

**Fairfield Public Schools**  
**Fairfield, CT 06825**

**TO:** Dr. David Title and Members of the Board of Education

**FROM:** Salvatore Morabito

**DATE:** December 4, 2012

**RE:** Osborn Hill Window Replacement Project  
Hazardous Materials Testing - Gymnasium - Results

This letter is to notify you that the Fairfield Public School District has received the laboratory results for the hazardous materials testing conducted in the gymnasium at Osborn Hill School. This testing was performed to identify potential hazardous building materials that may be present in the school's gymnasium.

The results of these tests will aid in the determination of the scope of remediation work required in this area. Our testing company (AMC Environmental) has notified both the CT DEEP and the EPA of its findings.

The analytical results and diagrams that were attached to the AMC Report will be posted on the Fairfield Public Schools' website.

If you have any questions or concerns regarding these PCB test results or the upcoming clean-up, please feel free to contact me at (203) 255-7363.

Thank you.

c: Meg Brown  
Central Office Administration  
Sands Cleary

**HAZARDOUS MATERIALS INSPECTION**

**Gymnasium Only**

**PERFORMED AT:**

**Osborne Hill School  
767 Stillson Road  
Fairfield, CT**

**PREPARED FOR:**

**Mr. Sal Morabito  
Town of Fairfield  
501 Kings Highway East  
Fairfield, CT 06824**



**ENVIRONMENTAL, LLC**

**PREPARED BY:**

**AMC ENVIRONMENTAL, LLC  
P. O. BOX 423  
STRATFORD, CONNECTICUT 06615  
(203) 378-5020**

**Inspection Date: September 25, 2012 and October 16, 2012  
Report Date: November 30, 2012**

## **1.0 INTRODUCTION**

On September 25, 2012 and October 16, 2012, AMC Environmental, LLC conducted a pre-renovation hazardous materials inspection at the Gymnasium of Osborne Hill School, located at 760 Stillson Road in Fairfield, CT. The purpose of the Inspection was to identify potential hazardous building materials that may be present within the gymnasium of the school. The inspection included materials within the Gymnasium only. 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: Justin Proto  
State of Connecticut licensed Asbestos Inspector  
License # 000697

### **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, building 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 Energy and Environmental Protection (DEEP).

## **2.0 BUILDING DESCRIPTION**

Osborn Hill Elementary School, located at 760 Stillson Road in Fairfield, Connecticut is a single-story; brick clad building of approximately forty-nine thousand five hundred thirty-one (49,531) square feet. The original construction was completed in 1958 and an addition was completed in 1969 and 1997. The focus of this inspection is limited to the gymnasium which was constructed in 1969. The gym is approximately 2800 square feet with twenty-five foot high ceilings. The interior walls are constructed of painted CMU (block). The tectum roof deck and steel roof trusses are exposed and a spray-applied fire proofing is present. Other than skylights, no windows are present within the area. The doors are of metal construction. The gym floor consists of  $\frac{3}{4}$  " hard wood floors that are installed over a wood lathe strip nailer to keep the hardwood flooring up off the concrete slab below. Foam padding is present between the concrete slab and the hardwood floors. Two rooms are also incorporated with the gymnasium; an office and a storage room. Within these two rooms, no hardwood flooring is present. In the office, vinyl composite tile is present on the slab and the storage room is bare concrete. The roof of this portion of the building is flat and consists of a newly installed built-up roof application. The roofing material was not tested at this time and will need to be if demolition to the structure is anticipated.

## **3.0 ASBESTOS CONTAINING MATERIALS**

### **Inspection**

The asbestos-containing materials inspection included interior and exterior areas of the gymnasium within Osborne Hill 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.

During the inspection, the Inspector documents the location, quantity, class, and friability of each suspect material. Friability is an industry term that measures 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, towed, 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 10 % 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 gymnasium inspection, a total of twenty-five (25) samples of suspect ACM were collected, all of which were analyzed by PLM "stop on first positive".

From the twenty-five (25) samples, three (3) types of ACM were identified. The materials identified include interior and exterior door frame caulk, interior expansion joint caulk and mastic associated with the rubber padding on the concrete sub-floor.

The mastic associated with the padding is heavily adhered to both the concrete slab and the padding itself. All materials in contact with the material must be removed and disposed of as

ACM. Furthermore, both materials (foam and associated adhesive) were also tested and characterized as containing PCB in excess of 50 ppm. Therefore the materials must be removed and disposed of as a mixed hazardous waste. PCB's are discussed in more detail in Section 7.0 below.

Similarly, the interior and exterior caulk around the doorframes and expansion joints tested positive for both asbestos and PCB's >50 ppm.

See **Table 1** for a complete list of ACM and their locations. 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**

Inaccessible areas may exist within the structure. If any suspect materials are identified not listed in this report during renovation or demolition activities, work should stop and the materials should be tested. The roof was not tested in this assessment. If demolition of the structure occurs, the roof will need to be characterized for ACM and PCB.

### **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**

Page 1

OSBORN HILL SCHOOL (GYM)

AMC Tracking # ASB091220 ASB101214		Laboratory: EMSL ANALYTICAL		Laboratory Order # 241204007 031233198			
LOCATION(S)	MATERIAL TYPE	SAMPLE #	CLASS	BULK SAMPLE ANALYSIS RESULTS			F/NF
				PLM	PLM PC	TEM NOB	QUANTITY*
Gymnasium	Door Frame Caulk	0925/Jp-07 0925/Jp-08	MISC	5% Chrys		Y	NF
Gymnasium	Expansion Joint Caulk	0925/Jp-09 0925/Jp-10	MISC	7% Chrys		Y	NF
Gymnasium	Mastic associated w/ Rubber sub floor on concrete slab	1016/Jp-01 1016/Jp-02	MISC	2% Chrys		Y	NF
<b>KEY:</b>				<b>Estimated Quantity:</b>			
<b>ANALYTICAL METHODS:</b>							
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					

**\* Please Note: Quantities are estimates. Determination of exact quantities for bidding purposes is the sole responsibility of the contractor**

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**

Osborn Hill School  
Gymnasium

<b>AMC Tracking # ASB091220 ASB101214</b>		<b>Lab: EMSL Analytical</b>	<b>Lab # 241204007 031233198 241204270</b>
<b>Sample #</b>	<b>Sample Location</b>	<b>Sample Description</b>	
0925/JP-01	Gymnasium	Wax on Gym Floor	
0925/JP-02	Gymnasium	Wax on Gym Floor	
0925/JP-03	Gymnasium	Vinyl Cove Base	
0925/JP-04	Gymnasium	Vinyl Cove Base	
0925/JP-05	Gymnasium	Vinyl Cove Base Adhesive	
0925/JP-06	Gymnasium	Vinyl Cove Base Adhesive	
0925/JP-11	Gymnasium	Spray Applied Fireproof	
0925/JP-12	Gymnasium	Spray Applied Fireproof	
0925/JP-13	Gymnasium	DEKTAM Ceiling	
0925/JP-14	Gymnasium	DEKTAM Ceiling	
1016/RO-01	Gymnasium	12x12 Vinyl Floor Tile	
1016/RO-03	Gymnasium	Adhesive associated w/ 12x12 VFT	
1016/RO-05	Gymnasium	Gray Vinyl Cove Base	
1016/RO-07	Gymnasium	Tan Vinyl Cove Base Adhesive	
1016/RO-09	Gymnasium	Gray Levelastic	
1016/RO-10	Gymnasium	Gray Levelastic	

## **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 ( $\text{mg}/\text{cm}^2$ ). 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/cm<sup>2</sup> of lead by XRF requires waste classification analysis.

## **Results**

### **XRF Testing Results**

**Toxic Levels of lead-based paint were identified on four (4) interior surfaces within the gymnasium.** Twenty (20) painted surfaces and components were tested with four (4) actionable (positive or inconclusive) levels of lead. Both poor and intact surfaces were identified. All like components within a given designation are assumed to have the same testing result as the actual component tested.

The computer generated lead-based paint inspection report is provided in **Appendix B**. The report consists of three (3) sections: a coversheet, summary report, and detailed report. Painted surfaces with results greater than 1.0 mg/cm<sup>2</sup> 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.

The surfaces and components identified in this assessment that contain toxic levels of lead-based paint are the steel door lintel and steel I- beams within the gymnasium.

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 surfaces that may be impacted by anticipated renovations or demolition activities. The surfaces that tested positive for toxic levels of lead-based paint included the steel door lintels and the steel I-beams associated with the gymnasium. Because this material is metal and recyclable, it can be held exempt from hazardous waste classification.

If any of the surfaces that were identified as lead-based paint will be disturbed during the project, lead-safe work practices must be used. 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 all suspect building materials that may contain PCB.

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 all potential PCB containing building materials were collected to accurately characterize the gymnasium.

PCB concentrations in original building material can vary from less than 50 parts per million (ppm) up to and exceeding 200,000 ppm. In locations where the original material has been replaced, PCBs may have leached into the surrounding substrate.

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, with PCB concentrations exceeding 50-ppm to be an unauthorized use. As a result, building 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 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.

### **Results**

A total of twenty-seven (27) bulk samples and fourteen (14) substrate samples (core) were obtained from the gymnasium.

Four site visits were made to properly characterize the building materials present within the gymnasium. The dates of these visits are as followed; July 10, July 18, September 25, and October 16 of 2012. All potential building materials were tested within the gymnasium.

Of the twenty-seven (27) bulk samples collected, twenty-five (25) of them contained PCB concentrations above 50 ppm categorizing them as a regulated material.

See **Appendix C** for analytical results.

**1 PPM (parts per million) = 1 mg/Kg**

Sample Number	Component	Location	Result in mg/Kg
<b>Bulk Sampling July 10, 2012</b>			
7-10/PCB-01	<i>Spray applied fireproofing</i>	<i>Gymnasium</i>	<b>30,000</b>
7-10/PCB-02	<i>Foam associated w/ crash pads</i>	<i>Gymnasium</i>	<b>350</b>
7-10/PCB-03	<i>Foam under hardwood floors</i>	<i>Gymnasium</i>	<b>170</b>
7-10/PCB-04	<i>Hardwood floor sealant</i>	<i>Gymnasium</i>	<b>3,300</b>
7-10/PCB-05	<i>Acoustical panel insulation</i>	<i>Gymnasium</i>	<b>350</b>
7-10/PCB-06	<i>Vinyl cove base adhesive</i>	<i>Gymnasium</i>	<b>130</b>
7-10/PCB-07	<i>Wall paint</i>	<i>Gymnasium</i>	<b>1,500</b>
7-10/PCB-08	<i>Expansion caulk</i>	<i>Gymnasium</i>	<b>350</b>
<b>Bulk Sampling July 18, 2012</b>			
7-18/PCB-06	<i>Tectum</i>	<i>Gymnasium</i>	<b>440</b>
7-18/PCB-07	<i>Crash pad foam</i>	<i>Gymnasium</i>	<b>110</b>
7-18/PCB-08	<i>Gym floor sealant</i>	<i>Gymnasium</i>	<b>2,400</b>
7-18/PCB-09	<i>Vinyl cove base adhesive</i>	<i>Gymnasium</i>	<b>340</b>
7-18/PCB-10	<i>Wall paint</i>	<i>Gymnasium</i>	<b>2,600</b>
<b>Bulk Samples September 25, 2012</b>			
9-25/PCB01	<i>Paint</i>	<i>Gymnasium</i>	<b>1,600</b>
9-25/PCB02	<i>Expansion Joint Caulk</i>	<i>Gymnasium</i>	<b>1,000</b>
9-25/PCB03	<i>SAFP@ Joints</i>	<i>Gymnasium</i>	<b>7,500</b>
9-25/PCB04	<i>Wax on Gym Floor</i>	<i>Gymnasium</i>	<b>4,900</b>
9-25/PCB05	<i>Foam under Gym Wood Floor</i>	<i>Gymnasium</i>	<b>320</b>
9-25/PCB06	<i>Vapor Barrier under Foam</i>	<i>Gymnasium</i>	<b>250</b>
9-25/PCB07	<i>Tectum Roof deck</i>	<i>Gymnasium</i>	<b>1,200</b>
9-25/PCB08	<i>Door Frame Caulk</i>	<i>Gymnasium</i>	<b>1,600</b>
9-25/PCB09	<i>Crash Pad Foam</i>	<i>Gymnasium</i>	<b>97</b>
9-25/PCB10	<i>Rubber Sub Floor</i>	<i>Gymnasium</i>	<b>860</b>
<b>PCB Bulk Samples October 16, 2012</b>			
10-16 PCB01	<i>Gym door frame caulk (interior)</i>	<i>Gymnasium</i>	<b>1,180</b>
10-16 PCB02	<i>Mastic assoc. w/ rubber sub floor</i>	<i>Gymnasium</i>	<b>450</b>

Sample Number	Component	Location	Result in mg/Kg
<b>PCB Bulk Samples October 16, 2012 (continued)</b>			
10-16 PCB03	Gym ceiling core	Gymnasium	41
10-16 PCB04	Gym office wall / concrete skim coat	Gymnasium	27

*Samples listed in bold exceed the 50 ppm threshold.*

➡ *Indicates samples documented to be asbestos-containing materials.*

Of the fourteen (14) substrate samples collected, thirteen (13) samples contained PCB concentrations above one (1) ppm. The leaching of PCB into the surrounding substrates at concentrations above 1 ppm also makes this a regulated material.

Sample Number	Component	Location	Result in mg/Kg
<b>PCB Substrate Samples September 25, 2012</b>			
<b>9-25/Sub01-1</b>	<b>Wall "A" CMU</b>	<b>Gymnasium</b>	<b>13</b>
<b>9-25/Sub01-2</b>	<b>Wall "B" CMU</b>	<b>Gymnasium</b>	<b>17</b>
<b>9-25/Sub01-3</b>	<b>Wall "C" CMU</b>	<b>Gymnasium</b>	<b>37</b>
<b>9-25/Sub02-1</b>	<b>Gym Floor core (hardwood)</b>	<b>Gymnasium</b>	<b>42</b>
<b>9-25/PCB11</b>	<b>Tectum Roof Core</b>	<b>Roof</b>	<b>190</b>
<b>PCB Substrate Samples October 16, 2012</b>			
<b>10-16 01-1</b>	<b>CMU @ door frame 2"</b>	<b>Gymnasium</b>	<b>120</b>
<b>10-16 02-1</b>	<b>CMU Mortar @ door frame 2"</b>	<b>Gymnasium</b>	<b>150</b>
<b>10-16 03-1</b>	<b>CMU @ joint 2" Wall B</b>	<b>Gymnasium</b>	<b>91</b>
<b>10-16 03-2</b>	<b>CMU @ joint 2" Wall C</b>	<b>Gymnasium</b>	<b>120</b>
<b>10-16 04-1</b>	<b>CMU Mortar @ joints 2" Wall B</b>	<b>Gymnasium</b>	<b>130</b>
<b>10-16 04-2</b>	<b>CMU Mortar @ joints 2" Wall C</b>	<b>Gymnasium</b>	<b>110</b>
10-16 11-1	Concrete sub floor Cut #1	Gymnasium	0.65
<b>10-16 11-2</b>	<b>Concrete sub floor Cut #2</b>	<b>Gymnasium</b>	<b>3.35</b>
<b>10-16 11-3</b>	<b>Concrete sub floor Cut #3</b>	<b>Gymnasium</b>	<b>14.1</b>

*Samples listed in bold exceed State and Federal threshold of 1 ppm for substrates.*

### Discussion of Results

Previous air samples in other parts of the school prompted testing of the gymnasium. During the initial assessment of the gym, the air and surface dust was found to contain significant



concentrations of PCB's present. Following these activities, bulk samples were taken of suspect building materials throughout the gym and wipe samples were collected in the areas forced air ducts. Virtually all samples documented the presence of PCB. The area itself is considered contaminated and all surfaces have some degree of exposure to PCB. The area has remained closed and isolated from other areas of the school.

Based on the analytical results, several building materials within the gymnasium document the presence of various concentrations of PCB's. Additionally, the assessment also revealed a range of substrate migration associated with the PCB bulk product materials.

The paint on the CMU walls, the door frame and expansion joint caulk, the wax on the wood floor, the spray applied fire proofing, as well as the Tectum roof deck all contain regulated PCB concentrations.

Migration of the PCBs has also occurred on adjacent and surrounding surfaces. The foam crash pads and the acoustical wall tiles have absorbed the airborne PCBs and are considered to be contaminated. The CMU walls document that PCB has leached into it. The wax from the floors has migrated into the wood flooring as well as into the underlying rubber padding. Consequently, the mastic that holds the pad to the concrete floor also documents both PCB and asbestos concentrations. Some concentrations have also been identified in the concrete floor slab. The Tectum roof deck, which is also the exposed interior ceiling, is believed to be cross contaminated by the spray applied fire proofing. A core sample of the material was collected and results show that the concentration of PCB is reduced the further away you go from the exposed surface (spray-on).

Moving forward, a decision must be made to handle the issues associated with the gym. Cost analysis should be performed for both remediating the gym as well as to demolishing the gym entirely. Based off the estimated costs and time constraints for this project, a plan of action can be chosen, developed, and implemented. At minimum, the area will need to be decontaminated, the PCB bulk products be removed, and engineering controls be applied. EPA approval will be required prior to this work commencing.

Report Written by:



Richard Onofrio  
Environmental Consultant

Report Reviewed by:



Jason Pringle  
Principal

**APPENDIX A**

**LABORATORY RESULTS – ASBESTOS**

**EMSL Analytical, Inc.**

4 Fairfield Boulevard, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.emsl.com>[wallingfordlab@emsl.com](mailto:wallingfordlab@emsl.com)

EMSL Order: 241204007

CustomerID: AMCT50

CustomerPO:

ProjectID:

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

**Stratford, CT 06615**Project: **ASB091220/Osborn Hill School Gym**

Phone: (203) 378-5020  
Fax: (203) 375-7344  
Received: 09/27/12 9:35 AM  
Analysis Date: 9/28/2012  
Collected:

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos	
			% Fibrous	% Non-Fibrous	% Type	
0925/JP-01 241204007-0001	Wax on gym floor	Clear Non-Fibrous Heterogeneous	<1% Cellulose <1% Synthetic	100% Non-fibrous (other)		None Detected
0925/JP-02 241204007-0002	Wax on gym floor	Clear Non-Fibrous Heterogeneous	2% Cellulose <1% Glass <1% Synthetic	98% Non-fibrous (other)		None Detected
0925/JP-03 241204007-0003	Vinyl cove base	Black Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)		None Detected
0925/JP-04 241204007-0004	Vinyl cove base	Black Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (other)		None Detected
0925/JP-05 241204007-0005	Vinyl cove base adhesive	Tan Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)		None Detected
0925/JP-06-Tan Adhesive 241204007-0006	Vinyl cove base adhesive	Tan Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)		None Detected
0925/JP-06-Brown Adhesive 241204007-0006A	Vinyl cove base adhesive	Brown Non-Fibrous Heterogeneous	<1% Cellulose <1% Glass <1% Fibrous (other)	100% Non-fibrous (other)		None Detected

**Analyst(s)**

Edward Leary (6)

William Shedrawy (7)

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.

Initial report from 09/28/2012 08:53:30

**EMSL Analytical, Inc.**

4 Fairfield Boulevard, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.emsl.com>[wallingfordlab@emsl.com](mailto:wallingfordlab@emsl.com)

EMSL Order: 241204007

CustomerID: AMCT50

CustomerPO:

ProjectID:

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

**Stratford, CT 06615**Project: **ASB091220/Osborn Hill School Gym**

Phone: (203) 378-5020  
Fax: (203) 375-7344  
Received: 09/27/12 9:35 AM  
Analysis Date: 9/28/2012  
Collected:

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos			Asbestos
			%	Fibrous	% Non-Fibrous	% Type
0925/JP-07 241204007-0007	Door frame caulk	Gray Non-Fibrous Heterogeneous	<1% <1%	Cellulose Fibrous (other)	95% Non-fibrous (other)	5% Chrysotile
0925/JP-08 241204007-0008	Door frame caulk					Stop Positive (Not Analyzed)
0925/JP-09 241204007-0009	Expansion joint caulk	Gray Non-Fibrous Heterogeneous	<1%	Cellulose	93% Non-fibrous (other)	7% Chrysotile
0925/JP-10 241204007-0010	Expansion joint caulk					Stop Positive (Not Analyzed)
0925/JP-11 241204007-0011	Spray applied fire proof	White Non-Fibrous Heterogeneous	20% 2% <1%	Min. Wool Cellulose Fibrous (other)	78% Non-fibrous (other)	None Detected
0925/JP-12 241204007-0012	Spray applied fire proof	White Fibrous Heterogeneous	15% <1% <1%	Min. Wool Cellulose Fibrous (other)	85% Non-fibrous (other)	None Detected
0925/JP-13 241204007-0013	Dektam ceiling	Gray/Tan Non-Fibrous Heterogeneous	35% <1%	Cellulose Fibrous (other)	65% Non-fibrous (other)	None Detected
0925/JP-14 241204007-0014	Dektam ceiling	Tan/White Non-Fibrous Heterogeneous	85%	Cellulose	15% Non-fibrous (other)	None Detected

**Analyst(s)**

Edward Leary (6)

William Shedrawy (7)

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.

Initial report from 09/28/2012 08:53:30

**EMSL Analytical, Inc.**

4 Fairfield Boulevard, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.emsl.com>[wallingfordlab@emsl.com](mailto:wallingfordlab@emsl.com)

EMSL Order: 241204270

CustomerID: AMCT50

CustomerPO:

ProjectID:

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

**Stratford, CT 06615**Project: **OSBORN HILL SCHOOL**

Phone: (203) 378-5020  
Fax: (203) 375-7344  
Received: 10/18/12 10:40 AM  
Analysis Date: 10/19/2012  
Collected:

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16/RO-01 241204270-0001	Gym- 12X12 vinyl floor tile	Gray Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
10-16/RO-03 241204270-0003	Gym- Adh. assoc w/12" VFT	Yellow Non-Fibrous Heterogeneous	<1% Cellulose <1% Synthetic <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
10-16/RO-05 241204270-0005	Gym- Gray vinyl cove base	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
10-16/RO-07 241204270-0007	Gym- Tan vinyl cove base adh.	Tan Non-Fibrous Heterogeneous	<1% Cellulose <1% Fibrous (other)	100% Non-fibrous (other)	None Detected
10-16/RO-09 241204270-0009	Gym- Gray levelastic	Gray Non-Fibrous Heterogeneous	3% Cellulose <1% Fibrous (other) <1% Synthetic	97% Non-fibrous (other)	None Detected
10-16/RO-10 241204270-0010	Gym- Gray levelastic	Gray Non-Fibrous Heterogeneous	3% Cellulose <1% Fibrous (other)	97% Non-fibrous (other)	None Detected

Analyst(s)

Todd Patrick (3)

William Shedrawy (3)

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.

Initial report from 10/19/2012 10:33:40

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018

Phone/Fax: (212) 290-0051 / (212) 290-0058

<http://www.emsl.com>[manhattanlab@emsl.com](mailto:manhattanlab@emsl.com)

EMSL Order: 031233198

CustomerID: AMCT50

CustomerPO:

ProjectID:

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

**Stratford, CT 06615**Project: **ASB 101214- OSBORN GYM**

Phone: (203) 378-5020  
Fax: (203) 375-7344  
Received: 10/19/12 11:12 AM  
Analysis Date: 10/20/2012  
Collected: 10/19/2012

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA  
600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-16 JP 01 031233198-0001	MASTIC ASSOC W/ RUBB SUB FLOOR ON CONCRETE SLAB	Green Non-Fibrous Heterogeneous	3% Cellulose	65% Non-fibrous (other) 30% Matrix	2% Chrysotile
10-16 JP 02 031233198-0002	MASTIC ASSOC W/ RUBB SUB FLOOR ON CONCRETE SLAB				Stop Positive (Not Analyzed)

Analyst(s)

Madisen Nnaoji (1)

James Hall, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 10/20/2012 19:52:31

**APPENDIX B**

**XRF REPORT**

# LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#01326 - 10/17/12 11:16

INSPECTION FOR: Mr. Sal Maributto  
Town of Fairfield  
501 Kings Highway East  
Fairfield, CT 06824

PERFORMED AT: Osborn Hill School  
Gym

INSPECTION DATE: 10/17/12

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

ACTION LEVEL: 1.0 mg/cm<sup>2</sup>

OPERATOR LICENSE: 002204

SIGNED: 

Justin Proto  
Lead Inspector/ Risk Assessor  
AMC Environmental  
622 Clinton Ave.  
Bridgeport, CT

Date: 10-24-12



**SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Mr. Sal Maributto**

Inspection Date: 10/17/12 Osborn Hill School  
Report Date: 10/24/2012 Gym  
Abatement Level: 1.0  
Report No. S#01326 - 10/17/12 11:16  
Total Readings: 20 Actionable: 4  
Job Started: 10/17/12 11:16  
Job Finished: 10/17/12 11:48

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm <sup>2</sup> )	Mode
Interior Room 001 Gymnasium									
006	A	Door	Rgt	Lintel	I	metal	gray	2.6	Std
009	B	i-beam	Rgt		I	Steel	yellow	3.1	QM
010	C	i-beam	Rgt		I	Steel	yellow	2.7	QM
013	D	i-beam	Rgt		I	Steel	yellow	2.5	QM
Calibration Readings									
----- End of Readings -----									

# DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. Sal Maributto

Inspection Date: 10/17/12  
 Report Date: 10/24/2012  
 Abatement Level: 1.0  
 Report No. S#01326 - 10/17/12 11:16  
 Total Readings: 20  
 Job Started: 10/17/12 11:16  
 Job Finished: 10/17/12 11:48

Osborn Hill School  
 Gym

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 003 FAC C									
019	C	Door	Rgt	Door	I	metal	gray	0.0	QM
018	C	Door	Rgt	Rgt casing	I	metal	gray	0.4	QM
Interior Room 001 Gymnasium									
003								0.9	TC
007	A	wall	Rgt		I	block	yellow	-0.1	QM
005	A	Door	Rgt	Door	I	metal	gray	0.0	QM
006	A	Door	Rgt	Lintel	I	metal	gray	2.6	Std
004	A	Door	Rgt	Lft casing	I	metal	gray	0.1	QM
008	B	wall	Rgt		I	block	yellow	0.1	QM
009	B	i-beam	Rgt		I	Steel	yellow	3.1	QM
010	C	i-beam	Rgt		I	Steel	yellow	2.7	QM
011	C	wall	Rgt		I	block	yellow	0.1	QM
020	C	joist	Rgt		I	metal	gray	0.2	QM
012	D	wall	Rgt		I	block	yellow	0.0	QM
013	D	i-beam	Rgt		I	Steel	yellow	2.5	QM
017	D	Floor	Rgt		I	Wood	N/A	0.1	QM
015	D	Door	Rgt	Door	I	metal	yellow	0.2	QM
016	D	Door	Rgt	Lintel	I	metal	yellow	-0.1	QM
014	D	Door	Rgt	Rgt casing	I	metal	yellow	0.1	QM
Calibration Readings									
001								1.0	TC
002								1.0	TC

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

## **APPENDIX C**

### **PCB LABORATORY RESULTS**

October 5, 2012

Sandy Owen  
AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615

Project Location: Osborn Hill School  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 12I0929

Enclosed are results of analyses for samples received by the laboratory on September 28, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615  
ATTN: Sandy Owen

REPORT DATE: 10/5/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 1210929

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Osborn Hill School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
9-25 PCB01	1210929-01	Paint	Paint On CMU	SW-846 8082A	
9-25 PCB02	1210929-02	Caulk	Expansion Joint Caulk	SW-846 8082A	
9-25 PCB03	1210929-03	Product/Solid	SAFD @ Joints	SW-846 8082A	
9-25 PCB04	1210929-04	Product/Solid	Wax On Gym Floor	SW-846 8082A	
9-25 PCB05	1210929-05	Product/Solid	Foam Under Wood Gym Floor	SW-846 8082A	
9-25 PCB06	1210929-06	Product/Solid	Vapor Barrier Under Foam	SW-846 8082A	
9-25 PCB07	1210929-07	Product/Solid	Ceiling	SW-846 8082A	
9-25 PCB08	1210929-08	Caulk	Door Frame Caulk	SW-846 8082A	
9-25 PCB09	1210929-09	Product/Solid	Crash Pad Foam	SW-846 8082A	
9-25 PCB10	1210929-10	Product/Solid	Rubber Sub Floor	SW-846 8082A	
9-25 SUB01-1	1210929-11	Product/Solid	Wall "A" CMU	SW-846 8082A	
9-25 SUB01-2	1210929-12	Product/Solid	Wall "B" CMU	SW-846 8082A	
9-25 SUB01-3	1210929-13	Product/Solid	Wall "C" CMU	SW-846 8082A	
9-25 SUB02-1	1210929-14	Product/Solid	Wood Gym Floor	SW-846 8082A	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8082A**

**Qualifications:**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**Analyte & Samples(s) Qualified:**

**Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**

12I0929-01[9-25 PCB01], 12I0929-02[9-25 PCB02], 12I0929-03[9-25 PCB03], 12I0929-04[9-25 PCB04], 12I0929-05[9-25 PCB05], 12I0929-06[9-25 PCB06], 12I0929-07[9-25 PCB07], 12I0929-08[9-25 PCB08], 12I0929-09[9-25 PCB09], 12I0929-10[9-25 PCB10], 12I0929-13[9-25 SUB01-3], 12I0929-14[9-25 SUB02-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson  
Laboratory Director

Project Location: Osborn Hill School

Sample Description: Paint On CMU

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB01

Sampled: 9/25/2012 00:00

Sample ID: 1210929-01

Sample Matrix: Paint

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1221 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1232 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1242 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1248 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1254 [1]	1600	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1260 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1262 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Aroclor-1268 [1]	ND	82	mg/Kg	200		SW-846 8082A	10/2/12	10/5/12 6:37	JMB
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/5/12 6:37	
Decachlorobiphenyl [2]	*	30-150			S-01			10/5/12 6:37	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/5/12 6:37	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/5/12 6:37	

Project Location: Osborn Hill School

Sample Description: Expansion Joint Caulk

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB02

Sampled: 9/25/2012 00:00

Sample ID: 1210929-02

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1221 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1232 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1242 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1248 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1254 [1]	1000	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1260 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1262 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Aroclor-1268 [1]	ND	43	mg/Kg	250		SW-846 8082A	10/1/12	10/4/12 10:04	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 10:04	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 10:04	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 10:04	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 10:04	



Project Location: Osborn Hill School

Sample Description: SAFD @ Joints

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB03

Sampled: 9/25/2012 00:00

Sample ID: 1210929-03

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1221 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1232 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1242 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1248 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1254 [2]	7500	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1260 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1262 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Aroclor-1268 [1]	ND	950	mg/Kg	10000		SW-846 8082A	10/2/12	10/4/12 12:50	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 12:50	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 12:50	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 12:50	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 12:50	

Project Location: Osborn Hill School

Sample Description: Wax On Gym Floor

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB04

Sampled: 9/25/2012 00:00

Sample ID: 1210929-04

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1221 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1232 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1242 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1248 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1254 [2]	4900	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1260 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1262 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Aroclor-1268 [1]	ND	1000	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:03	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 13:03	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 13:03	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 13:03	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 13:03	

Project Location: Osborn Hill School

Sample Description: Foam Under Wood Gym Floor

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB05

Sampled: 9/25/2012 00:00

Sample ID: 1210929-05

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1221 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1232 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1242 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1248 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1254 [2]	320	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1260 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1262 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Aroclor-1268 [1]	ND	29	mg/Kg	100		SW-846 8082A	10/2/12	10/4/12 13:16	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 13:16	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 13:16	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 13:16	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 13:16	

Project Location: Osborn Hill School

Sample Description: Vapor Barrier Under Foam

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB06

Sampled: 9/25/2012 00:00

Sample ID: 1210929-06

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1221 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1232 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1242 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1248 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1254 [2]	250	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1260 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1262 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Aroclor-1268 [1]	ND	25	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:04	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 10:04	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 10:04	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 10:04	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 10:04	

Project Location: Osborn Hill School

Sample Description: Ceiling

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB07

Sampled: 9/25/2012 00:00

Sample ID: 1210929-07

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1221 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1232 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1242 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1248 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1254 [2]	1200	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1260 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1262 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Aroclor-1268 [1]	ND	190	mg/Kg	2000		SW-846 8082A	10/2/12	10/4/12 13:29	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 13:29	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 13:29	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 13:29	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 13:29	

Project Location: Osborn Hill School

Sample Description: Door Frame Caulk

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB08

Sampled: 9/25/2012 00:00

Sample ID: 1210929-08

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1221 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1232 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1242 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1248 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1254 [2]	1600	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1260 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1262 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Aroclor-1268 [1]	ND	97	mg/Kg	500		SW-846 8082A	10/1/12	10/4/12 10:17	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 10:17	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 10:17	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 10:17	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 10:17	

Project Location: Osborn Hill School

Sample Description: Crash Pad Foam

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB09

Sampled: 9/25/2012 00:00

Sample ID: 1210929-09

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1221 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1232 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1242 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1248 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1254 [2]	97	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1260 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1262 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Aroclor-1268 [1]	ND	9.1	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 10:30	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 10:30	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 10:30	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 10:30	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 10:30	

Project Location: Osborn Hill School

Sample Description: Rubber Sub Floor

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 PCB10

Sampled: 9/25/2012 00:00

Sample ID: 1210929-10

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1221 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1232 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1242 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1248 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1254 [2]	860	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1260 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1262 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Aroclor-1268 [1]	ND	91	mg/Kg	1000		SW-846 8082A	10/2/12	10/4/12 13:41	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 13:41	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 13:41	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 13:41	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 13:41	



Project Location: Osborn Hill School

Sample Description: Wall "A" CMU

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 SUB01-1

Sampled: 9/25/2012 00:00

Sample ID: 1210929-11

Sample Matrix: Product/Solid

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1221 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1232 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1242 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1248 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1254 [2]	13	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1260 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1262 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Aroclor-1268 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 10:55	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	96.1	30-150							
Decachlorobiphenyl [2]	114	30-150							
Tetrachloro-m-xylene [1]	105	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

Project Location: Osborn Hill School

Sample Description: Wall "B" CMU

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 SUB01-2

Sampled: 9/25/2012 00:00

Sample ID: 1210929-12

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1221 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1232 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1242 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1248 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1254 [2]	17	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1260 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1262 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Aroclor-1268 [1]	ND	1.8	mg/Kg	20		SW-846 8082A	10/2/12	10/4/12 11:08	PJG
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	102	30-150							
Decachlorobiphenyl [2]	122	30-150							
Tetrachloro-m-xylene [1]	113	30-150							
Tetrachloro-m-xylene [2]	109	30-150							

Project Location: Osborn Hill School

Sample Description: Wall "C" CMU

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 SUB01-3

Sampled: 9/25/2012 00:00

Sample ID: 1210929-13

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1221 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1232 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1242 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1248 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1254 [2]	37	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1260 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1262 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Aroclor-1268 [1]	ND	4.3	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:21	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 11:21	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 11:21	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 11:21	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 11:21	

Project Location: Osborn Hill School

Sample Description: Wood Gym Floor

Work Order: 1210929

Date Received: 9/28/2012

Field Sample #: 9-25 SUB02-1

Sampled: 9/25/2012 00:00

Sample ID: 1210929-14

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1221 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1232 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1242 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1248 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1254 [2]	42	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1260 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1262 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Aroclor-1268 [1]	ND	4.8	mg/Kg	50		SW-846 8082A	10/2/12	10/4/12 11:34	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 11:34	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 11:34	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 11:34	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 11:34	

**Sample Extraction Data****Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0929-02 [9-25 PCB02]	B059892	0.582	10.0	10/01/12
12I0929-08 [9-25 PCB08]	B059892	0.515	10.0	10/01/12

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0929-01 [9-25 PCB01]	B060010	0.243	10.0	10/02/12

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0929-03 [9-25 PCB03]	B060005	2.10	10.0	10/02/12
12I0929-04 [9-25 PCB04]	B060005	0.200	10.0	10/02/12
12I0929-05 [9-25 PCB05]	B060005	0.700	10.0	10/02/12
12I0929-06 [9-25 PCB06]	B060005	0.400	10.0	10/02/12
12I0929-07 [9-25 PCB07]	B060005	2.10	10.0	10/02/12
12I0929-09 [9-25 PCB09]	B060005	1.10	10.0	10/02/12
12I0929-10 [9-25 PCB10]	B060005	2.20	10.0	10/02/12
12I0929-11 [9-25 SUB01-1]	B060005	2.30	10.0	10/02/12
12I0929-12 [9-25 SUB01-2]	B060005	2.20	10.0	10/02/12
12I0929-13 [9-25 SUB01-3]	B060005	2.30	10.0	10/02/12
12I0929-14 [9-25 SUB02-1]	B060005	2.10	10.0	10/02/12

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B059892 - SW-846 3540C**
**Blank (B059892-BLK1)**

Prepared: 10/01/12 Analyzed: 10/04/12

Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	3.86		mg/Kg	4.00		96.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.65		mg/Kg	4.00		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	4.39		mg/Kg	4.00		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.90		mg/Kg	4.00		97.6	30-150			

**LCS (B059892-BS1)**

Prepared: 10/01/12 Analyzed: 10/04/12

Aroclor-1016	3.9	0.20	mg/Kg	4.00		96.5	40-140			
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		86.8	40-140			
Aroclor-1260	3.7	0.20	mg/Kg	4.00		91.6	40-140			
Aroclor-1260 [2C]	2.8	0.20	mg/Kg	4.00		69.9	40-140			
Surrogate: Decachlorobiphenyl	3.44		mg/Kg	4.00		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.19		mg/Kg	4.00		79.7	30-150			
Surrogate: Tetrachloro-m-xylene	3.80		mg/Kg	4.00		95.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.41		mg/Kg	4.00		85.3	30-150			

**LCS Dup (B059892-BSD1)**

Prepared: 10/01/12 Analyzed: 10/04/12

Aroclor-1016	4.3	0.20	mg/Kg	4.00		107	40-140	10.7	30	
Aroclor-1016 [2C]	3.8	0.20	mg/Kg	4.00		95.6	40-140	9.61	30	
Aroclor-1260	3.9	0.20	mg/Kg	4.00		97.8	40-140	6.53	30	
Aroclor-1260 [2C]	3.0	0.20	mg/Kg	4.00		74.9	40-140	6.93	30	
Surrogate: Decachlorobiphenyl	3.59		mg/Kg	4.00		89.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.39		mg/Kg	4.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene	4.28		mg/Kg	4.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.81		mg/Kg	4.00		95.4	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B060005 - SW-846 3540C**
**Blank (B060005-BLK1)**

Prepared: 10/02/12 Analyzed: 10/03/12

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.756		mg/Kg	1.00		75.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.967		mg/Kg	1.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.809		mg/Kg	1.00		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.882		mg/Kg	1.00		88.2	30-150			

**LCS (B060005-BS1)**

Prepared: 10/02/12 Analyzed: 10/03/12

Aroclor-1016	0.25	0.10	mg/Kg	0.250		99.8	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		99.8	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		98.4	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	0.743		mg/Kg	1.00		74.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.945		mg/Kg	1.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.768		mg/Kg	1.00		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.830		mg/Kg	1.00		83.0	30-150			

**LCS Dup (B060005-BSD1)**

Prepared: 10/02/12 Analyzed: 10/03/12

Aroclor-1016	0.26	0.10	mg/Kg	0.250		103	40-140	3.30	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	3.17	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140	3.08	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140	1.50	30	
Surrogate: Decachlorobiphenyl	0.741		mg/Kg	1.00		74.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.941		mg/Kg	1.00		94.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.762		mg/Kg	1.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.818		mg/Kg	1.00		81.8	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B060010 - SW-846 3540C**
**Blank (B060010-BLK1)**

Prepared: 10/02/12 Analyzed: 10/04/12

Aroclor-1016	ND	0.50	mg/Kg							
Aroclor-1016 [2C]	ND	0.50	mg/Kg							
Aroclor-1221	ND	0.50	mg/Kg							
Aroclor-1221 [2C]	ND	0.50	mg/Kg							
Aroclor-1232	ND	0.50	mg/Kg							
Aroclor-1232 [2C]	ND	0.50	mg/Kg							
Aroclor-1242	ND	0.50	mg/Kg							
Aroclor-1242 [2C]	ND	0.50	mg/Kg							
Aroclor-1248	ND	0.50	mg/Kg							
Aroclor-1248 [2C]	ND	0.50	mg/Kg							
Aroclor-1254	ND	0.50	mg/Kg							
Aroclor-1254 [2C]	ND	0.50	mg/Kg							
Aroclor-1260	ND	0.50	mg/Kg							
Aroclor-1260 [2C]	ND	0.50	mg/Kg							
Aroclor-1262	ND	0.50	mg/Kg							
Aroclor-1262 [2C]	ND	0.50	mg/Kg							
Aroclor-1268	ND	0.50	mg/Kg							
Aroclor-1268 [2C]	ND	0.50	mg/Kg							
Surrogate: Decachlorobiphenyl	8.23		mg/Kg	10.0		82.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.16		mg/Kg	10.0		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	10.9		mg/Kg	10.0		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	10.4		mg/Kg	10.0		104	30-150			

**LCS (B060010-BS1)**

Prepared: 10/02/12 Analyzed: 10/04/12

Aroclor-1016	3.0	0.50	mg/Kg	2.50		118	40-140			
Aroclor-1016 [2C]	3.2	0.50	mg/Kg	2.50		127	40-140			
Aroclor-1260	3.0	0.50	mg/Kg	2.50		121	40-140			
Aroclor-1260 [2C]	2.5	0.50	mg/Kg	2.50		101	40-140			
Surrogate: Decachlorobiphenyl	8.96		mg/Kg	10.0		89.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.87		mg/Kg	10.0		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	10.8		mg/Kg	10.0		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	10.3		mg/Kg	10.0		103	30-150			

**LCS Dup (B060010-BSD1)**

Prepared: 10/02/12 Analyzed: 10/04/12

Aroclor-1016	2.7	0.50	mg/Kg	2.50		110	40-140	7.44	30	
Aroclor-1016 [2C]	3.1	0.50	mg/Kg	2.50		123	40-140	2.78	30	
Aroclor-1260	3.1	0.50	mg/Kg	2.50		123	40-140	1.26	30	
Aroclor-1260 [2C]	2.5	0.50	mg/Kg	2.50		102	40-140	1.21	30	
Surrogate: Decachlorobiphenyl	9.68		mg/Kg	10.0		96.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	9.59		mg/Kg	10.0		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	11.0		mg/Kg	10.0		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	10.4		mg/Kg	10.0		104	30-150			



**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012



**con-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
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Email: info@contestlabs.com  
www.contestlabs.com

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Rev 04.05.12

Company Name: Amc Environmental

Telephone:

Address: 622 Clinton Ave

Project #

Bridgeport, CT

Client PO#

Attention:

DATA DELIVERY (check all that apply)  
☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: Osborn Hall School

Fax #

Sampled By: Justin Pato

Email:

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No  
proposal date

Format: ☐ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER

Collection: ☐ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix Code

Code

Code

Code

Code

Code

Code

Code

Code

Code

Code

Code

Code

Client Sample ID / Description

9-25 PER01 - Paint on Cms

9-25 PER02 - Expansion Joint

9-25 PER03 - SAEP Elongate

9-25 PER04 - w/o on gym floor

9-25 PER05 - Foam under wood

9-25 PER06 - vapor barrier under

9-25 PER07 - Detram Ceiling

9-25 PER08 - Door Frame Caulk

9-25 PER09 - Crash Pad Foam

9-25 PER10 - Rubber Sub Floor

9-25 PER11 - Rubber Sub Floor

9-25 PER12 - Rubber Sub Floor

9-25 PER13 - Rubber Sub Floor

9-25 PER14 - Rubber Sub Floor

9-25 PER15 - Rubber Sub Floor

9-25 PER16 - Rubber Sub Floor

9-25 PER17 - Rubber Sub Floor

Comments:

Relinquished by: (signature)

Date/Time: 9-26-12

Relinquished by: (signature)

Date/Time: 9-27-12

Relinquished by: (signature)

Date/Time: 9-27-12

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Date/Time: 9-27-12

Relinquished by: (signature)

Date/Time: 9-27-12

Relinquished by: (signature)

Turnaround Time

5-7 Day

10-Day

Other

RUSH

12-Hr

14-Hr

16-Hr

18-Hr

20-Hr

24-Hr

30-Hr

36-Hr

48-Hr

72-Hr

96-Hr

120-Hr

144-Hr

Detection Limit Requirements

Massachusetts

Connecticut

Other

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

41 ppm

Is your project MCP or RCP?

MCP Form Required

RCP Form Required

MA State DW Form Required

PWSID #

Accredited

WBEDBE Certified

Accredited

Accredited

Accredited

Accredited

Accredited

Accredited

Accredited

Accredited

Accredited

Accredited

Accredited

Matrix Code:

GW = groundwater

WW = wastewater

DW = drinking water

A = air

S = soil/solid

SL = sludge

O = other

O = other

O = other

O = other

O = other

O = other

O = other

O = other

O = other

O = other

O = other

\*\*Preservation

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

X = Na hydroxide

T = Na thiosulfate

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

\*\*\*Container Code

Dissolved Metals

Field Filtered

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

Lab to Filter

\*\*\*Cont. Code:

A = amber glass

G = glass

P = plastic

ST = sterile

V = vial

S = summa can

T = tedlar bag

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

O = Other

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

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Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87

Page 24 of 26 CRWPDF87



**CON-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

Rev 04.05.12

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page \_\_\_\_ of \_\_\_\_

Company Name: ANC Environmental

Telephone: \_\_\_\_\_

Address: 622 Clinton Ave.

Project # \_\_\_\_\_

Bridgewater, CT

Client PO# \_\_\_\_\_

Attention: \_\_\_\_\_

DATA DELIVERY (check all that apply)  
☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: Osborn Hill School

Fax # \_\_\_\_\_

Sampled By: Justin P. Pade

Email: \_\_\_\_\_

Project Proposal Provided? (for billing purposes)

☐ Yes ☐ No proposal date \_\_\_\_\_

Format: \_\_\_\_\_

☐ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER \_\_\_\_\_

## Collection

Beginning Date/Time \_\_\_\_\_

Ending Date/Time \_\_\_\_\_

☐ "Enhanced Data Package"

Con-Test Lab ID \_\_\_\_\_

Client Sample ID / Description \_\_\_\_\_

Composite \_\_\_\_\_

Grab \_\_\_\_\_

\*Matrix \_\_\_\_\_

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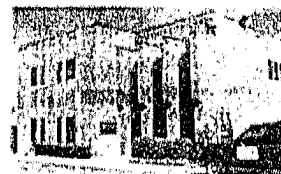
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39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: Amc RECEIVED BY: KKM DATE: 9/27/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 2.9

5) Are there Dissolved samples for the lab to filter?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>3</u>
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>11</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

October 26, 2012

Sandy Owen  
AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615

Project Location: Osborn Hill Gym  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 12J0826

Enclosed are results of analyses for samples received by the laboratory on October 19, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written on a light pink rectangular background.

Lisa A. Worthington  
Project Manager

AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615  
ATTN: Sandy Owen

REPORT DATE: 10/26/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 12J0826

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Osborn Hill Gym

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
10-16 01-1	12J0826-01	Product/Solid	CMU @ Door Frame 2in	SW-846 8082A	
10-16 02-1	12J0826-02	Product/Solid	CMU Mortar @ Door Frame 2in	SW-846 8082A	
10-16 03-1	12J0826-03	Product/Solid	CMU @ Joint 2in Wall B	SW-846 8082A	
10-16 03-2	12J0826-04	Product/Solid	CMU @ Joint 2in Wall C	SW-846 8082A	
10-16 04-1	12J0826-05	Product/Solid	CMU Mortar @ Joints 2in Wall B	SW-846 8082A	
10-16 04-2	12J0826-06	Product/Solid	CMU Mortar @ Joints 2in Wall C	SW-846 8082A	
10-16 11-1	12J0826-07	Product/Solid	Concrete Sub Floor Cut #1	SW-846 8082A	
10-16 11-2	12J0826-08	Product/Solid	Concrete Sub Floor Cut #2	SW-846 8082A	
10-16 11-3	12J0826-09	Product/Solid	Concrete Sub Floor Cut #3	SW-846 8082A	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8082A**

**Qualifications:**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

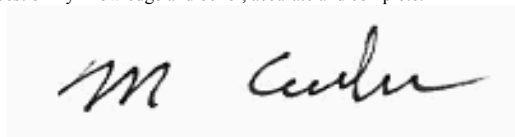
**Analyte & Samples(s) Qualified:**

**Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**

12J0826-01[10-16 01-1], 12J0826-02[10-16 02-1], 12J0826-03[10-16 03-1], 12J0826-04[10-16 03-2], 12J0826-05[10-16 04-1], 12J0826-06[10-16 04-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson  
Laboratory Director



Project Location: Osborn Hill Gym

Sample Description: CMU @ Door Frame 2in

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 01-1

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-01

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1221 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1232 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1242 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1248 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1254 [1]	120	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1260 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1262 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Aroclor-1268 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:37	MJC
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 17:37	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 17:37	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 17:37	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 17:37	

Project Location: Osborn Hill Gym

Sample Description: CMU Mortar @ Door Frame 2in

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 02-1

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-02

Sample Matrix: Product/Solid

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1221 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1232 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1242 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1248 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1254 [1]	150	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1260 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1262 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Aroclor-1268 [1]	ND	17	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 17:50	MJC
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 17:50	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 17:50	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 17:50	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 17:50	

Project Location: Osborn Hill Gym

Sample Description: CMU @ Joint 2in Wall B

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 03-1

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-03

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1221 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1232 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1242 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1248 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1254 [2]	91	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1260 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1262 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Aroclor-1268 [1]	ND	8.7	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:03	MJC
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 18:03	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 18:03	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 18:03	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 18:03	

Project Location: Osborn Hill Gym

Sample Description: CMU @ Joint 2in Wall C

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 03-2

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-04

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1221 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1232 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1242 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1248 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1254 [1]	120	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1260 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1262 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Aroclor-1268 [1]	ND	10	mg/Kg	100		SW-846 8082A	10/22/12	10/25/12 18:15	MJC
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 18:15	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 18:15	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 18:15	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 18:15	

Project Location: Osborn Hill Gym

Sample Description: CMU Mortar @ Joints 2in Wall B

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 04-1

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-05

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1221 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1232 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1242 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1248 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1254 [1]	130	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1260 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1262 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Aroclor-1268 [1]	ND	18	mg/Kg	200		SW-846 8082A	10/22/12	10/26/12 11:55	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/26/12 11:55	
Decachlorobiphenyl [2]	*	30-150			S-01			10/26/12 11:55	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/26/12 11:55	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/26/12 11:55	

Project Location: Osborn Hill Gym

Sample Description: CMU Mortar @ Joints 2in Wall C

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 04-2

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-06

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1221 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1232 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1242 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1248 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1254 [1]	110	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1260 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1262 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Aroclor-1268 [1]	ND	19	mg/Kg	200		SW-846 8082A	10/22/12	10/25/12 18:41	MJC
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 18:41	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 18:41	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 18:41	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 18:41	

Project Location: Osborn Hill Gym

Sample Description: Concrete Sub Floor Cut #1

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 11-1

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-07

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1254 [2]	0.65	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	10/22/12	10/25/12 18:54	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	107	30-150							
Decachlorobiphenyl [2]	111	30-150							
Tetrachloro-m-xylene [1]	106	30-150							
Tetrachloro-m-xylene [2]	110	30-150							

Project Location: Osborn Hill Gym

Sample Description: Concrete Sub Floor Cut #2

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 11-2

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-08

Sample Matrix: Product/Solid

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1221 [1]	ND	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1232 [1]	ND	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1242 [1]	ND	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1248 [1]	ND	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1254 [2]	2.8	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1260 [2]	0.55	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1262 [1]	ND	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Aroclor-1268 [1]	ND	0.53	mg/Kg	5		SW-846 8082A	10/22/12	10/25/12 19:07	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	105	30-150							
Decachlorobiphenyl [2]	102	30-150							
Tetrachloro-m-xylene [1]	109	30-150							
Tetrachloro-m-xylene [2]	109	30-150							



Project Location: Osborn Hill Gym

Sample Description: Concrete Sub Floor Cut #3

Work Order: 12J0826

Date Received: 10/19/2012

Field Sample #: 10-16 11-3

Sampled: 10/16/2012 00:00

Sample ID: 12J0826-09

Sample Matrix: Product/Solid

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1221 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1232 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1242 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1248 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1254 [2]	12	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1260 [2]	2.1	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1262 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Aroclor-1268 [1]	ND	1.7	mg/Kg	20		SW-846 8082A	10/22/12	10/25/12 19:20	MJC
Surrogates	% Recovery	Recovery Limits	Flag						
Decachlorobiphenyl [1]	113	30-150							
Decachlorobiphenyl [2]	105	30-150							
Tetrachloro-m-xylene [1]	111	30-150							
Tetrachloro-m-xylene [2]	101	30-150							

**Sample Extraction Data**

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12J0826-01 [10-16 01-1]	B061342	2.20	10.0	10/22/12
12J0826-02 [10-16 02-1]	B061342	2.30	10.0	10/22/12
12J0826-03 [10-16 03-1]	B061342	2.30	10.0	10/22/12
12J0826-04 [10-16 03-2]	B061342	2.00	10.0	10/22/12
12J0826-05 [10-16 04-1]	B061342	2.20	10.0	10/22/12
12J0826-06 [10-16 04-2]	B061342	2.10	10.0	10/22/12
12J0826-07 [10-16 11-1]	B061342	2.10	10.0	10/22/12
12J0826-08 [10-16 11-2]	B061342	1.90	10.0	10/22/12
12J0826-09 [10-16 11-3]	B061342	2.30	10.0	10/22/12

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B061342 - SW-846 3540C**
**Blank (B061342-BLK1)**

Prepared: 10/22/12 Analyzed: 10/25/12

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	1.13		mg/Kg	1.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.18		mg/Kg	1.00		118	30-150			
Surrogate: Tetrachloro-m-xylene	1.02		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.10		mg/Kg	1.00		110	30-150			

**LCS (B061342-BS1)**

Prepared: 10/22/12 Analyzed: 10/25/12

Aroclor-1016	0.22	0.10	mg/Kg	0.250		87.1	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		98.7	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		99.0	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		94.3	40-140			
Surrogate: Decachlorobiphenyl	1.05		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.960		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.02		mg/Kg	1.00		102	30-150			

**LCS Dup (B061342-BSD1)**

Prepared: 10/22/12 Analyzed: 10/25/12

Aroclor-1016	0.21	0.10	mg/Kg	0.250		82.4	40-140	5.57	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		100	40-140	1.39	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		95.1	40-140	4.00	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250		91.1	40-140	3.43	30	
Surrogate: Decachlorobiphenyl	0.936		mg/Kg	1.00		93.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.967		mg/Kg	1.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.913		mg/Kg	1.00		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.962		mg/Kg	1.00		96.2	30-150			

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B061342 - SW-846 3540C**
**Matrix Spike (B061342-MS1)**
**Source: 12J0826-01**

Prepared: 10/22/12 Analyzed: 10/25/12

Aroclor-1016	0.22	0.10	mg/Kg	0.250	0.0	87.4	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250	0.0	93.7	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250	0.0	102	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250	0.0	98.3	40-140			
Surrogate: Decachlorobiphenyl	0.966		mg/Kg	1.00		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.996		mg/Kg	1.00		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.943		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.987		mg/Kg	1.00		98.7	30-150			

**Matrix Spike Dup (B061342-MSD1)**
**Source: 12J0826-01**

Prepared: 10/22/12 Analyzed: 10/25/12

Aroclor-1016	0.22	0.10	mg/Kg	0.250	0.0	89.7	40-140	2.58	50	
Aroclor-1016 [2C]	0.24	0.10	mg/Kg	0.250	0.0	95.7	40-140	2.10	50	
Aroclor-1260	0.25	0.10	mg/Kg	0.250	0.0	102	40-140	0.0275	50	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250	0.0	96.8	40-140	1.58	50	
Surrogate: Decachlorobiphenyl	0.961		mg/Kg	1.00		96.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.990		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.908		mg/Kg	1.00		90.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.944		mg/Kg	1.00		94.4	30-150			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012



Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

# CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page \_\_\_\_\_ of \_\_\_\_\_

Company Name: AME Environmental

Telephone: \_\_\_\_\_

Address: 622 Clinton Ave

Project # \_\_\_\_\_

Bridgeport CT

Attention: \_\_\_\_\_

Client PO# \_\_\_\_\_

DATA DELIVERY (check all that apply)  
☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: Osborn Hall Gym

Fax # \_\_\_\_\_

Sampled By: Justin P. De

Email: \_\_\_\_\_

Project Proposal Provided? (for billing purposes)  
☐ yes ☐ no

Format: \_\_\_\_\_

☐ OPDF ☐ EXCEL ☐ GIS  
☐ OTHER \_\_\_\_\_

☐ "Enhanced Data Package"

Con-Test Lab ID \_\_\_\_\_

Beginning Date/Time \_\_\_\_\_

Ending Date/Time \_\_\_\_\_

Composite \_\_\_\_\_

Grab \_\_\_\_\_

\*Matrix (see table)

Soxhlet

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Client Sample ID / Description

10-16-01-1 - CMU @ Door

10-16-02-1 - CMU mortar

10-16-03-1 - CMU @ joint 2"

10-16-03-2 - CMU @ joint 2"

10-16-04-1 - CMU mortar @ joints 2" wall 1"

10-16-04-2 - CMU mortar @ joints 2" wall 1"

10-16-05-1 - Concrete sub floor cut 2"

10-16-06-1 - Concrete sub floor cut 2"

10-16-07-1 - Concrete sub floor cut 2"

10-16-08-1 - Concrete sub floor cut 2"

10-16-09-1 - Concrete sub floor cut 2"

10-16-10-1 - Concrete sub floor cut 2"

Comments: \_\_\_\_\_

Turnaround Time

7-Day

10-Day

Other \_\_\_\_\_

RUSH!

Connecticut \_\_\_\_\_

Other \_\_\_\_\_

Massachusetts \_\_\_\_\_

Other \_\_\_\_\_

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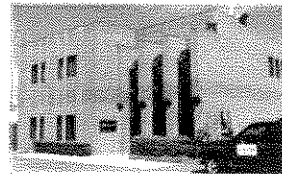
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TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: Amc RECEIVED BY: KKM DATE: 10/19/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☐ Ambient ☒ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 20.2

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>9</u>
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_  
# Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_  
# Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

Doc# 277

Rev. 3 May 2012



October 26, 2012

Sandy Owen  
AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615

Project Location: Osborn Hill Gym  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 12J0831

Enclosed are results of analyses for samples received by the laboratory on October 19, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa A. Worthington  
Project Manager

AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615  
ATTN: Sandy Owen

REPORT DATE: 10/26/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 12J0831

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Osborn Hill Gym

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
10-16 PCB Bulk 01	12J0831-01	Caulk	Gym Door Frame Caulk	SW-846 8082A	
10-16 PCB Bulk 02	12J0831-02	Caulk	Mastic W/ Rubber Sub Floor	SW-846 8082A	
10-16 PCB Bulk 03	12J0831-03	Product/Solid	Gym Ceiling Case	SW-846 8082A	
10-16 PCB Bulk 04	12J0831-04	Product/Solid	Gym Office Wall Plaster	SW-846 8082A	

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**SW-846 8082A****Qualifications:**

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

**Analyte & Samples(s) Qualified:****Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]**

B061372-MS1, B061372-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

**Analyte & Samples(s) Qualified:****Aroclor-1254**

12J0831-02[10-16 PCB Bulk 02]


The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**Analyte & Samples(s) Qualified:****Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]**

12J0831-01[10-16 PCB Bulk 01], 12J0831-02[10-16 PCB Bulk 02], 12J0831-03[10-16 PCB Bulk 03], 12J0831-04[10-16 PCB Bulk 04]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson  
Laboratory Director

Project Location: Osborn Hill Gym

Sample Description: Gym Door Frame Caulk

Work Order: 12J0831

Date Received: 10/19/2012

Field Sample #: 10-16 PCB Bulk 01

Sampled: 10/16/2012 00:00

Sample ID: 12J0831-01

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1221 [1]	ND	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1232 [1]	ND	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1242 [1]	ND	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1248 [1]	ND	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1254 [1]	760	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1260 [2]	420	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1262 [1]	ND	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Aroclor-1268 [1]	ND	89	mg/Kg	500		SW-846 8082A	10/23/12	10/25/12 20:21	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 20:21	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 20:21	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 20:21	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 20:21	

Project Location: Osborn Hill Gym

Sample Description: Mastic W/ Rubber Sub Floor

Work Order: 12J0831

Date Received: 10/19/2012

Field Sample #: 10-16 PCB Bulk 02

Sampled: 10/16/2012 00:00

Sample ID: 12J0831-02

Sample Matrix: Caulk

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1221 [1]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1232 [1]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1242 [1]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1248 [1]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1254 [1]	450	44	mg/Kg	250	O-03	SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1260 [2]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1262 [1]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Aroclor-1268 [1]	ND	44	mg/Kg	250		SW-846 8082A	10/23/12	10/25/12 20:34	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 20:34	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 20:34	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 20:34	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 20:34	

Project Location: Osborn Hill Gym

Sample Description: Gym Ceiling Case

Work Order: 12J0831

Date Received: 10/19/2012

Field Sample #: 10-16 PCB Bulk 03

Sampled: 10/16/2012 00:00

Sample ID: 12J0831-03

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1221 [1]	ND	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1232 [1]	ND	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1242 [1]	ND	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1248 [1]	17	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1254 [1]	24	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1260 [1]	ND	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1262 [1]	ND	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Aroclor-1268 [1]	ND	5.6	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:29	MJC
Surrogates	% Recovery		Recovery Limits		Flag				
Decachlorobiphenyl [1]	*		30-150		S-01		10/25/12 19:29		
Decachlorobiphenyl [2]	*		30-150		S-01		10/25/12 19:29		
Tetrachloro-m-xylene [1]	*		30-150		S-01		10/25/12 19:29		
Tetrachloro-m-xylene [2]	*		30-150		S-01		10/25/12 19:29		

Project Location: Osborn Hill Gym

Sample Description: Gym Office Wall Plaster

Work Order: 12J0831

Date Received: 10/19/2012

Field Sample #: 10-16 PCB Bulk 04

Sampled: 10/16/2012 00:00

Sample ID: 12J0831-04

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1221 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1232 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1242 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1248 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1254 [1]	27	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1260 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1262 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Aroclor-1268 [1]	ND	5.0	mg/Kg	50		SW-846 8082A	10/22/12	10/25/12 19:41	MJC
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/25/12 19:41	
Decachlorobiphenyl [2]	*	30-150			S-01			10/25/12 19:41	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/25/12 19:41	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/25/12 19:41	

**Sample Extraction Data**

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12J0831-01 [10-16 PCB Bulk 01]	B061461	0.562	10.0	10/23/12
12J0831-02 [10-16 PCB Bulk 02]	B061461	0.570	10.0	10/23/12

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12J0831-03 [10-16 PCB Bulk 03]	B061372	1.80	10.0	10/22/12
12J0831-04 [10-16 PCB Bulk 04]	B061372	2.00	10.0	10/22/12



**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B061372 - SW-846 3540C**
**Blank (B061372-BLK1)**

Prepared: 10/22/12 Analyzed: 10/24/12

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.921		mg/Kg	1.00		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.973		mg/Kg	1.00		97.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.907		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.911		mg/Kg	1.00		91.1	30-150			

**LCS (B061372-BS1)**

Prepared: 10/22/12 Analyzed: 10/24/12

Aroclor-1016	0.29	0.10	mg/Kg	0.250		116	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.5	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		98.5	40-140			
Surrogate: Decachlorobiphenyl	0.895		mg/Kg	1.00		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.952		mg/Kg	1.00		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.895		mg/Kg	1.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.895		mg/Kg	1.00		89.5	30-150			

**LCS Dup (B061372-BSD1)**

Prepared: 10/22/12 Analyzed: 10/24/12

Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140	9.76	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		100	40-140	9.67	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.0	40-140	1.54	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		96.6	40-140	1.92	30	
Surrogate: Decachlorobiphenyl	0.881		mg/Kg	1.00		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.930		mg/Kg	1.00		93.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.765		mg/Kg	1.00		76.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.761		mg/Kg	1.00		76.1	30-150			

## QUALITY CONTROL

## Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Batch B061372 - SW-846 3540C

Matrix Spike (B061372-MS1)		Source: 12J0831-04		Prepared: 10/22/12 Analyzed: 10/24/12						
Aroclor-1016	0.53	0.10	mg/Kg	0.250	0.0	212	*	40-140		MS-21
Aroclor-1016 [2C]	2.6	0.10	mg/Kg	0.250	0.0	1020	*	40-140		MS-21
Aroclor-1260	7.3	0.10	mg/Kg	0.250	0.0	2920	*	40-140		MS-21
Aroclor-1260 [2C]	11	0.10	mg/Kg	0.250	0.0	4220	*	40-140		MS-21
Surrogate: Decachlorobiphenyl	0.893		mg/Kg	1.00		89.3		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.953		mg/Kg	1.00		95.3		30-150		
Surrogate: Tetrachloro-m-xylene	0.903		mg/Kg	1.00		90.3		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.906		mg/Kg	1.00		90.6		30-150		

Matrix Spike Dup (B061372-MSD1)		Source: 12J0831-04		Prepared: 10/22/12 Analyzed: 10/24/12							
Aroclor-1016	0.64	0.10	mg/Kg	0.250	0.0	257	*	40-140	19.0	50	MS-21
Aroclor-1016 [2C]	2.3	0.10	mg/Kg	0.250	0.0	933	*	40-140	9.03	50	MS-21
Aroclor-1260	6.5	0.10	mg/Kg	0.250	0.0	2620	*	40-140	11.0	50	MS-21
Aroclor-1260 [2C]	9.2	0.10	mg/Kg	0.250	0.0	3680	*	40-140	13.7	50	MS-21
Surrogate: Decachlorobiphenyl	0.906		mg/Kg	1.00		90.6		30-150			
Surrogate: Decachlorobiphenyl [2C]	0.962		mg/Kg	1.00		96.2		30-150			
Surrogate: Tetrachloro-m-xylene	0.881		mg/Kg	1.00		88.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.892		mg/Kg	1.00		89.2		30-150			

## Batch B061461 - SW-846 3540C

Blank (B061461-BLK1)		Prepared: 10/23/12 Analyzed: 10/25/12								
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	1.98		mg/Kg	4.00		49.4		30-150		
Surrogate: Decachlorobiphenyl [2C]	2.11		mg/Kg	4.00		52.7		30-150		
Surrogate: Tetrachloro-m-xylene	4.18		mg/Kg	4.00		104		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	4.10		mg/Kg	4.00		103		30-150		

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B061461 - SW-846 3540C**
**LCS (B061461-BS1)**

Prepared: 10/23/12 Analyzed: 10/25/12

Aroclor-1016	3.5	0.20	mg/Kg	4.00		87.8	40-140			
Aroclor-1016 [2C]	3.3	0.20	mg/Kg	4.00		83.2	40-140			
Aroclor-1260	2.5	0.20	mg/Kg	4.00		62.1	40-140			
Aroclor-1260 [2C]	2.5	0.20	mg/Kg	4.00		61.9	40-140			
Surrogate: Decachlorobiphenyl	2.23		mg/Kg	4.00		55.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.37		mg/Kg	4.00		59.3	30-150			
Surrogate: Tetrachloro-m-xylene	4.12		mg/Kg	4.00		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.10		mg/Kg	4.00		103	30-150			

**LCS Dup (B061461-BSD1)**

Prepared: 10/23/12 Analyzed: 10/25/12

Aroclor-1016	3.6	0.20	mg/Kg	4.00		91.1	40-140	3.69	30	
Aroclor-1016 [2C]	3.5	0.20	mg/Kg	4.00		86.9	40-140	4.34	30	
Aroclor-1260	2.5	0.20	mg/Kg	4.00		63.7	40-140	2.58	30	
Aroclor-1260 [2C]	2.6	0.20	mg/Kg	4.00		65.1	40-140	5.10	30	
Surrogate: Decachlorobiphenyl	2.04		mg/Kg	4.00		51.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.19		mg/Kg	4.00		54.6	30-150			
Surrogate: Tetrachloro-m-xylene	4.05		mg/Kg	4.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	4.03		mg/Kg	4.00		101	30-150			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
O-03	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012



# con-test

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

www.contestlabs.com

## CHAIN OF CUSTODY RECORD

39 Spruce Street  
East longmeadow, MA 01028

Page \_\_\_\_\_ of \_\_\_\_\_

Company Name: AMC Environmental

Telephone: 1250831

Address: 622 Clarks Ave

Project #

Bridgeport, CT

Client PO#

Attention:

DATA DELIVERY (check all that apply)  
☐ FAX ☐ EMAIL ☐ WEBSITE

Project Location: Osborn Hall Gym

Fax #

Sampled By: Tasha Pate

Email:

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Format:

Proposal date

☐ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER ☐ "Enhanced Data Package"

Con-Test Lab ID

Beginning Date/Time

Ending Date/Time

Composite

Grab

\*Matrix Code

Sample Code

Analysis Requested

Container

Preservation

Container Code

Dissolved Metals

Field Filtered

Lab to Filter

\*\*\*Cont. Code:\*\*\*  
A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tetradar bag  
O=Other

\*\*\*Preservation\*\*\*  
I=Iced  
H=HCL  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=Sodium bisulfate  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

\*\*\*Matrix Code:\*\*\*  
GW=groundwater  
WW=wastewater  
DW=drinking water  
A=air  
S=soil/solid  
SL=sludge  
O=other

Client Sample ID / Description

10-16-12

10-16-12

Composite

Grab

\*Matrix Code

Sample Code

Analysis Requested

Container

Preservation

Container Code

Dissolved Metals

Field Filtered

Lab to Filter

\*\*\*Cont. Code:\*\*\*  
A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tetradar bag  
O=Other

\*\*\*Preservation\*\*\*  
I=Iced  
H=HCL  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=Sodium bisulfate  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

\*\*\*Matrix Code:\*\*\*  
GW=groundwater  
WW=wastewater  
DW=drinking water  
A=air  
S=soil/solid  
SL=sludge  
O=other

01 Gym Desc Fence (Gully)

10-16-12

10-16-12

Composite

Grab

\*Matrix Code

Sample Code

Analysis Requested

Container

Preservation

Container Code

Dissolved Metals

Field Filtered

Lab to Filter

\*\*\*Cont. Code:\*\*\*  
A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tetradar bag  
O=Other

\*\*\*Preservation\*\*\*  
I=Iced  
H=HCL  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=Sodium bisulfate  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

\*\*\*Matrix Code:\*\*\*  
GW=groundwater  
WW=wastewater  
DW=drinking water  
A=air  
S=soil/solid  
SL=sludge  
O=other

02 Gym Desc Fence Sub Elmer

10-16-12

10-16-12

Composite

Grab

\*Matrix Code

Sample Code

Analysis Requested

Container

Preservation

Container Code

Dissolved Metals

Field Filtered

Lab to Filter

\*\*\*Cont. Code:\*\*\*  
A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tetradar bag  
O=Other

\*\*\*Preservation\*\*\*  
I=Iced  
H=HCL  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=Sodium bisulfate  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

\*\*\*Matrix Code:\*\*\*  
GW=groundwater  
WW=wastewater  
DW=drinking water  
A=air  
S=soil/solid  
SL=sludge  
O=other

03 Gym Ceiling Gerc

10-16-12

10-16-12

Composite

Grab

\*Matrix Code

Sample Code

Analysis Requested

Container

Preservation

Container Code

Dissolved Metals

Field Filtered

Lab to Filter

\*\*\*Cont. Code:\*\*\*  
A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tetradar bag  
O=Other

\*\*\*Preservation\*\*\*  
I=Iced  
H=HCL  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=Sodium bisulfate  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

\*\*\*Matrix Code:\*\*\*  
GW=groundwater  
WW=wastewater  
DW=drinking water  
A=air  
S=soil/solid  
SL=sludge  
O=other

04 Office well plaster

10-16-12

10-16-12

Composite

Grab

\*Matrix Code

Sample Code

Analysis Requested

Container

Preservation

Container Code

Dissolved Metals

Field Filtered

Lab to Filter

\*\*\*Cont. Code:\*\*\*  
A=amber glass  
G=glass  
P=plastic  
ST=sterile  
V=vial  
S=summary can  
T=tetradar bag  
O=Other

\*\*\*Preservation\*\*\*  
I=Iced  
H=HCL  
M=Methanol  
N=Nitric Acid  
S=Sulfuric Acid  
B=Sodium bisulfate  
X=Na hydroxide  
T=Na thiosulfate  
O=Other

\*\*\*Matrix Code:\*\*\*  
GW=groundwater  
WW=wastewater  
DW=drinking water  
A=air  
S=soil/solid  
SL=sludge  
O=other

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [Signature] Date/Time: 10/19

Turnaround <sup>††</sup>  
☐ 7-Day  
☐ 10-Day  
☐ Other RUSH <sup>†</sup>

Detection Limit Requirements  
Massachusetts: ELI per

Is your project MCP or RCP?  
☐ MCP Form Required  
☐ RCP Form Required  
☐ MA State DW Form Required PWSID #           

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

Received by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

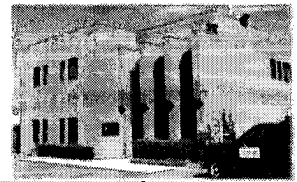
Relinquished by: (signature) [Signature] Date/Time: 10/19

Relinquished by: (signature) [Signature] Date/Time: 10/19

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: AMC RECEIVED BY: KKM DATE: 10/19/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples?

If not, explain:

3) Are all the samples in good condition?

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☐ Ambient ☒ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 20.2

5) Are there Dissolved samples for the lab to filter?

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes No N/A

9) Do all samples have the proper Base pH: Yes No N/A

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	<u>4</u>
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl \_\_\_\_\_ # Methanol \_\_\_\_\_

Doc# 277 # Bisulfate \_\_\_\_\_ # DI Water \_\_\_\_\_

Rev. 3 May 2012 # Thiosulfate \_\_\_\_\_ Unpreserved \_\_\_\_\_

Time and Date Frozen:

October 5, 2012

Sandy Owen  
AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615

Project Location: Osborn Hill School  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 12I0932

Enclosed are results of analyses for samples received by the laboratory on September 28, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager



AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615  
ATTN: Sandy Owen

REPORT DATE: 10/5/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1210932

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Osborn Hill School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
9-25 PCB11	1210932-01	Product/Solid	Dek Tam Root Core	SW-846 8082A	

# CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

## Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

## Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]  
12I0932-01[9-25 PCB11]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian  
Laboratory Manager

Project Location: Osborn Hill School

Sample Description: Dek Tam Root Core

Work Order: 1210932

Date Received: 9/28/2012

Field Sample #: 9-25 PCB11

Sampled: 9/25/2012 00:00

Sample ID: 1210932-01

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1221 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1232 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1242 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1248 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1254 [2]	190	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1260 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1262 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Aroclor-1268 [1]	ND	38	mg/Kg	500		SW-846 8082A	10/2/12	10/4/12 13:54	PJG
Surrogates	% Recovery	Recovery Limits			Flag				
Decachlorobiphenyl [1]	*	30-150			S-01			10/4/12 13:54	
Decachlorobiphenyl [2]	*	30-150			S-01			10/4/12 13:54	
Tetrachloro-m-xylene [1]	*	30-150			S-01			10/4/12 13:54	
Tetrachloro-m-xylene [2]	*	30-150			S-01			10/4/12 13:54	

**Sample Extraction Data**

**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12I0932-01 [9-25 PCB11]	B060005	2.60	10.0	10/02/12

**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B060005 - SW-846 3540C**
**Blank (B060005-BLK1)**

Prepared: 10/02/12 Analyzed: 10/03/12

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.756		mg/Kg	1.00		75.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.967		mg/Kg	1.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.809		mg/Kg	1.00		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.882		mg/Kg	1.00		88.2	30-150			

**LCS (B060005-BS1)**

Prepared: 10/02/12 Analyzed: 10/03/12

Aroclor-1016	0.25	0.10	mg/Kg	0.250		99.8	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		99.8	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		98.4	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	0.743		mg/Kg	1.00		74.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.945		mg/Kg	1.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.768		mg/Kg	1.00		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.830		mg/Kg	1.00		83.0	30-150			

**LCS Dup (B060005-BSD1)**

Prepared: 10/02/12 Analyzed: 10/03/12

Aroclor-1016	0.26	0.10	mg/Kg	0.250		103	40-140	3.30	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	3.17	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140	3.08	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140	1.50	30	
Surrogate: Decachlorobiphenyl	0.741		mg/Kg	1.00		74.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.941		mg/Kg	1.00		94.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.762		mg/Kg	1.00		76.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.818		mg/Kg	1.00		81.8	30-150			

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

# CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Public Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012



**con-test**  
ANALYTICAL LABORATORY

Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com  
www.contestlabs.com

**CHAIN OF CUSTODY RECORD**

39 Spruce Street  
East Longmeadow, MA 01028

Page \_\_\_\_ of \_\_\_\_

Rev 04.05.12

Company Name: AMC Environmental

Telephone: \_\_\_\_\_

Address: Certz Cluster Ave.

Project # \_\_\_\_\_

Attention: Bridgeport, CT

Client PO# \_\_\_\_\_

Project Location: Osborn Hall School

DATA DELIVERY (check all that apply)  
☐ FAX ☐ EMAIL ☐ WEBSITE

Sampled By: John Doe

Fax # \_\_\_\_\_

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Email: \_\_\_\_\_

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

Format: \_\_\_\_\_

Project Proposal Provided? (for billing purposes)  
☐ Yes ☐ No

☐ PDF ☐ EXCEL ☐ OGIS  
☐ OTHER \_\_\_\_\_

Con-Test Lab ID

Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

Composite

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Lab Code

Collection

Enhanced Data Package

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Client Sample ID / Description

Beginning Date/Time

Ending Date/Time

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Lab Code

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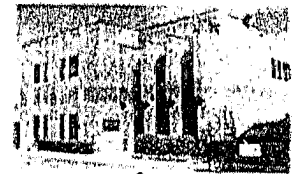
Lab Code

Con-Test Lab ID

</



39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



## Sample Receipt Checklist

CLIENT NAME: Amc RECEIVED BY: KKm DATE: 9/27/12

- 1) Was the chain(s) of custody relinquished and signed? ☒ Yes ☐ No No CoC Included  
2) Does the chain agree with the samples? ☒ Yes ☐ No  
If not, explain:  
3) Are all the samples in good condition? ☒ Yes ☐ No  
If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ☒ Yes ☐ No N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 2.9

- 5) Are there Dissolved samples for the lab to filter? Yes ☐ No ☒  
Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

- 6) Are there any RUSH or SHORT HOLDING TIME samples? Yes ☐ No ☒  
Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

- 8) Do all samples have the proper Acid pH: Yes No ☒ N/A  
9) Do all samples have the proper Base pH: Yes No ☒ N/A  
10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No ☒ N/A

## Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	<u>1</u>
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____	Time and Date Frozen: _____
Doc# 277 # Bisulfate _____ # DI Water _____	
Rev. 3 May 2012 # Thiosulfate _____ Unpreserved _____	

## **APPENDIX D**

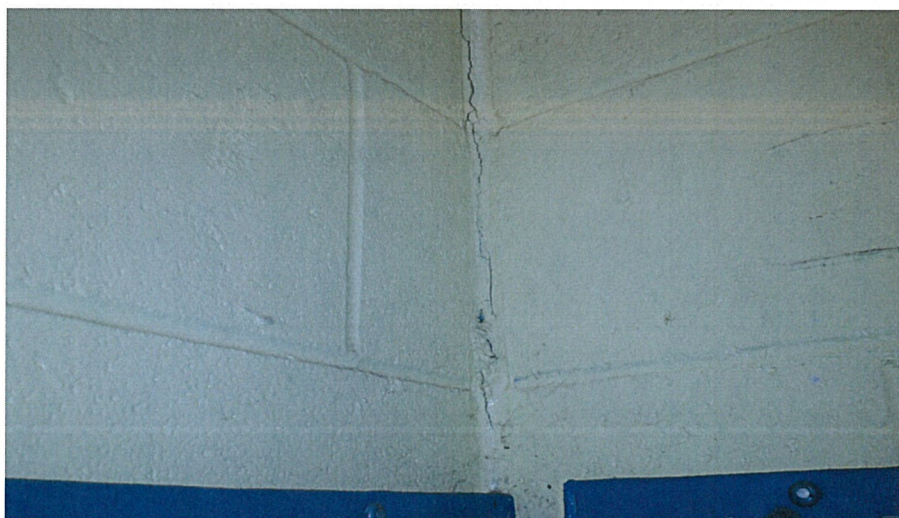
### **PHOTOS**

# Osborn Hill Elementary School Gymnasium









## **APPENDIX E**

### **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.

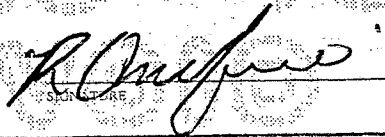
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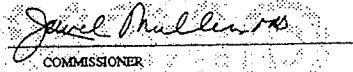
CURRENT THROUGH

09/30/12

VALIDATION NO.

03-469811

  
SIGNATURE

  
COMMISSIONER

**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**

**JUSTIN F. PROTO**

LICENSE NO.

**000697**

CURRENT THROUGH

**03/31/13**

VALIDATION NO.

**03-402476**

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  
09/30/13  
VALIDATION NO.  
03-469813

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

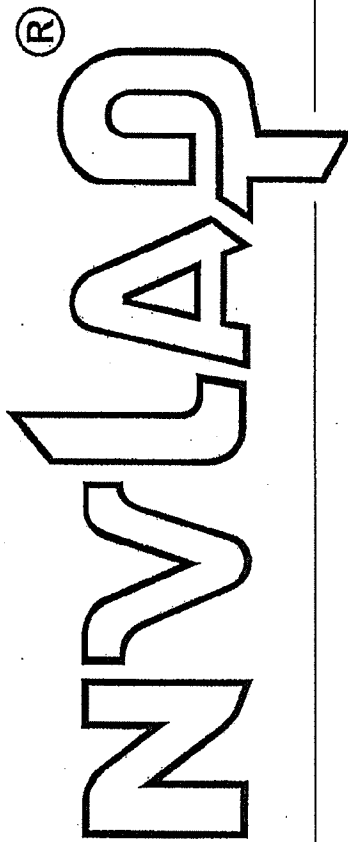
JUSTIN F. PROTO

CERTIFICATION NO.  
002204  
CURRENT THROUGH  
03/31/13  
VALIDATION NO.  
03-402480

SIGNATURE

COMMISSIONER

United States Department of Commerce  
National Institute of Standards and Technology



## Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101048-9

**EMSL Analytical, Inc.**

New York, NY

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2012-07-01 through 2013-06-30

Effective dates



A handwritten signature in dark ink, appearing to read "Mary R. Mudd".

*For the National Institute of Standards and Technology*



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMSL Analytical, Inc.**

307 W. 38th Street

New York, NY 10018

Jim Hall

Phone: 212-290-0051 Fax: 212-290-0058

E-Mail: [ssiegel@emsl.com](mailto:ssiegel@emsl.com)

URL: <http://www.emsl.com>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 101048-9**

***NVLAP Code      Designation / Description***

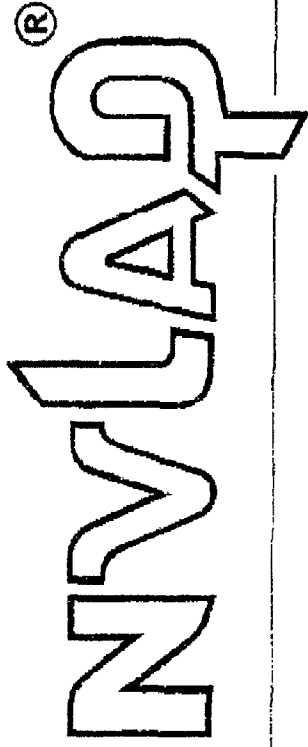
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
--------	--

2012-07-01 through 2013-06-30

*Effective dates*

*For the National Institute of Standards and Technology*

United States Department of Commerce  
National Institute of Standards and Technology



## Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200700-0

**EMSL Analytical, Inc.**  
Wallingford, CT

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:

### **BULK ASBESTOS FIBER ANALYSIS**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).



2012-01-01 through 2012-12-31

Effective dates

*David T. Alderman*  
For the National Institute of Standards and Technology

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

EMSL Analytical, Inc.  
4 Fairfield Boulevard  
Wallingford, CT 06492  
Ms. Gloria Oriol  
Phone: 203-284-5948 Fax: 203-284-5978  
E-Mail: [goriol@emsl.com](mailto:goriol@emsl.com)  
URL: <http://www.emsl.com>

**BULK ASBESTOS FIBER ANALYSIS (PLM)**

**NVLAP LAB CODE 200700-0**

*NVLAP Code    Designation / Description*

18/A01            EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation  
Samples

2012-01-01 through 2012-12-31

*Effective dates*

*David F. Alderman*

*For the National Institute of Standards and Technology*