Ctr		P	block	white	0.6	QM
036	A	Window	Ctr	Sash	P	Steel	silver	0.0	QM
039	A	Door	Rgt	Door	P	metal	beige	0.3	QM
040	A	Door	Rgt	Rgt casing	P	metal	beige	0.0	QM
041	A	Railing	Rgt	Balusters	P	metal	black	0.3	QM
033	B	columns	Ctr		P	Steel	white	2.6	QM
center of room									
035	B	Door	Ctr	Door	P	Steel	beige	0.6	QM
034	B	Door	Ctr	Header	P	Steel	beige	2.8	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
038	D	wall	Ctr		P	block	beige	0.7	QM
Interior Room 007 B-3									
057	A	posts	Ctr		P	Steel	gray	1.0	QM
		holding up mechanical system/Duct work							
059	A	Wall	L Ctr		P	Concrete	beige	0.5	QM
058	A	Wall	U Ctr		P	block	white	0.3	QM
055	A	Door	Rgt	Door	P	Steel	beige	0.3	QM
054	A	Door	Rgt	Header	P	Steel	beige	1.0	QM
056	A	Stairs	Ctr	Treads	P	metal	gray	0.4	QM
046	B	columns	Ctr		P	Steel	white	0.5	QM
043	B	Wall	L Rgt		P	block	green	0.5	QM
042	B	Wall	U Rgt		P	block	blue	0.7	QM
045	B	Door	Rgt	Door	P	metal	beige	0.0	QM
044	B	Door	Rgt	Rgt casing	P	metal	beige	0.6	QM
048	C	wall	Lft		P	block	white	0.4	QM
049	C	pipes	Lft		P	metal	black	0.6	QM
050	C	pipes	Lft		P	metal	red	0.6	QM
		sprinklers							
047	C	Door	Lft	Header	P	metal	beige	0.5	QM
052	D	columns	Ctr		P	Steel	white	1.0	QM
051	D	Wall	L Lft		P	Concrete	red	0.5	QM
053	D	Railing	Rgt	Railing	P	Steel	yellow	0.5	QM
Calibration Readings									
001								0.9	TC
002								0.9	TC
003								0.8	TC
060								1.0	TC
061								0.9	TC
062								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 10/13/11 16:47

INSPECTION FOR: Craig Wiles
Wiles Architects
155 Brooklawn Ave.
Bridgeport, CT

PERFORMED AT: Roger Ludlowe High School
785 Unquowa Rd.
Fairfield, CT

INSPECTION DATE: 10/13/11

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 1326

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002217

Pre-Renovation Lead-Based Paint Screen

SIGNED: _____

Richard Onofrio

Date: 10/21/11

Richard Onofrio
Lead Inspector/Risk Assessor
AMC Environmental, LLC
P.O. Box 423
Stratford, CT 06615

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/13/11 Roger Ludlowe High School
Report Date: 10/25/2011 785 Unquowa Rd.
Abatement Level: 1.0 Fairfield, CT
Report No. 10/13/11 16:47
Total Readings: 27 Actionable: 0
Job Started: 10/13/11 16:47
Job Finished: 10/13/11 19:13

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
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Calibration Readings

----- End of Readings -----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/13/11
 Report Date: 10/25/2011
 Abatement Level: 1.0
 Report No. 10/13/11 16:47
 Total Readings: 27
 Job Started: 10/13/11 16:47
 Job Finished: 10/13/11 19:13

Roger Ludlowe High School
 785 Unquowa Rd.
 Fairfield, CT

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 243 type B									
006	C	wall	Lft		P	block	white	0.5	QM
004	C	Window	Lft	Sash	P	metal	black	-0.1	QM
005	C	Window	Lft	Sill	P	Stone	black	0.7	QM
Interior Room 269 Number Only									
008	A	Window	Lft	Rgt jamb	P	metal	silver	0.3	QM
007	A	Window	Lft	Sash	P	metal	silver	0.1	QM
009	A	Window	Lft	Sill	P	Dry wall	white	-0.2	QM
010	D	wall	Lft		P	Plaster	white	0.2	QM
Interior Room 287 Number Only									
013	B	wall	Lft		P	block	white	0.2	QM
012	B	Window	Lft	Rgt jamb	P	metal	silver	0.2	QM
011	B	Window	Lft	Sash	P	metal	silver	0.2	QM
Interior Room 291 Number Only									
014	C	wall	Lft		P	block	white	0.4	QM
015	C	Window	Lft	Sash	P	metal	silver	-0.1	QM
016	C	Window	Lft	Sill	P	Stone	black	0.3	QM
Interior Room 301 Number Only									
019	A	wall	Lft		P	block	white	0.2	QM
018	A	Window	Lft	Sash	P	metal	silver	0.1	QM
017	A	Window	Lft	Sill	P	Stone	black	0.2	QM
Interior Room 321 Number Only									
022	C	wall	Lft		P	Brick	white	0.1	QM
020	C	Window	Lft	Sash	P	metal	silver	0.2	QM
021	C	Window	Lft	Sill	P	Stone	black	0.2	QM
Interior Room 329 Number Only									
023	A	wall	Lft		P	block	white	0.2	QM
024	A	Window	Lft	Sash	P	metal	silver	0.2	QM
Interior Room 370 Number Only									
027	C	wall	Lft		P	block	white	0.3	QM
025	C	Window	Lft	Sash	P	metal	silver	0.2	QM
026	C	Window	Lft	Sill	P	Stone	silver	0.2	QM
Calibration Readings									
001								1.0	TC
002								1.0	TC
003								1.0	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01326 - 10/17/11 14:20

INSPECTION FOR: Craig Wiles
Wiles Architects
155 Brooklawn Avenue
Bridgeport, CT

PERFORMED AT: Roger Ludlowe High School
785 Unquowa Rd.
Fairfield, CT

INSPECTION DATE: 10/17/11

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 01326

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002217

Pre-Renovation Lead-Based Paint Screen

SIGNED: _____

Richard Onofrio

Date: _____

10/21/11

Richard Onofrio
Lead Inspector/Risk Assessor
AMC Environmental, LLC
P.O. Box 423
Stratford, CT 06615

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/17/11 Roger Ludlowe High School
Report Date: 10/25/2011 785 Unquowa Rd.
Abatement Level: 1.0 Fairfield, CT
Report No. S#01326 - 10/17/11 14:20
Total Readings: 11 Actionable: 0
Job Started: 10/17/11 14:20
Job Finished: 10/17/11 16:03

Reading										
No.	Wall	Structure	Location	Member	Paint	Substrate	Color	Lead	Mode	
					Cond			(mg/cm ²)		

Calibration Readings

----- End of Readings -----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Craig Wiles

Inspection Date: 10/17/11
 Report Date: 10/25/2011
 Abatement Level: 1.0
 Report No. S#01326 - 10/17/11 14:20
 Total Readings: 11
 Job Started: 10/17/11 14:20
 Job Finished: 10/17/11 16:03

Roger Ludlowe High School
 785 Unquowa Rd.
 Fairfield, CT

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 001 FAC A t-a									
004	A	Window	Lft	Sash	P	metal	milled	0.0	QM
005	A	Window	Lft	Sill	P	metal	milled	-0.2	QM
Interior Room 002 FAC C t-d									
007	C	Window	Lft	Sash	P	metal	milled	0.2	QM
006	C	Window	Lft	Sill	P	metal	milled	0.1	QM
Interior Room 003 FAC A T-J									
008	A	Window	Lft	Sash	P	metal	milled	0.3	QM
009	A	Window	Lft	Sill	P	metal	milled	0.1	QM
Interior Room 004 FAC A T-F									
011	A	Window	Lft	Sash	P	metal	milled	0.2	QM
010	A	Window	Lft	Sill	P	metal	milled	0.4	QM
Calibration Readings									
001								1.0	TC
002								0.9	TC
003								1.0	TC

---- End of Readings ----

APPENDIX C

PCB LABORATORY RESULTS



Thursday, October 20, 2011

Attn: Mr. Jay Pringle
AMC Environmental
PO Box 423
Stratford, CT 06497

Project ID: ROGER LUDLOW HS FAIRFIELD
Sample ID#s: BA88111 - BA88121

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88111

Project ID: ROGER LUDLOW HS FAIRFIELD

Client ID: PCB-01 WGC RM 114 / TYPE T

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1221	ND	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1232	ND	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1242	ND	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1248	ND	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1254	4400	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1260	ND	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1262	ND	980	ug/Kg	10/18/11		MH	3540C/8082
PCB-1268	ND	980	ug/Kg	10/18/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	100		%	10/18/11		MH	30 - 150 %
% TCMX	102		%	10/18/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

October 21, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88112

Project ID: ROGER LUDLOW HS FAIRFIELD

Client ID: PCB-02 WGC RM 121/ TYPE E

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1221	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1232	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1242	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1248	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1254	23000	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1260	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1262	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1268	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
QA/OC Surrogates							
% DCBP	Diluted Out		%	10/19/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/19/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
 October 21, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WFC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88113

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-03 WFC RM 128/ TYPE UNKNOWN

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1221	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1232	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1242	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1248	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1254	17000	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1260	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1262	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1268	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
<u>QA/OC Surrogates</u>							
% DCBP	Diluted Out		%	10/19/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/19/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
 ND=Not detected BDL=Below Detection Level RL=Reporting Level
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Phyllis Shiller, Laboratory Director
 October 21, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88114

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-04 WGC RM 201&301 TYPE A

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
PCB (Soxhlet)							
PCB-1016	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1221	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1232	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1242	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1248	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1254	21000	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1260	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1262	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1268	ND	4000	ug/Kg	10/19/11		MH	3540C/8082
QA/QC Surrogates							
% DCBP	Diluted Out		%	10/19/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/19/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
 October 21, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WFC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88115

Project ID: ROGER LUDLOW HS FAIRFIELD

Client ID: PCB-05 WFC RM 203 / TYPE A

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1221	ND	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1232	ND	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1242	ND	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1248	ND	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1254	*	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1260	*	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1262	ND	47000	ug/Kg	10/19/11		MH	3540C/8082
PCB-1268	ND	47000	ug/Kg	10/19/11		MH	3540C/8082
Total PCBs	280000	47000	ug/Kg	10/19/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	10/19/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/19/11		MH	30 - 150 %

Parameter	Result	RL	Units	Date	Time	By	Reference
-----------	--------	----	-------	------	------	----	-----------

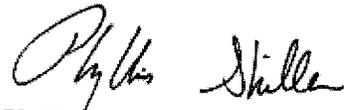
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1254 and 1260.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director

October 21, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88116

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-06 WGC RM 204&302 TYPE F

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1221	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1232	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1242	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1248	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1254	26000	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1260	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1262	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1268	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	10/19/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/19/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
 ND=Not detected BDL=Below Detection Level RL=Reporting Level
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Phyllis Shiller, Laboratory Director
 October 21, 2011



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 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WFC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88117

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-07 WFC RM 220 / TYPE C

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1221	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1232	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1242	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1248	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1254	920000	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1260	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1262	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
PCB-1268	ND	82000	ug/Kg	10/18/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	10/18/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/18/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
 ND=Not detected BDL=Below Detection Level RL=Reporting Level
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Phyllis Shiller, Laboratory Director
 October 21, 2011



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 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88118

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-08 WGC RM 238 / TYPE P

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1221	ND	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1232	ND	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1242	ND	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1248	ND	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1254	4900	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1260	ND	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1262	ND	610	ug/Kg	10/18/11		MH	3540C/8082
PCB-1268	ND	610	ug/Kg	10/18/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	114		%	10/18/11		MH	30 - 150 %
% TCMX	123		%	10/18/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
 ND=Not detected BDL=Below Detection Level RL=Reporting Level
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Phyllis Shiller, Laboratory Director
 October 21, 2011



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 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88119

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-09 WGC RM 282&286 B/T-J

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1221	ND	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1232	ND	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1242	ND	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1248	ND	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1254	3400	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1260	ND	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1262	ND	420	ug/Kg	10/18/11		MH	3540C/8082
PCB-1268	ND	420	ug/Kg	10/18/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	72		%	10/18/11		MH	30 - 150 %
% TCMX	68		%	10/18/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
 October 21, 2011



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 Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report
 October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88120

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-10 WGC RM 291&292 TYPE S

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1221	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1232	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1242	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1248	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1254	25000	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1260	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1262	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1268	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	10/19/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/19/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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 October 21, 2011



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Analysis Report

October 20, 2011

FOR: Attn: Mr. Jay Pringle
 AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB WGC R
 Rush Request:
 P.O.#:

Custody Information

Collected by: RO
 Received by: LDA
 Analyzed by: see "By" below

Date Time
 09/29/11 0:00
 10/15/11 9:30

Laboratory Data

SDG ID: GBA88111
 Phoenix ID: BA88121

Project ID: ROGER LUDLOW HS FAIRFIELD
 Client ID: PCB-11 WGC RM 321+329 / T-C

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/18/11		JL	E160.3
Extraction for PCB	Completed			10/17/11		BB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1221	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1232	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1242	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1248	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1254	23000	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1260	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1262	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
PCB-1268	ND	3800	ug/Kg	10/19/11		MH	3540C/8082
<u>QA/OC Surrogates</u>							
% DCBP	Diluted Out		%	10/19/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/19/11		MH	30 - 150 %

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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 October 21, 2011



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QA/QC Report

October 21, 2011

QA/QC Data

SDG I.D.: GBA88111

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS Rec %	MS Dup Rec %	RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 186976, QC Sample No: BA88111 (BA88111, BA88112, BA88113, BA88114, BA88115, BA88116, BA88117, BA88118, BA88119, BA88120, BA88121)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	98	101	3.0				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	100	103	3.0				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	91	90	94	4.3				30 - 150	30
% TCMX (Surrogate Rec)	92	82	89	8.2				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Phyllis Shiller, Laboratory Director
 October 21, 2011



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: service@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Temp 20 °C Pg 1 of 1

Data Delivery: Fax #: Email: results@phoenixlabs.com

Customer: AMC ENV. LLC
 Address: PO Box 423
Stratford, CT

Project: Regeneration H.S. - Fairfield
 Report to: Jay Pringle
 Invoice to: Erin Pringle

Project P.O.: _____
 Phone #: _____
 Fax #: _____

Client Sample - Information - Identification
 Sampler's Signature: R Onofrio Date: 10/14/11

Analysis Request: SOILS FAIRFIELD

Phoehix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
88111	PC-B-01/WGC/RM 114/Type T		9/29	P.M.
88112	02/WGC/RM 1d1/Type E			
88113	03/WGC/RM 128/Unknown			
88114	04/WGC/RM 201+301/Type A			
88115	05/WGC/RM 203/Type A			
88116	06/WGC/RM 204+302/Type F			
88117	07/WGC/RM 206/Type C			
88118	08/WGC/RM 238/Type P			
88119	09/WGC/RM 282+286B/T-J			
88120	10/WGC/RM 291+292/Type S			
88121	11/WGC/RM 321+329/T-C			

Relinquished by: R Onofrio Accepted by: Della Bella Date: 10/15/11 Time: 9:30

Comments, Special Requirements or Regulations:
All Interior material

Analysis Request	MA	CT/RI	Turnaround:	Date:	Time:
Soil VOA (Methanol) as residue (1720)	<input type="checkbox"/> MCP Cert.	<input type="checkbox"/> RCP Cert.	<input type="checkbox"/> 1 Day*		
GL Soil container () or	<input type="checkbox"/> GW-1	<input type="checkbox"/> GW Protect.	<input type="checkbox"/> 2 Days*		
40 ml VOA Vial (As is) (H2SO4)	<input type="checkbox"/> GW-2	<input type="checkbox"/> GA Mobility	<input type="checkbox"/> 3 Days*		
PL As is (1250ml) (As is) (HCl)	<input type="checkbox"/> GW-3	<input type="checkbox"/> GB Mobility	<input checked="" type="checkbox"/> Standard		
PL HNO3 250ml (1500ml) (1000ml)	<input type="checkbox"/> S-1	<input type="checkbox"/> SW Protect.	<input type="checkbox"/> Other		
PL HNO3 250ml (1500ml) (1000ml)	<input type="checkbox"/> S-2	<input type="checkbox"/> Res. Vol.			
PL HNO3 250ml (1500ml) (1000ml)	<input type="checkbox"/> S-3	<input type="checkbox"/> Ind. Vol.			
Bacteria Bottle	<input type="checkbox"/> MWR eSMART	<input type="checkbox"/> Res. Criteria	<input type="checkbox"/> * SURCHARGE APPLIES		
	<input type="checkbox"/> Other	<input type="checkbox"/> Other			

Data Format: Excel PDF GIS/Key EQUIS Other

Data Package: ASP-A NJ Reduced Deliv. * NJ Hazsite EDD Phoenix Std Report Other

State where samples were collected: CT



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Draft Progress Report

October 24, 2011

FOR: AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB EXT WFR
 Rush Request: RUSH##
 P.O.#:

Custody Information

Collected by: RO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/18/11 0:00
 10/19/11 11:10

Laboratory Data

SDG ID: GBA89159
 Phoenix ID: BA89159

Project ID: RODGER LUDLOW WIND REPLACEMENT

Client ID: PCB-01 EXT WFC TC 05 RM 215

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/20/11		JL	E160.3
Extraction for PCB	Completed			10/19/11		QB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1221	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1232	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1242	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1248	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1254	20000000	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1260	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1262	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1268	ND	8200000	ug/Kg	10/24/11		MH	3540C/8082
<u>QA/OC Surrogates</u>							
% DCBP	Diluted Out		%	10/24/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/24/11		MH	30 - 150 %

Parameter	Result	RL	Units	Date	Time	By	Reference
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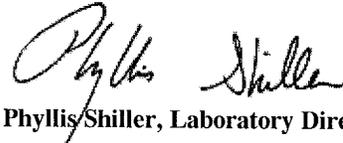
Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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PLEASE NOTE: THIS PROGRESS REPORT IS CONSIDERED PRELIMINARY DATA. THE RESULTS ENTERED HAVE NOT BEEN EXAMINED BY OUR QA/QC DEPARTMENT.



Phyllis Shiller, Laboratory Director

October 24, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Draft Progress Report
 October 24, 2011

FOR: AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB EXT WFR
 Rush Request: RUSH##
 P.O.#:

Custody Information

Collected by: RO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/18/11 0:00
 10/19/11 11:10

Laboratory Data

SDG ID: GBA89159
 Phoenix ID: BA89160

Project ID: RODGER LUDLOW WIND REPLACEMENT

Client ID: PCB-02 EXT WFC TA FACA

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/20/11		JL	E160.3
Extraction for PCB	Completed			10/19/11		QB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1221	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1232	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1242	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1248	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1254	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1260	58000000	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1262	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1268	ND	16000000	ug/Kg	10/24/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	10/24/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/24/11		MH	30 - 150 %

Parameter	Result	RL	Units	Date	Time	By	Reference
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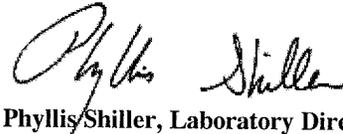
Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

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Phyllis Shiller, Laboratory Director
October 24, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Draft Progress Report

October 24, 2011

FOR: AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB EXT WI
 Rush Request: RUSH##
 P.O.#:

Custody Information

Collected by: RO
 Received by: LB
 Analyzed by: see "By" below

Date Time
 10/18/11 0:00
 10/19/11 11:10

Laboratory Data

SDG ID: GBA89159
 Phoenix ID: BA89161

Project ID: RODGER LUDLOW WIND REPLACEMENT

Client ID: PCB-03 EXT WIND-WRAP TE FACC

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/20/11		JL	E160.3
Extraction for PCB	Completed			10/19/11		QB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1221	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1232	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1242	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1248	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1254	74000	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1260	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1262	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
PCB-1268	ND	33000	ug/Kg	10/24/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	10/24/11		MH	30 - 150 %
% TCMX	Diluted Out		%	10/24/11		MH	30 - 150 %

Project ID: RODGER LUDLOW WIND REPLACEMENT

Phoenix I.D.: BA89161

Client ID: PCB-03 EXT WIND-WRAP TE FACC

Parameter	Result	RL	Units	Date	Time	By	Reference
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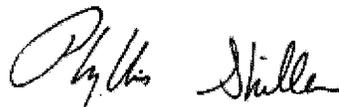
Comments:

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Phyllis Shiller, Laboratory Director

October 24, 2011



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823



Draft Progress Report

October 24, 2011

FOR: AMC Environmental
 PO Box 423
 Stratford, CT 06497

Sample Information

Matrix: SOLID
 Location Code: AMCENV | PCB EXT WFR
 Rush Request: RUSH##
 P.O.#:

Custody Information

Collected by: RO
 Received by: LB
 Analyzed by: see "By" below

Date

10/18/11
 10/19/11

Time

0:00
 11:10

Laboratory Data

SDG ID: GBA89159

Phoenix ID: BA89162

Project ID: RODGER LUDLOW WIND REPLACEMENT

Client ID: PCB-04 EXT WFC TJ 015 RM 275

Parameter	Result	RL	Units	Date	Time	By	Reference
Percent Solid	100	1	%	10/20/11		JL	E160.3
Extraction for PCB	Completed			10/19/11		QB/K	SW3540C
<u>PCB (Soxhlet)</u>							
PCB-1016	ND	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1221	ND	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1232	ND	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1242	ND	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1248	ND	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1254	1800	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1260	ND	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1262	ND	810	ug/Kg	10/24/11		MH	3540C/8082
PCB-1268	ND	810	ug/Kg	10/24/11		MH	3540C/8082
<u>QA/QC Surrogates</u>							
% DCBP	135		%	10/24/11		MH	30 - 150 %
% TCMX	116		%	10/24/11		MH	30 - 150 %

Parameter	Result	RL	Units	Date	Time	By	Reference
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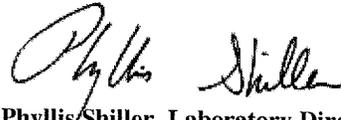
Comments:

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Phyllis Shiller, Laboratory Director
October 24, 2011

APPENDIX D

LAB AND INSPECTOR ACCREDITATIONS

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSPECTOR

RICHARD J. ONOFRIO

LICENSE NO.
000715
CURRENT THROUGH
09/30/12
VALIDATION NO.
03-296720

SIGNATURE

COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

LEAD INSPECTOR RISK ASSESSOR

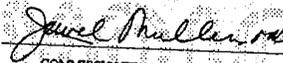
RICHARD J. ONOFRIO

CERTIFICATION NO.
002217
CURRENT THROUGH
09/30/12
VALIDATION NO.
03-296722

SIGNATURE



COMMISSIONER



State of Connecticut, Department of Public Health
Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

EMSL ANALYTICAL, INC. - CT

LOCATED AT 4 Fairfield Blvd. IN Wallingford, CT 06492

AND REGISTERED IN THE NAME OF Gloria Oriol
Gloria Oriol WHO HAS BEEN DESIGNATED

THIS CERTIFICATE IS ISSUED IN THE NAME OF Gloria Oriol WHO HAS BEEN DESIGNATED
BY THE REGISTERED OWNER / AUTHORIZED AGENT TO BE IN CHARGE OF THIS LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS
FOLLOWS:

ASBESTOS
Examination for:
Air - PCM, TEM
Bulk Materials - PLM, TEM
Water - TEM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2013 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 23rd DAY OF September, 2010



Registration No.
PH-0322

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION