

Hazardous Building Materials Inspection Report

Tobin Montessori & Vassal Lane Upper Schools
197 Vassal Lane
Cambridge, Massachusetts

Perkins Eastman
Boston, Massachusetts

August 2021



FUSS & O'NEILL

Fuss & O'Neill, Inc.
108 Myrtle Street, Suite 502
Quincy, MA 02171



August 19, 2021

Ms. Carolyn Day, AIA, LEED AP BD+C, WELL AP
Senior Associate
Perkins Eastman
20 Ashburton Place, Floor 8
Boston, MA

**RE: Hazardous Building Materials Inspection
Tobin Montessori & Vassal Lane Upper Schools
197 Vassal Lane, Cambridge, MA
Fuss & O'Neill Project No. 20160717.A30**

Dear Ms. Day:

Enclosed is the hazardous building materials inspection summary report for the inspection conducted at the Tobin Montessori and Vassal Lane Upper Schools located at 197 Vassal Lane in Cambridge, MA.

During the Summers of 2020 and 2021, Fuss & O'Neill, Inc. state-certified Asbestos Inspectors performed inspections for asbestos, polychlorinated biphenyl (PCB)-containing source building materials, mercury-containing flooring, and fluorescent light ballast and mercury-containing equipment prior to building demolition. We also performed a waste characterization for lead of the potential demolition waste stream.

The information summarized in this report is solely for the abovementioned materials only. The work was performed in accordance with our written scope of services dated June 18, 2020.

If you should have any questions regarding the contents of the enclosed report, please do not hesitate to contact me at 617-282-4675, extension 4706.

Sincerely,

Robert C. Mallett
Project Manager

RCM/rs
Enclosure

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1 Introduction

Fuss & O'Neill, Inc. (Fuss & O'Neill) representatives, performed a hazardous building materials inspection prior to proposed demolition activities to occur at the Tobin Montessori and Vassal Lane Upper Schools located at 197 Vassal Lane in Cambridge, Massachusetts (the "Site").

1.1 Scope of Work

The work was performed for Perkins Eastman (the "Client") in accordance with our written scope of services dated June 18, 2020. This report is subject to the limitations presented in *Appendix A*. The scope of work included the following:

- Asbestos-Containing Materials (ACM) Inspection;
- Waste Characterization for Lead;
- Polychlorinated Biphenyl (PCB)-Source Building Materials Sampling;
- Mercury-Containing Flooring Sampling; and
- Fluorescent Light Ballast & Mercury-Containing Equipment Inventory.

Limited destructive investigations were performed at the Client's request. Specific concealed areas that were inspected included the following:

- Void between interior & exterior CMU walls;
- Cantilever section insulation layers;
- Wet walls;
- Ground floor slab;
- Crawlspace slab;
- Foundation exterior;
- Roofing systems;
- Bathroom & kitchen floors; and
- Cooler & freezer.

Fuss & O'Neill did not conduct subsurface investigations to identify concealed suspect materials throughout the subject property.

2 Asbestos Inspection

A property owner or operator must ensure that a thorough asbestos inspection is performed prior to possible disturbance of suspect ACM during renovation or demolition activities. This is a requirement of the United States Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR, Part 61, Subpart M.

During the Summer of 2020 and 2021, Mr. Mallett of Fuss & O'Neill conducted the inspection of visible and accessible areas and the aforementioned concealed areas. Mr. Mallett is a Commonwealth of Massachusetts Department of Labor Standards (MADLS)-certified Asbestos Inspector. Refer to *Appendix B* for copies of the Asbestos Inspector's state certification and EPA accreditation.

2.1 Methodology

The inspection was conducted by visually inspecting for suspect ACM and touching each of the suspect ACM. The suspect ACM were grouped into three EPA NESHAP categories: Friable; Category I Non-Friable, and Category II Non-Friable.

- Friable is defined as material that contains greater than one percent (> 1%) asbestos that, when dry, **can** be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I Non-Friable refers to material that contains > 1% asbestos (i.e., packings, gaskets, resilient floor coverings, and asphalt roofing products) that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.
- Category II Non-Friable refers to any non-friable material excluding Category I materials that contain > 1% asbestos that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.

The suspect ACM were also categorized into their applications including: Thermal System Insulation (TSI), Surfacing ACM, and Miscellaneous ACM. TSI includes those materials used to prevent heat loss/gain or water condensation on mechanical systems. Examples of TSI include, but are not limited to, pipe insulation, boiler insulation, duct insulation, mudded pipe fitting insulation, etc. Surfacing ACM includes those ACM that are sprayed-on, troweled-on, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous ACM include those not listed as TSI or Surfacing ACM, such as sheet flooring, floor tiles, ceiling tiles, caulking, mastics, construction adhesives, etc.

The EPA recommends collecting suspect ACM samples in a manner sufficient to determine asbestos content, and separating suspect ACM into homogenous material types (similar in color, texture, and date of application). The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected for each homogeneous material, but the NESHAP regulation does recommend the use of sampling protocols included in EPA Title 40 CFR, Part 763, Subpart E: Asbestos Hazard Emergency Response Act (AHERA).

The EPA AHERA regulation requires a specific number of samples be collected based on the material type and quantity present. This regulation includes the following protocol:

1. Surfacing Materials (e.g., plaster, spray-applied fireproofing, etc.) shall be collected in a randomly-distributed manner representing each homogenous area based on the overall quantity as follows:
 - a. At least three (3) bulk samples collected from each homogenous area that is less than or equal to 1,000 square feet.
 - b. At least five (5) bulk samples collected from each homogenous area that is greater than 1,000 square feet but less than or equal to 5,000 square feet.
 - c. At least seven (7) bulk samples collected from each homogenous area that is greater than 5,000 square feet.

2. Thermal System Insulation (e.g., pipe insulation, tank insulation, etc.) shall be collected in a randomly-distributed manner representing each homogenous area. At least three (3) bulk samples shall be collected of each homogenous material type. Also, at least one (1) bulk sample of any patching material applied to TSI, presuming the patched area is less than six linear or square feet, shall be collected.
3. Miscellaneous Materials (e.g., floor tile, mastic, cement board, caulking, glazing, etc.) should have at least two (2) bulk samples collected of each homogenous material type. Sample collection shall be conducted in a manner sufficient to determine the asbestos content of the homogenous material type as determined by the inspector.

Suspect ACM samples were collected, and proper chain-of-custody forms were prepared for transmission of collected samples to EMSL Analytical, Inc. (EMSL), for analysis. EMSL is a Commonwealth of Massachusetts-licensed and American Industrial Hygiene Association (AIHA)-accredited Asbestos Analytical Laboratory. Initial asbestos sample analysis was conducted using the EPA Interim Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116) via Polarized Light Microscopy with Dispersion Staining (PLM/DS).

The EPA recommends that non-friable, organically-bound (NOB) materials (e.g., asphaltic-based materials, adhesives, caulking, etc.) undergo further confirmatory analysis utilizing Transmission Electron Microscopy (TEM). Seventeen (17) of the collected NOB samples were analyzed by TEM.

2.2 Results

The EPA, the Occupational Safety and Health Administration (OSHA), and the MADLS define a material that contains > 1% asbestos (by PLM/DS analysis) as an ACM. The Massachusetts Department of Environmental Protection (MassDEP) further defines ACM as materials containing greater than or equal to (\geq) 1% asbestos. MassDEP also defines an asbestos-containing waste material (ACWM) as:

- ACM removed during renovation or demolition activities;
- Materials contaminated by an ACM during renovation or demolition activities; or
- ACM on and/or in facility components that are inoperable or have been taken out of service.

The MassDEP further defines waste material containing any amount of asbestos as an ACWM, which must be managed and disposed of as such. Materials that are identified as “none detected” are specified as not containing asbestos.

Utilizing the EPA, OSHA, MADLS, and MassDEP protocols and criteria, the following materials were determined to be **ACM**:

- Exterior Joint Caulking;
- 12” x 12” Brown Floor Tile & Mastic;
- Interior Door Caulking;
- Interior Door Lite Glazing Compound;
- Interior Joint Caulking;
- Interior & Exterior Window Caulking;
- Exterior Window Glazing Compound;

- Waterproofing;
- Exterior Door Caulking;
- Fire Door Caulking;
- Foundation Waterproofing;
- Joint Compound & Gypsum Board;
- Sink Undercoating;
- Fume Hood Components;
- Stick-Pin Adhesive Associated with HVAC Ducts;
- Roof Perimeter Vapor Barrier; and
- Mudded Pipe Fittings.

Refer to **Table 1**, attached, for the complete list of ACM and non-ACM identified by sample identification, material type, sample location, and asbestos content as part of this inspection. Refer to **Table 2**, attached, for the identified ACM inventory.

Refer to *Appendix C* for the asbestos laboratory analytical reports and chain-of-custody forms.

2.3 Conclusions & Recommendations

Based on visual observations, sample collection, and laboratory analysis, ACM were identified at the Site.

Prior to disturbance, ACM that would likely be impacted by the proposed demolition activities must first be abated by a MADLS-licensed Asbestos Contractor. This is a requirement of MADLS, MassDEP, and EPA NESHAP regulations governing asbestos abatement.

Due to the inability to effectively separate some types of multi-layered ACM from non-ACM, these materials are considered asbestos-contaminated and must be managed as ACWM for removal and disposal purposes.

If suspect materials are encountered during demolition activities that are not identified in this report as being non-ACM, they shall be assumed to be ACM until laboratory analysis indicates otherwise.

3 Waste Characterization for Lead

A waste is a solid or liquid material that serves no further purpose. A waste is defined by EPA to be hazardous if it contains certain properties that could pose dangers to human health and the environment after it is discarded. Wastes that are ignitable, corrosive, reactive, or toxic are regulated under the EPA Hazardous Waste Regulations. TCLP is a method that extracts the compounds of interest in a standard way simulating landfill conditions (EPA Title 40 CFR, Part 261).

3.1 Sample Collection Methodology

Fuss & O'Neill collected representative aliquots of various LBP-coated building components throughout the building. Material substrates such as brick, concrete, and wood were segregated in accordance with LBP screening data. Representative aliquots were collected of the individual substrates/surfaces and composited based on their respective quantities into a single sample. The composite sample was analyzed by TCLP for lead as a representation of the total demolition waste stream.

EMSL analyzed the composite sample. EMSL is a Commonwealth of Massachusetts-certified laboratory. The sample was analyzed using EPA Method SW-846 (Extraction Method 1311).

3.2 Results

In total, one composite sample was collected and analyzed. The EPA Resource Conservation and Recovery Act (RCRA) regulations defines toxic concentrations for lead which is commonly identified in paint to greater than five milligrams per liter (> 5.0 mg/L), or parts per million (ppm).

The analytical results of the representative composite sample indicates the waste leaches lead at less than 5.0 mg/L and is therefore, not classified as a hazardous waste. Refer to *Appendix D* for the TCLP lead laboratory analytical report and chain-of-custody form.

3.3 Conclusion

Based on the TCLP laboratory analytical results of the representative waste stream composite sample, the waste generated during building demolition would **not** be classified by EPA and MassDEP as hazardous waste.

4 Polychlorinated Biphenyls (PCBs) Bulk Sample Analysis

4.1 Background

Sampling of suspect PCB-containing building materials is presently not mandated by the EPA. However, significant liability risk exists for improperly disposing of PCB-containing waste materials. Recent knowledge and awareness of PCBs within matrices such as caulking, glazing compounds, paints, adhesives and ceiling tiles has become more prevalent, especially amongst remediation contractors, waste haulers, and disposal facilities.

Many property owners have become subject to large changes in schedule, scope, and costs as a result of failure to identify these possible contaminants prior to renovation or demolition. We recommended this testing as part of the work. This information serves as useful to significant impact and potential requirements for planning required by the EPA, which must be implemented if PCBs are identified at a project site.

The EPA requirements apply and require removal of PCBs once identified, regardless of project intent as an unauthorized use of PCBs. Therefore, if buildings are to remain for reuse and PCBs are identified, the EPA still requires PCB material removal once it is determined that PCBs are present. In addition to identification of source materials containing PCBs, if PCBs are present at certain concentrations, additional sampling and analysis of adjacent surfaces in contact with PCB sources, or which may have been contaminated from a source of PCBs (e.g., soil), must also be performed or remediated.

EPA requirements apply only if PCBs are present in concentrations above a specified level. Presently, PCB-containing materials at concentrations equal to or greater than (\geq) 50 parts per million (ppm), or equivalent units of milligrams per kilogram (mg/kg) are regulated. Note that materials containing greater than or equal to (\geq) 1 ppm, but less than ($<$) 50 ppm, may also be regulated unless proven to be an “Excluded PCB Product”. The definition of an Excluded PCB Product includes those products, or source of the products, containing $<$ 50 ppm concentration PCBs that were legally manufactured, processed, distributed in commerce, or used before October 1, 1984.

4.2 Methodology

Sampling involved removal of bulk product materials (source materials) using hand tools to submit in bulk form for analysis. Fuss & O'Neill used disposable tools to collect these samples. The sampling tools were discarded after each individual sample was collected to avoid potential sample cross-contamination. Each sample was individually containerized, labeled, preserved with ice, and delivered to Con-Test Laboratories (Con-Test) of East Longmeadow, Massachusetts using proper chain-of-custody forms. The analytical method for analysis included extraction Method 3540C (Soxhlet) and analysis Method SW-846 8082.

4.3 Results

Utilizing the EPA protocol and criteria, the following materials were determined to contain PCB concentrations greater than 50 PPM:

- Interior & Exterior Window Caulking;
- Interior Joint Caulking; and
- Glue Daubs Associated with Rigid Wall Insulation.

Refer to **Table 3** attached for the complete list of PCB-containing and non-PCB-containing materials identified by sample identification, material type, sample location, PCB concentration, and associated substrate as part of this inspection.

Refer to *Appendix E* for laboratory analytical reports and chain-of-custody forms.

4.4 Conclusions & Recommendations

Interior and exterior window caulking, interior joint caulking, and glue daubs associated with rigid insulation shall be disposed of as PCB-Bulk Product Waste.

5 Mercury Flooring Sampling & Waste Characterization

5.1 Background

Rubberlike polyurethane floors have used phenyl mercuric acetate (PMA) catalyst to facilitate the curing process during floor installation since the 1960s. PMA breaks down and releases odorless, colorless mercury vapor.

5.2 Methodology

One bulk sample was collected along the edge of the floor system. The floor sample was analyzed by Con-Test of East Longmeadow, Massachusetts. The samples were analyzed for total and TCLP mercury. Total mercury was determined utilizing the SW-846 7471B method. TCLP analysis was performed using the SW-846 7470A method.

TCLP is a sample extraction method for chemical analysis to simulate leaching through a landfill regarding disposal. Mercury waste disposal is deemed hazardous at or above 0.2 mg/L and is regulated under RCRA, as defined by 40 CFR 261.

5.3 Results

The gym flooring was determined to contain 230 mg/kg of mercury and leaches at 1.3 mg/L.

Refer to *Appendix F* for the mercury laboratory reports.

5.4 Conclusions & Recommendations

The total mercury laboratory analysis indicates that mercury is present in the floor system, and the TCLP analysis indicates the flooring leaches mercury above the EPA RCRA threshold of 0.2 mg/L. Any waste material generated during the flooring removal must be disposed of as mercury hazardous waste.

6 Fluorescent Light Ballasts & Mercury-Containing Equipment

6.1 Fluorescent Light Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Light ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as “No PCBs” must be assumed to contain PCBs unless proven otherwise by quantitative analysis. Capacitors in fluorescent light ballasts labeled as non-PCB-containing may contain diethylhexyl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen, and is listed under RCRA and the Superfund Law as a hazardous waste. Therefore, Superfund liability exists for landfilling both PCB- and DEHP-containing light ballasts. These listed materials are considered hazardous waste under RCRA and require special handling and disposal considerations.

6.2 Mercury-Containing Equipment

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of liquid mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by EPA RCRA regulations.

6.3 Results

Fuss & O'Neill performed a visual inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts at the Site. The inspection involved visually inspecting labels on representative light ballasts to identify manufacture dates and labels indicating “No PCBs”. Ballasts manufactured after 1991 were not listed as PCB- or DEHP-containing ballasts and were not quantified for disposal. An in-place inventory of the fluorescent lamps/tubes and other mercury-containing equipment was completed concurrently.

During this inspection, approximately 1,565 DEHP-containing fluorescent light ballasts and 3,150 mercury-containing light tubes were identified at the Site.

6.4 Conclusions & Recommendations

DEHP-containing fluorescent light ballasts and mercury-containing equipment were identified at the Site during this inspection.

Fluorescent light ballasts marked as “No PCBs” with date labels indicating manufacture prior to 1991 are presumed to contain DEHP. DEHP-containing ballasts must be segregated for proper packaging, transporting, and disposal as non-PCB hazardous waste. Note that disposal requirements for DEHP-containing ballasts are slightly varied, and disposal costs are slightly less, when compared to PCB-containing light ballasts.

According to the EPA, mercury-containing equipment is characterized as a hazardous waste and mercury lamps/tubes are characterized as a Universal Waste. The mercury-containing equipment and fluorescent lamps/tubes identified at the Site must be recycled, reclaimed, or disposed of as hazardous waste or Universal Waste prior to disturbance.

This report is not intended to be utilized as a bidding or a project specification document.

Reviewed by:



Robert C. Mallett
Project Manager



Dustin A. Diedricksen
Associate/Department Manager

Tables

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Tobin Montessori & Vassal Lane Schools
Cambridge, MA

Perkins Eastman Architects, Inc.
 August 2021
 Fuss & O'Neill Reference No. 20160717.A30

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
01A-RM-0707	Tan Exterior Joint Caulking	Cat 2 NF	Exterior South Entrance	5% Chrysotile	
01B-RM-0707	Tan Exterior Joint Caulking	Cat 2 NF	Exterior South Entrance	Pos Stop	
02A-RM-0707	Tan Glue Daubs Associated with Tectum Ceiling Panel	Non-ACM	First Floor Cafeteria	ND	TEM
02B-RM-0707	Tan Glue Daubs Associated with Tectum Ceiling Panel	Non-ACM	First Floor Cafeteria	ND	
03A-RM-0707	Tan Tectum Ceiling Panels	Non-ACM	First Floor Cafeteria	ND	
03B-RM-0707	Tan Tectum Ceiling Panels	Non-ACM	First Floor Cafeteria	ND	
04A-RM-0707	4" Black Vinyl Baseboard	Non-ACM	First Floor Cafeteria	ND	
04B-RM-0707	4" Black Vinyl Baseboard	Non-ACM	First Floor Cafeteria	ND	
05A-RM-0707	Tan Adhesive Associated with 04	Non-ACM	First Floor Cafeteria	ND	
05B-RM-0707	Tan Adhesive Associated with 04	Non-ACM	First Floor Cafeteria	ND	
06A-RM-0707	12" x 12" Brown Floor Tile	Cat 1 NF	First Floor Cafeteria	3% Chrysotile	
06B-RM-0707	12" x 12" Brown Floor Tile	Cat 1 NF	First Floor Cafeteria	Pos Stop	
07A-RM-0707	Black Adhesive Associated with 12" x 12" Brown Floor Tile	Cat 1 NF	First Floor Cafeteria	10% Chrysotile	
07B-RM-0707	Black Adhesive Associated with 12" x 12" Brown Floor Tile	Cat 1 NF	First Floor Cafeteria	Pos Stop	
08A-RM-0707	Gray Top of Door Caulking	Cat 2 NF	First Floor Cafeteria	5% Chrysotile	
08B-RM-0707	Gray Top of Door Caulking	Cat 2 NF	First Floor Cafeteria	Pos Stop	
09A-RM-0707	Tan Tectum Wall Panel Adhesive	Non-ACM	First Floor Cafeteria	ND	
09B-RM-0707	Tan Tectum Wall Panel Adhesive	Non-ACM	First Floor Cafeteria	ND	
10A-RM-0707	Gray Caulking CMU to Concrete	Cat 2 NF	First Floor Cafeteria	7% Chrysotile	
10B-RM-0707	Gray Caulking CMU to Concrete	Cat 2 NF	First Floor Cafeteria	Pos Stop	
11A-RM-0707	Brown Interior Window Glazing Compound	Non-ACM	First Floor Cafeteria	ND	
11B-RM-0707	Brown Interior Window Glazing Compound	Non-ACM	First Floor Cafeteria	ND	
12A-RM-0707	Gray Interior Window Glazing Compound	Cat 2 NF	First Floor Cafeteria	3% Chrysotile	
12B-RM-0707	Gray Interior Window Glazing Compound	Cat 2 NF	First Floor Cafeteria	Pos Stop	
13A-RM-0707	Tan Adhesive Associated with Wood Strapping	Non-ACM	First Floor Cafeteria	ND	
13B-RM-0707	Tan Adhesive Associated with Wood Strapping	Non-ACM	First Floor Cafeteria	ND	
14A-RM-0707	Black Through Wall Flashing Felt	Non-ACM	Exterior Auditorium	ND	
14B-RM-0707	Black Through Wall Flashing Felt	Non-ACM	Exterior East	ND	
14C-RM-0707	Black Through Wall Flashing Felt	Non-ACM	Exterior	ND	
15A-RM-0707	Black Through Wall Flashing Mastic	Non-ACM	Exterior Auditorium	ND	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
15B-RM-0707	Black Through Wall Flashing Mastic	Non-ACM	Exterior East	ND	
15C-RM-0707	Black Through Wall Flashing Mastic	Non-ACM	Exterior	ND	
16A-RM-0707	Black Mastic on Auditorium Structural Concrete	Cat 2 NF	Exterior Auditorium	10% Chrysotile	
16B-RM-0707	Black Mastic on Auditorium Structural Concrete	Cat 2 NF	Exterior Auditorium	Pos Stop	
17A-RM-0707	Brown Exterior Window Caulking	Cat 2 NF	Exterior East	5% Chrysotile	
17B-RM-0707	Brown Exterior Window Caulking	Cat 2 NF	Exterior East	Pos Stop	
18A-RM-0707	White Exterior Door Caulking	Cat 2 NF	Exterior East	7% Chrysotile	
18B-RM-0707	White Exterior Door Caulking	Cat 2 NF	Exterior East	Pos Stop	
19A-RM-0707	Green Glue Daub Associated with Exterior Wall Insulation	Non-ACM	Exterior East	ND	
19B-RM-0707	Green Glue Daub Associated with Exterior Wall Insulation	Non-ACM	Exterior East	ND	TEM
20A-RM-0707	Black Foundation Waterproofing	Cat 2 NF	Exterior North	12% Chrysotile	
20B-RM-0707	Black Foundation Waterproofing	Cat 2 NF	Exterior North	Pos Stop	
21A-RM-0707	Green Glue on Insulation	Non-ACM	Basement B-Section Crawlspace	ND	TEM
21B-RM-0707	Green Glue on Insulation	Non-ACM	Basement B-Section Crawlspace	ND	
22A-RM-0707	4" Tan Baseboard	Non-ACM	Third Floor 315	ND	
22B-RM-0707	4" Tan Baseboard	Non-ACM	Third Floor 315	ND	
22A1A-RM-0707	Light Brown Adhesive Associated with 4" Tan Baseboard	Non-ACM	Third Floor 315	ND	
22A1B-RM-0707	Light Brown Adhesive Associated with 4" Tan Baseboard	Non-ACM	Third Floor 315	ND	
23A-RM-0707	12" x 12" Brown/Pink Floor Tile	Non-ACM	Third Floor 315	ND	
23B-RM-0707	12" x 12" Brown/Pink Floor Tile	Non-ACM	Second Floor 216	ND	
24A-RM-0707	Brown Mastic Associated with 12" x 12" Brown/Pink Floor Tile	Non-ACM	Third Floor 315	ND	TEM
24B-RM-0707	Brown Mastic Associated with 12" x 12" Brown/Pink Floor Tile	Non-ACM	Second Floor 216	ND	
25A-RM-0707	Off-White Glue underneath Countertop	Non-ACM	Third Floor 315	ND	
25B-RM-0707	Off-White Glue underneath Countertop	Non-ACM	Third Floor 315	ND	
26A-RM-0707	White Joint Compound	Cat 2 NF	Third Floor 315	2% Chrysotile	
26B-RM-0707	White Joint Compound	Cat 2 NF	Second Floor 216	Pos Stop	
27A-RM-0707	4" Black Baseboard underneath Cabinet	Non-ACM	Third Floor 315	ND	
27B-RM-0707	4" Black Baseboard underneath Cabinet	Non-ACM	Third Floor 315	ND	
28A-RM-0707	Tan Adhesive Associated with 4" Black Baseboard underneath Cabinet	Non-ACM	Third Floor 315	ND	
28B-RM-0707	Tan Adhesive Associated with 4" Black Baseboard underneath Cabinet	Non-ACM	Third Floor 315	ND	
29A-RM-0707	Black Window Caulking	Cat 2 NF	Third Floor 315	5% Chrysotile	
29B-RM-0707	Black Window Caulking	Cat 2 NF	Second Floor 216	Pos Stop	
30A-RM-0707	Black Exterior Window Glazing Compound	Non-ACM	Exterior Third Floor 315	ND	
30B-RM-0707	Black Exterior Window Glazing Compound	Non-ACM	Exterior Third Floor 315	ND	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
31A-RM-0707	2' x 2' White Fissured Spline Ceiling Panel	Non-ACM	Third Floor 315	ND	
31B-RM-0707	2' x 2' White Fissured Spline Ceiling Panel	Non-ACM	Second Floor 216	ND	
32A-RM-0707	Off-White Door Lite Window Glazing Compound	Cat 2 NF	Third Floor 315	3% Chrysotile	
32B-RM-0707	Off-White Door Lite Window Glazing Compound	Cat 2 NF	Third Floor 315	Pos Stop	
33A-RM-0707	12" x 12" Tan with Red Streaks Floor Tile	Non-ACM	Third Floor Hallway	ND	TEM
33B-RM-0707	12" x 12" Tan with Red Streaks Floor Tile	Non-ACM	Third Floor Hallway	ND	
34A-RM-0707	Tan Adhesive Associated with 12" x 12" Tan with Red Streaks Floor Tile	Non-ACM	Third Floor Hallway	ND	TEM
34B-RM-0707	Tan Adhesive Associated with 12" x 12" Pink Floor Tile	Non-ACM	Third Floor Hallway	ND	
34C-RM-0707	Tan Adhesive Associated with 12" x 12" Light Red Floor Tile	Non-ACM	Second Floor 212	ND	
35A-RM-0707	12' x 12" Pink Floor Tile	Non-ACM	Third Floor Hallway	ND	
35B-RM-0707	12' x 12" Pink Floor Tile	Non-ACM	Third Floor Hallway	ND	
36A-RM-0707	12' x 12" Light Red Floor Tile	Non-ACM	Third Floor Hallway	ND	TEM
36B-RM-0707	12' x 12" Light Red Floor Tile	Non-ACM	Second Floor 212	ND	
37A-RM-0707	4" Vinyl Baseboard	Non-ACM	Third Floor Hallway	ND	
37B-RM-0707	4" Vinyl Baseboard	Non-ACM	Third Floor Hallway	ND	
38A-RM-0707	Tan Adhesive Associated with 4" Vinyl Baseboard	Non-ACM	Third Floor Hallway	ND	
38B-RM-0707	Tan Adhesive Associated with 4" Vinyl Baseboard	Non-ACM	Third Floor Hallway	ND	
39A-RM-0707	Black Sink Undercoat	Cat 2 NF	Third Floor 316	3% Chrysotile	
39B-RM-0707	Black Sink Undercoat	Cat 2 NF	Second Floor 216	Pos Stop	
40A-RM-0707	Cantilever Topping Slab	Non-ACM	Third Floor	ND	
40B-RM-0707	Cantilever Topping Slab	Non-ACM	Third Floor	ND	
41A-RM-0707	White Joint Compound	Cat 2 NF	Auditorium	2% Chrysotile	
41B-RM-0707	White Joint Compound	Cat 2 NF	Auditorium	Pos Stop	
42A-RM-0707	2' x 2' White Fissured Ceiling Panels	Non-ACM	Third Floor 310	ND	
42B-RM-0707	2' x 2' White Fissured Ceiling Panels	Non-ACM	Third Floor 310	ND	
43A-RM-0707	White Wall Joint Compound	Non-ACM	Third Floor 310	ND	
43B-RM-0707	White Wall Joint Compound	Non-ACM	Third Floor 310	ND	
44A-RM-0707	Black Window Sill Mastic	Non-ACM	Third Floor 315	ND	
44B-RM-0707	Black Window Sill Mastic	Cat 2 NF	Locker Room	3% Chrysotile	
45A-RM-0707	White Adhesive Associated with HVAC	Non-ACM	Third Floor 315	ND	
45B-RM-0707	White Adhesive Associated with HVAC	Non-ACM	Third Floor 315	ND	
46A-RM-0707	Tan Door Caulking	Cat 2 NF	Third Floor 312	8% Chrysotile	
46B-RM-0707	Tan Door Caulking	Cat 2 NF	Third Floor 312	Pos Stop	
47A-RM-0707	White Ceiling Joint Compound	Cat 2 NF	Third Floor Women's Bathroom	2% Chrysotile	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
47B-RM-0707	White Ceiling Joint Compound	Cat 2 NF	Third Floor Women's Bathroom	Pos Stop	
48A-RM-0707	Gray Gypsum Board Ceiling	Non-ACM	Third Floor Women's Bathroom	ND	
48B-RM-0707	Gray Gypsum Board Ceiling	Non-ACM	Third Floor Women's Bathroom	ND	
49A-RM-0707	Tan Ceiling Soffit Joint Compound	Cat 2 NF	Third Floor Hallway	2% Chrysotile	
49B-RM-0707	Tan Ceiling Soffit Joint Compound	Cat 2 NF	Second Floor 212	Pos Stop	
50A-RM-0707	Black Epoxy Baseboard	Non-ACM	Third Floor Women's Bathroom	ND	
50B-RM-0707	Black Epoxy Baseboard	Non-ACM	Third Floor Women's Bathroom	ND	
51A-RM-0707	12" x 12" Light Brown Floor Tile	Non-ACM	Third Floor Library	ND	TEM
51B-RM-0707	12" x 12" Light Brown Floor Tile	Non-ACM	Third Floor Library	ND	
52A-RM-0707	Gray Fire Door Caulking	Cat 2 NF	Third Floor Hallway	7% Chrysotile	
52B-RM-0707	Gray Fire Door Caulking	Cat 2 NF	Third Floor Hallway	Pos Stop	
53A-RM-0707	Black Glue Daub on Wall	Cat 2 NF	Third Floor 323	10% Chrysotile	
53B-RM-0707	Black Glue Daub on Wall Behind Sink Counter	Cat 2 NF	Third Floor 339	Pos Stop	
54A-RM-0707	2' x 2' White Ceiling Panel	Non-ACM	Third Floor 323	ND	
54B-RM-0707	2' x 2' White Ceiling Panel	Non-ACM	Third Floor 323	ND	
55A-RM-0707	12" x 12" Black Floor Tile	Non-ACM	Third Floor 323	ND	TEM
55B-RM-0707	12" x 12" Black Floor Tile	Non-ACM	Third Floor 323	ND	
56A-RM-0707	Gray Cement Wall Panel Fume Hood	Cat 2 NF	Third Floor 325	25% Chrysotile	
56B-RM-0707	Gray Cement Wall Panel Fume Hood	Cat 2 NF	Third Floor 325	Pos Stop	
57A-RM-0707	Brown Panel on Bottom of Fume Hood Cabinet	Non-ACM	Third Floor 325	ND	
57B-RM-0707	Brown Panel on Bottom of Fume Hood Cabinet	Non-ACM	Third Floor 325	ND	
58A-RM-0707	White Paper Behind Speaker Box	Non-ACM	Third Floor 347	ND	
58B-RM-0707	White Paper Behind Speaker Box	Non-ACM	Third Floor 347	ND	
59A-RM-0707	4" Tan Baseboard	Non-ACM	Second Floor 216	ND	
59B-RM-0707	4" Tan Baseboard	Non-ACM	Second Floor 216	ND	
60A-RM-0707	Tan Adhesive Associated with 4" Tan Baseboard	Non-ACM	Second Floor 216	ND	
60B-RM-0707	Tan Adhesive Associated with 4" Tan Baseboard	Non-ACM	Second Floor 216	ND	
61A-RM-0707	Black Interior Window Glazing Compound	Non-ACM	Second Floor 216	ND	
61B-RM-0707	Black Interior Window Glazing Compound	Non-ACM	Second Floor 216	ND	
62A-RM-0707	Light Brown Door Caulking	Cat 2 NF	Second Floor 216	3% Chrysotile	
62B-RM-0707	Light Brown Door Caulking	Cat 2 NF	Second Floor 216	Pos Stop	
63A-RM-0707	12" x 12" Pink with White Specked Floor Tile	Non-ACM	Second Floor Hallway	ND	
63B-RM-0707	12" x 12" Pink with White Specked Floor Tile	Non-ACM	Second Floor Hallway	ND	
64A-RM-0707	Tan Adhesive Associated with 12" x 12" Pink with White Specked Floor Tile	Non-ACM	Second Floor Hallway	ND	TEM

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
64B-RM-0707	Tan Adhesive Associated with 12" x 12" Pink with White Speckled Floor Tile	Non-ACM	Second Floor Hallway	ND	
65A-RM-0707	White Plaster Skim Coat	Non-ACM	Second Floor 216	ND	
65B-RM-0707	White Plaster Skim Coat	Non-ACM	Second Floor 216	ND	
65C-RM-0707	White Plaster Skim Coat	Non-ACM	Second Floor 216	ND	
65D-RM-0707	White Plaster Skim Coat	Non-ACM	Second Floor 216	ND	
65E-RM-0707	White Plaster Skim Coat	Non-ACM	Second Floor 216	ND	
66A-RM-0707	Gray Plaster Rough Coat	Non-ACM	Second Floor 216	ND	
66B-RM-0707	Gray Plaster Rough Coat	Non-ACM	Second Floor 216	ND	
66C-RM-0707	Gray Plaster Rough Coat	Non-ACM	Second Floor 216	ND	
66D-RM-0707	Gray Plaster Rough Coat	Non-ACM	Second Floor 216	ND	
66E-RM-0707	Gray Plaster Rough Coat	Non-ACM	Second Floor 216	ND	
67A-RM-0707	Gray Floor Leveler	Non-ACM	Second Floor 225	ND	
67B-RM-0707	Gray Floor Leveler	Non-ACM	Second Floor 225	ND	
68A-RM-0707	Gray Gypsum Ceiling	Non-ACM	Second Floor 224	ND	
68B-RM-0707	Gray Gypsum Ceiling	Non-ACM	Second Floor 224	ND	
69A-RM-0707	Tan Residual Glue Daub on Wood Strapping	Non-ACM	Gym	ND	
69B-RM-0707	Tan Residual Glue Daub on Wood Strapping	Non-ACM	Gym	ND	
70A-RM-0707	Black Gym Floor Adhesive	Non-ACM	Gym	ND	
70B-RM-0707	Black Gym Floor Adhesive	Non-ACM	Gym	ND	
71A-RM-0707	White Fireproofing on Ceiling	Non-ACM	Gym	ND	
71B-RM-0707	White Fireproofing on Ceiling	Non-ACM	Gym	ND	
71C-RM-0707	White Fireproofing on Ceiling	Non-ACM	Gym	ND	
71D-RM-0707	White Fireproofing on Ceiling	Non-ACM	Gym	ND	
71E-RM-0707	White Fireproofing on Ceiling	Non-ACM	Gym	ND	
71F-RM-0707	White Fireproofing on Ceiling	Non-ACM	Gym	ND	
71G-RM-0707	White Fireproofing on Ceiling	Non-ACM	Gym	ND	
72A-RM-0707	Black Interior Window Glazing Compound	Non-ACM	Art Room	ND	
72B-RM-0707	Black Interior Window Glazing Compound	Non-ACM	Art Room	ND	
73A-RM-0707	White Sink Undercoat	Non-ACM	First Floor 128	ND	
73B-RM-0707	White Sink Undercoat	Non-ACM	First Floor 128	ND	
74A-RM-0707	Brown Stick Pin Adhesive Associated with Duct Work	Cat 2 NF	First Floor Mechanical Room	15% Chrysotile	
74B-RM-0707	Brown Stick Pin Adhesive Associated with Duct Work	Cat 2 NF	Roof Top Mechanical Room	Pos Stop	
75A-RM-0707	Black Vibration Isolator	Non-ACM	First Floor Mechanical Room	ND	
75B-RM-0707	Black Vibration Isolator	Non-ACM	First Floor Mechanical Room	ND	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
76A-RM-0707	12" x 12" Off-White Floor Tile	Non-ACM	First Floor Hallway	ND	
76B-RM-0707	12" x 12" Off-White Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
77A-RM-0707	12" x 12" Blue Floor Tile	Non-ACM	First Floor Hallway	ND	
77B-RM-0707	12" x 12" Blue Floor Tile	Non-ACM	First Floor Hallway	ND	
78A-RM-0707	Brown Adhesive Associated with 12" x 12" Off-White Floor Tile	Non-ACM	First Floor Hallway	ND	TEM
78B-RM-0707	Brown Adhesive Associated with 12" x 12" Blue Floor Tile	Non-ACM	First Floor Hallway	ND	
79A-RM-0707	12" x 12" Dark Blue Floor Tile	Non-ACM	First Floor 128	ND	
79B-RM-0707	12" x 12" Dark Blue Floor Tile	Non-ACM	First Floor 128	ND	
80A-RM-0707	Tan Adhesive Associated with 12" x 12" Dark Blue Floor Tile	Non-ACM	First Floor 128	ND	TEM
80B-RM-0707	Tan Adhesive Associated with 12" x 12" Dark Blue Floor Tile	Non-ACM	First Floor 128	ND	
81A-RM-0707	Black Adhesive Associated with 12" x 12" Off-White Floor Tile	Cat 1 NF	First Floor 128 Bathroom	3% Chrysotile	
81B-RM-0707	Black Adhesive Associated with 12" x 12" Off-White Floor Tile	Cat 1 NF	First Floor 128 Bathroom	Pos Stop	
82A-RM-0707	4" Dark Blue Baseboard	Non-ACM	First Floor 128	ND	
82B-RM-0707	4" Dark Blue Baseboard	Non-ACM	First Floor 128	ND	
83A-RM-0707	Tan Adhesive Associated with 4" Dark Blue Baseboard	Non-ACM	First Floor 128	ND	
83B-RM-0707	Tan Adhesive Associated with 4" Dark Blue Baseboard	Non-ACM	First Floor 128	ND	
84A-RM-0707	12" x 12" Light Blue Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
84B-RM-0707	12" x 12" Light Blue Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
85A-RM-0707	Tan Adhesive Associated with 12" x 12" Light Blue Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	TEM
85B-RM-0707	Tan Adhesive Associated with 12" x 12" Light Blue Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
86A-RM-0707	12" x 12" Pink Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
86B-RM-0707	12" x 12" Pink Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
87A-RM-0707	Tan Adhesive Associated with 12" x 12" Pink Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	TEM
87B-RM-0707	Tan Adhesive Associated with 12" x 12" Pink Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
88A-RM-0707	12" x 12" Blue Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
88B-RM-0707	12" x 12" Blue Floor Tile	Non-ACM	First Floor 128 Bathroom	ND	
89A-RM-0707	Gray Duct-Seam Sealant	Non-ACM	First Floor Mechanical Room	ND	
89B-RM-0707	Gray Duct-Seam Sealant	Non-ACM	First Floor Mechanical Room	ND	
90A-RM-0707	Dark Green Duct-Seam Sealant	Non-ACM	First Floor Mechanical Room	ND	
90B-RM-0707	Dark Green Duct-Seam Sealant	Non-ACM	First Floor Mechanical Room	ND	
91A-RM-0707	White Mudded Pipe Insulation Associated with Hot Water Boiler	Non-ACM	First Floor Mechanical Room	ND	
91B-RM-0707	White Mudded Pipe Insulation Associated with Hot Water Boiler	Non-ACM	First Floor Mechanical Room	ND	
91C-RM-0707	White Mudded Pipe Insulation Associated with Hot Water Boiler	Non-ACM	First Floor Mechanical Room	ND	
92A-RM-0707	White Mudded Pipe Insulation Associated with Drain Pipes	Non-ACM	First Floor Mechanical Room	ND	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
92B-RM-0707	White Mudded Pipe Insulation Associated with Drain Pipes	Non-ACM	First Floor Mechanical Room	ND	
92C-RM-0707	White Mudded Pipe Insulation Associated with Drain Pipes	Non-ACM	First Floor Mechanical Room	ND	
93A-RM-0707	Red Pipe Penetration Sealant	Non-ACM	First Floor Electrical Room	ND	
93B-RM-0707	Red Pipe Penetration Sealant	Non-ACM	First Floor Electrical Room	ND	
94A-RM-0707	White Mudded Pipe Insulation Associated with Cold Water Pipes	Non-ACM	First Floor Mechanical Room	ND	
94B-RM-0707	White Mudded Pipe Insulation Associated with Cold Water Pipes	Non-ACM	First Floor Mechanical Room	ND	
94C-RM-0707	White Mudded Pipe Insulation Associated with Cold Water Pipes	Non-ACM	First Floor Mechanical Room	ND	
95A-RM-0707	Green Glue Adhesive Associated with Insulation	Non-ACM	First Floor Crawlspace	ND	
95B-RM-0707	Green Glue Adhesive Associated with Insulation	Non-ACM	First Floor Crawlspace	ND	
96A-RM-0707	Gray Mudded Pipe Fittings	Non-ACM	First Floor Crawlspace	ND	
96B-RM-0707	Gray Mudded Pipe Fittings	Non-ACM	First Floor Crawlspace	ND	
96C-RM-0707	Gray Mudded Pipe Fittings	Non-ACM	First Floor Crawlspace	ND	
97A-RM-0707	Dark Gray Adhesive on Blower	Non-ACM	First Floor Mechanical Room	ND	
97B-RM-0707	Dark Gray Adhesive on Blower	Non-ACM	First Floor Mechanical Room	ND	
98A-RM-0707	Black Window Glazing Compound	Non-ACM	First Floor Kitchen to Cafeteria Doors	ND	
98B-RM-0707	Black Window Glazing Compound	Non-ACM	First Floor Kitchen to Cafeteria Doors	ND	
99A-RM-0707	12" x 12" Dark Gray with Black Streaks	Non-ACM	First Floor Ramp to Second Floor	ND	
99B-RM-0707	12" x 12" Dark Gray with Black Streaks	Non-ACM	First Floor Ramp to Second Floor	ND	
100A-RM-0707	Dark Tan Adhesive Associated with 12" x 12" Dark Gray with Black Streaks	Non-ACM	First Floor Ramp to Second Floor	ND	TEM
100B-RM-0707	Dark Tan Adhesive Associated with 12" x 12" Dark Gray with Black Streaks	Non-ACM	First Floor Ramp to Second Floor	ND	
101A-RM-0707	4" Light Gray Baseboard	Non-ACM	First Floor Hallway	ND	
101B-RM-0707	4" Light Gray Baseboard	Non-ACM	First Floor Hallway	ND	
102A-RM-0707	Tan Adhesive Associated with 4" Light Gray Baseboard	Non-ACM	First Floor Hallway	ND	
102B-RM-0707	Tan Adhesive Associated with 4" Light Gray Baseboard	Non-ACM	First Floor Hallway	ND	
103A-RM-0707	12" x 12" Light Blue with Dark Blue Speck	Non-ACM	Second Floor 215	ND	
103B-RM-0707	12" x 12" Light Blue with Dark Blue Speck	Non-ACM	Second Floor 215	ND	
104A-RM-0707	Tan Adhesive Associated with 12" x 12" Light Blue with Dark Blue Speck	Non-ACM	Second Floor 215	ND	TEM
104B-RM-0707	Tan Adhesive Associated with 12" x 12" Light Blue with Dark Blue Speck	Non-ACM	Second Floor 215	ND	
105A-RM-0707	12" x 12" Off-White with Blue Streaks	Non-ACM	Second Floor 215	ND	TEM
105B-RM-0707	12" x 12" Off-White with Blue Streaks	Non-ACM	Second Floor 215	ND	
01A-RCM-0811	Black Vapor Barrier on Deck	Non-ACM	C Section Roof	ND	
01B-RCM-0811	Black Vapor Barrier on Deck	Non-ACM	B Section Roof	ND	
02A-RCM-0811	Black Vapor Barrier at Perimeter Blocking	Non-ACM	C Section Roof	ND	
02B-RCM-0811	Black Vapor Barrier at Perimeter Blocking	ACM	B Section Roof	3% Chrysotile	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
02C-RCM-0811	Black Vapor Barrier at Perimeter Blocking	ACM	A Section Roof	5% Chrysotile	
03A-RCM-0811	Black Mastic Beneath Wood Blocking	Non-ACM	C Section Roof	ND	
03B-RCM-0811	Black Mastic Beneath Wood Blocking	Non-ACM	B Section Roof	ND	
03C-RCM-0811	Black Mastic Beneath Wood Blocking	ACM	A Section Roof	7% Chrysotile	
04A-RCM-0811	Gray Caulking at Roof Flashing	Non-ACM	C Section Roof	ND	
04B-RCM-0811	Gray Caulking at Roof Flashing	Non-ACM	B Section Roof	ND	
05A-RCM-0811	Black Lap-Seam Sealant	Non-ACM	C Section Roof	ND	
05B-RCM-0811	Black Lap-Seam Sealant	Non-ACM	B Section Roof	ND	
06A-RCM-0811	Gray Caulking at Flashing	Non-ACM	B Section Roof	ND	
06B-RCM-0811	Gray Caulking at Flashing	Non-ACM	B Section Roof	ND	
07A-RCM-0811	Gray Caulking Associated with Methane System	Non-ACM	B Section Roof	ND	
07B-RCM-0811	Gray Caulking Associated with Methane System	Non-ACM	A Section Roof	ND	
08A-RCM-0811	Black Mop on Deck	Non-ACM	A Section Roof	ND	
08B-RCM-0811	Black Mop on Deck	Non-ACM	A Section Roof	ND	
09-RCM-0811	Gray Mudded Fitting Insulation	Friable	2nd Floor Custodian Closet in Chase	5% Chrysotile	
01A-RCM-20210630	Black Corkboard Adhesive	Non-ACM	216	ND	
01B-RCM-20210630	Black Corkboard Adhesive	Non-ACM	216	ND	
01C-RCM-20210630	Black Corkboard Adhesive	Non-ACM	210	ND	
02A-RCM-20210630	White Thin-Set Mortar Assoc. with Ceramic Floor Tile	Non-ACM	Ground Floor Staff Bathrooms	ND	
02B-RCM-20210630	White Thin-Set Mortar Assoc. with Ceramic Floor Tile	Non-ACM	Ground Floor Staff Bathrooms	ND	
03A-RCM-20210630	Black Waterproofing Beneath Ceramic Floor Tile	Non-ACM	Ground Floor Staff Bathrooms	ND	
03B-RCM-20210630	Black Waterproofing Beneath Ceramic Floor Tile	Non-ACM	Ground Floor Staff Bathrooms	ND	
04A-RCM-20210630	Black Quarry Tile Grout	Non-ACM	Kitchen	ND	
04B-RCM-20210630	Black Quarry Tile Grout	Non-ACM	Kitchen	ND	
05A-RCM-20210630	White Thin-Set Mortar Assoc. with Quarry Tile	Non-ACM	Kitchen	ND	
05B-RCM-20210630	White Thin-Set Mortar Assoc. with Quarry Tile	Non-ACM	Kitchen	ND	
06A-RCM-20210630	Gray Mud-Set Assoc. with Quarry Tile	Non-ACM	Kitchen	ND	
06B-RCM-20210630	Gray Mud-Set Assoc. with Quarry Tile	Non-ACM	Kitchen	ND	
07A-RCM-20210630	Tan Construction Adhesive Assoc. with Chalkboard	Non-ACM	206	ND	
07B-RCM-20210630	Tan Construction Adhesive Assoc. with Chalkboard	Non-ACM	206	ND	
08A-RCM-20210630	Brown Chalkboard Adhesive	Non-ACM	210	ND	
08B-RCM-20210630	Brown Chalkboard Adhesive	Non-ACM	210	ND	
09A-RCM-20210630	Red Adhesive Associated with Chalkboard Layers	Non-ACM	210	ND	
09B-RCM-20210630	Red Adhesive Associated with Chalkboard Layers	Non-ACM	210	ND	

Table 1
Suspect Asbestos-Containing Materials Laboratory Analytical Data Summary

Sample Number	Material Type	NESHAP Category	Sample Location	Result	Comments
10A-RCM-20210630	Black Sealant on Pavers	Non-ACM	Play Areas	ND	
10B-RCM-20210630	Black Sealant on Pavers	Non-ACM	Play Areas	ND	
11A-RCM-20210630	Black Sealant on Playground Perimeter	Non-ACM	Play Areas	ND	
11B-RCM-20210630	Black Sealant on Playground Perimeter	Non-ACM	Play Areas	ND	
11C-RCM-20210630	Black Sealant on Playground Perimeter	Non-ACM	Play Areas	ND	

Cat 1 NF = Category I Non-Friable Material

Cat 2 NF = Category II Non-Friable Material

Pos Stop = Positive Stop

ND = None Detected

ACM = Asbestos-Containing Material

TEM = Transmission Electron Microscopy

Table 2
Asbestos-Containing Materials Summary

Tobin Montessori & Vassal Lane Schools
Cambridge, MA

Perkins Eastman Architects, Inc.
August 2021
Fuss & O'Neill Reference No. 20160717.A30

Asbestos-Containing Material Type	Locations(s)	Asbestos Content	Estimated Total Quantity	Comments
Tan Exterior Joint Caulking	Exterior CMU to Concrete Joints	5% Chrysotile	6,250 LF	
12" x 12" Brown Floor Tile	1st Floor Cafeteria, Kitchen Office & Bathroom, Classrooms 128A, 128B, 129A, 129B & Adjacent Storage Spaces/Bathrooms, Art Room, Art Office, Art Storage, Office 130 & Adjacent Spaces, 2nd Floor Music Room & Staff Room, 2nd Floor Science Labs (323 & 325) & Adjacent Storage Area	3% Chrysotile	13,500 SF	
Black Adhesive Associated with 12" x 12" Brown Floor Tile		10% Chrysotile		
Black Adhesive Associated with 12" x 12" Off-White Floor Tile		3% Chrysotile		
Gray Top of Door Caulking	Bathroom, Classroom, Office, & Storage Room Doors	5% Chrysotile	175 EA	
Tan Door Caulking		8% Chrysotile		
Light Brown Door Caulking		3% Chrysotile		
Off-White Door Lite Window Glazing Compound		3% Chrysotile		
Gray Caulking CMU to Concrete	CMU to Concrete Joints Throughout Interior	7% Chrysotile	12,000 LF	
Gray Interior Window Glazing Compound	Exterior Window Systems	3% Chrysotile	108 EA	
Black Mastic on Auditorium Structural Concrete	Exterior Auditorium beneath CMU	10% Chrysotile	2,500 SF	
Brown Exterior Window Caulking	All Exterior Windows	5% Chrysotile	7,600 LF	
Black Window Caulking (Interior)		5% Chrysotile		
Black Window Sill Mastic		3% Chrysotile		
White Exterior Door Caulking	All Exterior Doors	7% Chrysotile	47 EA	
Gray Fire Door Caulking	Firebreak Door Assemblies	7% Chrysotile	8 EA	
Black Foundation Waterproofing	Exterior Perimeter Foundation	12% Chrysotile	7,500 SF (670 tons)	670 tons if entire foundation wall is removed with the waterproofing; assumes 16" foundation wall thickness
White Joint Compound	Throughout Interior at All Soffits (including Auditorium Ceiling)	2% Chrysotile	18,000 SF	
White Joint Compound		2% Chrysotile		
White Ceiling Joint Compound		2% Chrysotile		
Tan Ceiling Soffit Joint Compound		2% Chrysotile		
Black Sink Undercoating	Classroom Sinks Throughout	3% Chrysotile	40 EA	
Black Glue Daub on Wall	Classroom Counter Backsplashes Throughout	10% Chrysotile	350 LF	
Gray Cement Wall Panel Fume Hood	Third Floor 325	25% Chrysotile	1 EA	
Fume Hood Counter Top		Assumed ACM		
Brown Stick Pin Adhesive Associated with Duct Work	Throughout Interior	15% Chrysotile	2,000 LF	
Black Vapor Barrier at Perimeter Blocking		3% Chrysotile		

Table 2
Asbestos-Containing Materials Summary

Asbestos-Containing Material Type	Locations(s)	Asbestos Content	Estimated Total Quantity	Comments
Black Vapor Barrier at Perimeter Blocking	Roof	5% Chrysotile	5,500 SF	
Black Mastic Beneath Wood Blocking		7% Chrysotile		
Gray Mudded Fitting Insulation	Throughout Mechanical Room, Above Ceilings, & within Pipe Chases	5% Chrysotile	750 EA	

EA = Each, LF = Linear Feet, SF = Square Feet

ACM = Asbestos-Containing Material

Table 3
PCB-Containing Source Material Analytical Results Summary

Material Type	Sample Location	Sample No.	PCB Content (mg/kg)	Substrate Sample ID	Distance Relative to Caulking Joint	Substrate Material	PCB Content (mg/kg)	Lab Reports
Gray Joint Caulking (Interior)*	Café	01A	5	N/A	N/A	N/A	N/A	21F1135
Gray Joint Caulking (Interior)*	Room 216	01B	20.7	07A 08A	0" 0"	CMU Conc	0.92 1.15	21F1135 (bulk) 21G0701 (substrate)
Gray Joint Caulking (Interior)*	Room 344	01C	95	03A 03B 03C 04A 04B 04C	0" 0.5" 1.0" 0" 1.0" 3.0"	Conc Conc Conc CMU CMU CMU	ND ND ND 0.12 ND ND	21F1135 (bulk) 21G0094 (substrate)
Gray Joint Caulking (Interior)*	Room 128	300	19.3	01A 01B 01C 02A 02B 02C	0" 0.5" 1.0" 0" 1.0" 3.0"	Conc Conc Conc CMU CMU CMU	0.41 ND ND ND ND ND	21G1140 (bulk) 21G0094 (substrate)
Gray Interior Joint Caulking*	Art Room Storage (Vertical Bead)	101A	38.2	101A1 101A2 101A3	0" 1.0" 0"	CMU CMU Conc	0.12 ND 0.32	21G0095 (bulk) 21G1140 (bulk)
Gray Interior Joint Caulking*	2nd Floor Electrical Room (vertical bead)	101B	7.7	N/A	N/A	N/A	N/A	21G0095

Material Type	Sample Location	Sample No.	PCB Content (mg/kg)	Substrate Sample ID	Distance Relative to Caulking Joint	Substrate Material	PCB Content (mg/kg)	Lab Reports
Gray Interior Joint Caulking*	A Unit Stairwell (Horizontal Bead)	101C	31.2	N/A	N/A	N/A	N/A	21G0095
Gray Door Caulking*	Café	02A	27	N/A	N/A	N/A	N/A	21F1135 (bulk)
Gray Door Caulking*	Room 216	02B	10.2	N/A	N/A	N/A	N/A	21F1135 (bulk)
Gray Door Caulking*	Room 344	02C	19.4	N/A	N/A	N/A	N/A	21F1135 (bulk)
Tan Paint	Café	03A	22	N/A	N/A	N/A	N/A	21F1135 (bulk)
Tan Paint	Corridor Near Room 211	03B	25	N/A	N/A	N/A	N/A	21F1135 (bulk)
Tan Paint	Corridor near 344	03C	38	N/A	N/A	N/A	N/A	21F1135 (bulk)
Dark Gray Window Caulking (Interior)*	Café	04A	10.8	N/A	N/A	N/A	N/A	21F1135 (bulk)
Dark Gray Window Caulking (Interior)*	Room 216	04B	101	06A 06B 06C	0" 1.0" 3.0"	CMU CMU CMU	0.16 0.32 0.28	21F1135 (bulk) 21G0701 (substrate)
Dark Gray Window Caulking (Interior)*	Room 344	04C	52	05A 05B 05C	0" 1.0" 3.0"	CMU CMU CMU	0.27 0.12 0.39	21F1135 (bulk) 21G0701 (substrate)
Black Window Glazing Compound*	Café	05A	14.4	N/A	N/A	N/A	N/A	21F1135 (bulk)
Gray Exterior Joint Caulking*	West Elevation	06A	17.3	203A 204A	0" 0"	CMU Conc	ND 0.12	21F1135 (bulk) 21G1140 (substrate)

Material Type	Sample Location	Sample No.	PCB Content (mg/kg)	Substrate Sample ID	Distance Relative to Caulking Joint	Substrate Material	PCB Content (mg/kg)	Lab Reports
Gray Exterior Joint Caulking*	South Elevation	06B	11.3	N/A	N/A	N/A	N/A	21F1135 (bulk)
Gray Exterior Joint Caulking*	Northeast Elevation	06C	10.3	N/A	N/A	N/A	N/A	21F1135 (bulk)
Gray Exterior Joint Caulking*	Gym Facing Field (North Elevation)	100A	ND	N/A	N/A	N/A	N/A	21G0095 (bulk)
Gray Exterior Joint Caulking*	East Elevation	100B	4.7	N/A	N/A	N/A	N/A	21G0095 (bulk)
Gray Exterior Joint Caulking*	South Elevation (Left of Main Entrance)	100C	3.94	N/A	N/A	N/A	N/A	21G0095 (bulk)
Gray Exterior Joint Caulking*	West Elevation	100D	5.11	N/A	N/A	N/A	N/A	21G0095 (bulk)
Gray/Tan Exterior Joint Caulking*	Roof Unit B	102	5.3	N/A	N/A	N/A	N/A	21G0095 (bulk)
Gray/Tan Exterior Joint Caulking*	South Elevation (exterior of 214)	301	3.1	02A 03A	0" 0"	CMU Conc	ND ND	21G1140 (bulk) 21G0701 (substrate)
Exterior Window Caulking*	South Elevation (exterior of 214)	07A	48	01A 01B 01C 11A 11B 11C D01	0" 1.0" 3.0" 0" 1.0" 3.0" Surface	CMU CMU CMU Conc Conc Conc Paver	1.04 0.93 0.47 ND ND ND 0.81	21F1135 (bulk) 21G0701 (substrate) 21G0596 (paver)

Material Type	Sample Location	Sample No.	PCB Content (mg/kg)	Substrate Sample ID	Distance Relative to Caulking Joint	Substrate Material	PCB Content (mg/kg)	Lab Reports
Exterior Window Caulking*	Southwest Elevation	07B	96	200A	0"	CMU	0.32	21F1135 (bulk) 21G1140 (substrate)
				200B	1.0"	CMU	0.11	
				201A	0"	Conc	ND	
				201B	1.0"	Conc	ND	
				202	Surface	Paver	0.24	
Black Exterior Window Caulking (Top of Window)*	Room 344	99A	71	N/A	N/A	N/A	N/A	21G0095 (bulk)
Black Exterior Window Caulking (Vertical Bead)*	Room 128	99B	41	N/A	N/A	N/A	N/A	21G0095 (bulk)
Black Exterior Window Caulking (Vertical Bead)*	Room 284	99C	43	04A	0"	CMU	ND	21G0095 (bulk) 21G0701 (substrate) 21G0094 (substrate) 21G0696 (soil)
				04B	1.0"	CMU	ND	
				04C	3.0"	CMU	ND	
				13A	0"	Conc	ND	
				13B	1.0"	Conc	ND	
				13C	3.0"	Conc	ND	
				D04	Surface	Soil	ND	
Black Exterior Window Caulking (Vertical Bead)*	West Elevation	302	43	D02	Surface	Soil	0.24	21G1140 (bulk) 21G0596 (soil)
Black Exterior Window Caulking (Vertical Bead)*	North Face (Play Area)	303	29	D03	Surface	Paver	0.77	21G1140 (bulk) 21G0696 (paver)

Material Type	Sample Location	Sample No.	PCB Content (mg/kg)	Substrate Sample ID	Distance Relative to Caulking Joint	Substrate Material	PCB Content (mg/kg)	Lab Reports
Black Exterior Window Caulking (Vertical Bead)*	North Elevation (Building Café @ foundation)	305	5.5	D05	Surface	Soil	1.6	21G1140 (bulk) 21G0696 (soil) 21G1140 (soil) 21G0594 (soil) 21G1593 (soil) 21H0163 (soil) 21H0208 (soil)
				BD05	6" b/n surface	Soil	1.5	
				BBD05	1' b/n surface	Soil	0.91	
				D051	5' north of D05	Soil	1.0	
				D052	10' north of D05	Soil	0.16	
				D05A	5' west of D05	Soil	1.9	
				D05A1	5' north of D05A	Soil	0.49	
				D05B	5' east of D05	Soil	2.0	
				D05B1	5' north of D05B	Soil	0.96	
				D05C	10' west of D05	Soil	1.32	
				D05C1	5' north of D05C	Soil	0.37	
				D05D	10' east of D05	Soil	1.8	
				D05D1	5' north of D05D	Soil	0.53	
				D05E	15' west of D05	Soil	1.33	
				D05E1	5' north of D05E	Soil	0.535	
				D05F	15' east of D05	Soil	1.21	
				D05F1	5' north of D05F	Soil	0.93	
				D05G	20' east of D05	Soil	0.419	
				D05G1	5' north of D05G	Soil	5.1	
				D05H	25' east of D05	Soil	0.77	
D05H1	5' north of D05H	Soil	0.83					
D05I	30' east of D05	Soil	1.28					
D05I1	5' north of D05I	Soil	0.31					
D05J	35' east of D05	Soil	0.67					
D05J1	5' north of D05J	Soil	0.089					

Material Type	Sample Location	Sample No.	PCB Content (mg/kg)	Substrate Sample ID	Distance Relative to Caulking Joint	Substrate Material	PCB Content (mg/kg)	Lab Reports
Black Exterior Window Caulking (Vertical Bead)*	North Elevation (Building Café @ foundation)	n/a	n/a	D06	Surface	Soil	0.45	21G0696 (soil)
Black Exterior Window Caulking (Vertical Bead)*	South Elevation (play area, dripline)	304	49	D07	Surface	Paver	ND	21G1140 (bulk) 21G0696 (paver)
<i>Seat Cushion</i>	<i>Auditorium</i>	<i>7</i>	<i>30</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>	<i>21G0095 (bulk)</i>
Olive Insulation Glue	Crawlspace	110	135	N/A	N/A	N/A	N/A	21G0696 (bulk)
Black Waterproofing*	Exterior	120	7.4	N/A	N/A	N/A	N/A	21G0696 (bulk)

mg/kg = Milligrams per Kilogram; ND = None Detected; CMU = Concrete Masonry Unit; Conc = Concrete; * = contains asbestos

Bold = PCB ≥ 50 PPM; *Italics* = PCB Remediation Waste

Appendix A

Limitations

APPENDIX A

Tobin Montessori & Vassal Lane Upper Schools Cambridge, Massachusetts

1. This environmental report has been prepared for the exclusive use of the Client, and is subject to, and is issued in connection with, the general terms and conditions of the original Agreement (June 18, 2020) and all of its provisions. Any use or reliance upon information provided in this report, without the specific written authorization of the Client and Fuss & O'Neill, shall be at the User's individual risk. This report should not be used as an abatement specification. All quantities of materials identified during this inspection are approximate.
2. Fuss & O'Neill has obtained and relied upon laboratory analytical results in conducting the inspection. This information was used to form conclusions regarding the types and quantities of ACM, PCB source materials, and mercury-containing flooring that must be managed prior to demolition activities that will disturb these materials at the subject property(ies), and waste stream characterization for leachable lead. Fuss & O'Neill has not performed an independent review of the reliability of this laboratory data.
3. Unless otherwise noted, only suspect hazardous materials associated within or located on the building (aboveground) were included in this inspection. Suspect hazardous materials may exist below the ground surfaces that were not included in the scope of work of this inspection. Fuss & O'Neill cannot guarantee all asbestos or suspect hazardous materials were identified within the areas included in the scope of work.
4. The findings, observations, and conclusions presented in this report are limited by the scope of services outlined in our original Agreement, which reflects schedule and budgetary constraints imposed by the Client. Furthermore, the assessment has been conducted in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made.
5. The conclusions presented in this report are based solely upon information gathered by Fuss & O'Neill to date. Should further environmental or other relevant information be discovered at a later date, the Client should immediately bring the information to Fuss & O'Neill's attention. Based upon an evaluation and assessment of relevant information, Fuss & O'Neill may modify the report and its conclusions.

Appendix B

Asbestos Inspector State Certification & EPA Accreditation



Asbestos Inspector

ROBERT C. MALLET

Eff. Date 06/01/20

Exp. Date 06/01/21

AI900557

Member of C.O.N.E.S.

bosrnew BOS-renew

21





This is to certify that

Robert C Mallett



*has completed the requisite training, and has passed an examination for
reaccreditation as:*

Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act; 15 U.S.C. 2646

Course Location

Institute for Environmental Education
16 Upton Drive Wilmington, MA 01887

January 6, 2020

Course Dates

20-2958-106-402379

Certificate Number

January 06, 2020

Examination Date

January 06, 2021

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION



THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Michael Flanagan
Director

Asbestos Inspector

ROBERT C. MALLET

Eff. Date 06/15/21

Exp. Date 06/15/22

AI900557

Member of C.O.N.E.S.

BOSR

BOS 1/4/22

22





This is to certify that

Robert C. Mallett

*has completed requisite training, and has passed an examination for reaccreditation
as:*

Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

Course Location

Zoom Video Conference
Institute for Environmental Education 16 Upton Drive Wilmington, MA 01887

January 4, 2021

Course Dates

21-3540-106-260110

Certificate Number

January 04, 2021

Examination Date

January 04, 2022

Expiration Date

Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION

Appendix C

Asbestos Laboratory Analytical Reports & Chain-of-Custody Forms



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 132004891

Customer ID: ENVI54

Customer PO: 20160717.A30T1

Project ID:

Attention: Dustin Diedricksen
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Phone: (617) 778-3750

Fax:

Received Date: 07/20/2020 8:30 AM

Analysis Date: 07/27/2020

Collected Date: 07/07/2020

Project: 20160717.A30 Task 1 / Tobin Montessori & Vassal Lane Upper Schools Demolition Project - 197 Vassal Lane, Cambridge, MA

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01A-RM-0707 <small>132004891-0001</small>	Exterior South Entrance - Tan Exterior Joint Caulking	Tan Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
01B-RM-0707 <small>132004891-0002</small>	Exterior South Entrance - Tan Exterior Joint Caulking				Positive Stop (Not Analyzed)
02A-RM-0707 <small>132004891-0003</small>	First Floor Cafeteria - Tan Glue Daubs Associated with Tectum Ceiling Panel	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B-RM-0707 <small>132004891-0004</small>	First Floor Cafeteria - Tan Glue Daubs Associated with Tectum Ceiling Panel	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A-RM-0707 <small>132004891-0005</small>	First Floor Cafeteria - Tan Tectum Ceiling Panels	Tan Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
03B-RM-0707 <small>132004891-0006</small>	First Floor Cafeteria - Tan Tectum Ceiling Panels	Tan Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
04A-RM-0707 <small>132004891-0007</small>	First Floor Cafeteria - 4" Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B-RM-0707 <small>132004891-0008</small>	First Floor Cafeteria - 4" Black Vinyl Baseboard	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A-RM-0707 <small>132004891-0009</small>	First Floor Cafeteria - Tan Adhesive Associated with 04	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05B-RM-0707 <small>132004891-0010</small>	First Floor Cafeteria - Tan Adhesive Associated with 04	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06A-RM-0707 <small>132004891-0011</small>	First Floor Cafeteria - 12"x12" Brown Floor Tile	Brown Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
06B-RM-0707 <small>132004891-0012</small>	First Floor Cafeteria - 12"x12" Brown Floor Tile				Positive Stop (Not Analyzed)
07A-RM-0707 <small>132004891-0013</small>	First Floor Cafeteria - Black Adhesive Associated with 06	Black Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
07B-RM-0707 <small>132004891-0014</small>	First Floor Cafeteria - Black Adhesive Associated with 06				Positive Stop (Not Analyzed)

Initial report from: 07/27/2020 18:54:25



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 132004891
Customer ID: ENVI54
Customer PO: 20160717.A30T1
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
08A-RM-0707 132004891-0015	First Floor Cafeteria - Gray Top of Door Caulking	Gray Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
08B-RM-0707 132004891-0016	First Floor Cafeteria - Gray Top of Door Caulking				Positive Stop (Not Analyzed)
09A-RM-0707 132004891-0017	First Floor Cafeteria - Tan Tectum Wall Panel Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09B-RM-0707 132004891-0018	First Floor Cafeteria - Tan Tectum Wall Panel Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10A-RM-0707 132004891-0019	First Floor Cafeteria - Gray Caulking CMU to Plaster	Gray Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
10B-RM-0707 132004891-0020	First Floor Cafeteria - Gray Caulking CMU to Plaster				Positive Stop (Not Analyzed)
11A-RM-0707 132004891-0021	First Floor Cafeteria - Brown Interior Window Glazing	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11B-RM-0707 132004891-0022	First Floor Cafeteria - Brown Interior Window Glazing	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12A-RM-0707 132004891-0023	First Floor Cafeteria - Gray Interior Window Glazing	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
12B-RM-0707 132004891-0024	First Floor Cafeteria - Gray Interior Window Glazing				Positive Stop (Not Analyzed)
13A-RM-0707 132004891-0025	First Floor Cafeteria - Tan Adhesive Associated with Wood Strapping	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13B-RM-0707 132004891-0026	First Floor Cafeteria - Tan Adhesive Associated with Wood Strapping	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14A-RM-0707 132004891-0027	Exterior Auditorium - Black Through Wall Flashing Felt	Various Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
14B-RM-0707 132004891-0028	Exterior East - Black Through Wall Flashing Felt	Various Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
14C-RM-0707 132004891-0029	Exterior - Black Through Wall Flashing Felt	Various Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
15A-RM-0707 132004891-0030	Exterior Auditorium - Black Through Wall Flashing Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15B-RM-0707 132004891-0031	Exterior East - Black Through Wall Flashing Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15C-RM-0707 132004891-0032	Exterior - Black Through Wall Flashing Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 07/27/2020 18:54:25



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 132004891
Customer ID: ENVI54
Customer PO: 20160717.A30T1
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
16A-RM-0707 132004891-0033	Exterior Auditorium - Black Mastic on Auditorium Structural Concrete	Black Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
16B-RM-0707 132004891-0034	Exterior Auditorium - Black Mastic on Auditorium Structural Concrete				Positive Stop (Not Analyzed)
17A-RM-0707 132004891-0035	Exterior East - Brown Exterior Window Caulking	Gray Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
17B-RM-0707 132004891-0036	Exterior East - Brown Exterior Window Caulking				Positive Stop (Not Analyzed)
18A-RM-0707 132004891-0037	Exterior East - White Exterior Door Caulking	Gray Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
18B-RM-0707 132004891-0038	Exterior East - White Exterior Door Caulking				Positive Stop (Not Analyzed)
19A-RM-0707 132004891-0039	Exterior East - Green Glue Daub Associated with Exterior Wall Insulation	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19B-RM-0707 132004891-0040	Exterior East - Green Glue Daub Associated with Exterior Wall Insulation	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
20A-RM-0707 132004891-0041	Exterior North - Black Foundation Waterproofing	Black Fibrous Homogeneous		88% Non-fibrous (Other)	12% Chrysotile
20B-RM-0707 132004891-0042	Exterior North - Black Foundation Waterproofing				Positive Stop (Not Analyzed)
21A-RM-0707 132004891-0043	Basement B-Section Crawlspace - Green Glue on Insulation	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21B-RM-0707 132004891-0044	Basement B-Section Crawlspace - Green Glue on Insulation	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22A-RM-0707 132004891-0045	Third Floor 315 - 4" Tan Baseboard	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22B-RM-0707 132004891-0046	Third Floor 315 - 4" Tan Baseboard	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22A1A-RM-0707 132004891-0047	Third Floor 315 - Light Brown Adhesive Associated with Sample 22	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22A1B-RM-0707 132004891-0048	Third Floor 315 - Light Brown Adhesive Associated with Sample 22	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 07/27/2020 18:54:25



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<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 132004891
Customer ID: ENVI54
Customer PO: 20160717.A30T1
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
23A-RM-0707 <small>132004891-0049</small>	Third Floor 315 - 12"x12" Brown/Pink Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23B-RM-0707 <small>132004891-0050</small>	Second Floor 216 - 12"x12" Brown/Pink Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24A-RM-0707 <small>132004891-0051</small>	Third Floor 315 - Brown Mastic Associated with Sample 23	Brown/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24B-RM-0707 <small>132004891-0052</small>	Second Floor 216 - Brown Mastic Associated with Sample 23	Brown/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25A-RM-0707 <small>132004891-0053</small>	Third Floor 315 - Off-White Glue Under Countertop	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25B-RM-0707 <small>132004891-0054</small>	Third Floor 315 - Off-White Glue Under Countertop	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26A-RM-0707 <small>132004891-0055</small>	Third Floor 315 - White Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
26B-RM-0707 <small>132004891-0056</small>	Second Floor 216 - White Joint Compound				Positive Stop (Not Analyzed)
27A-RM-0707 <small>132004891-0057</small>	Third Floor 315 - 4" Black Baseboard Under Cabinet	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27B-RM-0707 <small>132004891-0058</small>	Third Floor 315 - 4" Black Baseboard Under Cabinet	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28A-RM-0707 <small>132004891-0059</small>	Third Floor 315 - Tan Adhesive Associated with Sample 27	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28B-RM-0707 <small>132004891-0060</small>	Third Floor 315 - Tan Adhesive Associated with Sample 27	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29A-RM-0707 <small>132004891-0061</small>	Third Floor 315 - Black Window Caulking	Gray Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
29B-RM-0707 <small>132004891-0062</small>	Second Floor 216 - Black Window Caulking				Positive Stop (Not Analyzed)
30A-RM-0707 <small>132004891-0063</small>	Exterior Third Floor 315 - Black Exterior Window Glazing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30B-RM-0707 <small>132004891-0064</small>	Exterior Third Floor 315 - Black Exterior Window Glazing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31A-RM-0707 <small>132004891-0065</small>	Third Floor 315 - 2'x2' White Fissured Spline Ceiling Panel	Gray Fibrous Homogeneous	65% Min. Wool	35% Non-fibrous (Other)	None Detected
31B-RM-0707 <small>132004891-0066</small>	Second Floor 216 - 2'x2' White Fissured Spline Ceiling Panel	Gray Fibrous Homogeneous	65% Min. Wool	35% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
32A-RM-0707 <small>132004891-0067</small>	Third Floor 315 - Off-White Door Lite Window Glazing	Tan Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
32B-RM-0707 <small>132004891-0068</small>	Third Floor 315 - Off-White Door Lite Window Glazing				Positive Stop (Not Analyzed)
33A-RM-0707 <small>132004891-0069</small>	Third Floor Hallway - 12"x12" Tan with Red Streaks Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33B-RM-0707 <small>132004891-0070</small>	Third Floor Hallway - 12"x12" Tan with Red Streaks Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34A-RM-0707 <small>132004891-0071</small>	Third Floor Hallway - Tan Adhesive Associated with Sample 33	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34B-RM-0707 <small>132004891-0072</small>	Third Floor Hallway - Tan Adhesive Associated with Sample 35	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34C-RM-0707 <small>132004891-0073</small>	Second Floor 212 - Tan Adhesive Associated with Sample 36	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35A-RM-0707 <small>132004891-0074</small>	Third Floor Hallway - 12'x12" Pink FloorTile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35B-RM-0707 <small>132004891-0075</small>	Third Floor Hallway - 12'x12" Pink FloorTile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36A-RM-0707 <small>132004891-0076</small>	Third Floor Hallway - 12'x12" Light Red FloorTile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36B-RM-0707 <small>132004891-0077</small>	Second Floor 212 - 12'x12" Light Red FloorTile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37A-RM-0707 <small>132004891-0078</small>	Third Floor Hallway - 4" Vinyl Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37B-RM-0707 <small>132004891-0079</small>	Third Floor Hallway - 4" Vinyl Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38A-RM-0707 <small>132004891-0080</small>	Third Floor Hallway - Tan Adhesive Associated with Sample 37	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38B-RM-0707 <small>132004891-0081</small>	Third Floor Hallway - Tan Adhesive Associated with Sample 37	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
39A-RM-0707 <small>132004891-0082</small>	Third Floor 316 - Black Sink Undercoat	Black Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
39B-RM-0707 <small>132004891-0083</small>	Second Floor 216 - Black Sink Undercoat				Positive Stop (Not Analyzed)

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			% Fibrous	% Non-Fibrous	% Type
40A-RM-0707 <small>132004891-0084</small>	Third Floor - Cantilever Topping Slab	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
40B-RM-0707 <small>132004891-0085</small>	Third Floor - Cantilever Topping Slab	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
41A-RM-0707 <small>132004891-0086</small>	Auditorium - White Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
41B-RM-0707 <small>132004891-0087</small>	Auditorium - White Joint Compound				Positive Stop (Not Analyzed)
42A-RM-0707 <small>132004891-0088</small>	Third Floor 310 - 2'x2' White Fissured Ceiling Panels	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
42B-RM-0707 <small>132004891-0089</small>	Third Floor 310 - 2'x2' White Fissured Ceiling Panels	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
43A-RM-0707 <small>132004891-0090</small>	Third Floor 310 - White Wall Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
43B-RM-0707 <small>132004891-0091</small>	Third Floor 310 - White Wall Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44A-RM-0707 <small>132004891-0092</small>	Third Floor 315 - Black Window Sill Mastic	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
44B-RM-0707 <small>132004891-0093</small>	Locker Room - Black Window Sill Mastic	Brown Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
45A-RM-0707 <small>132004891-0094</small>	Third Floor 315 - White Adhesive Associated with HVAC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
45B-RM-0707 <small>132004891-0095</small>	Third Floor 315 - White Adhesive Associated with HVAC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
46A-RM-0707 <small>132004891-0096</small>	Third Floor 312 - Tan Door Caulking	Gray Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
46B-RM-0707 <small>132004891-0097</small>	Third Floor 312 - Tan Door Caulking				Positive Stop (Not Analyzed)
47A-RM-0707 <small>132004891-0098</small>	Third Floor Women's Bathroom - White Ceiling Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
47B-RM-0707 <small>132004891-0099</small>	Third Floor Women's Bathroom - White Ceiling Joint Compound				Positive Stop (Not Analyzed)
48A-RM-0707 <small>132004891-0100</small>	Third Floor Women's Bathroom - Gray Gypsum Board Ceiling	Gray/Tan Fibrous Homogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
48B-RM-0707 132004891-0101	Third Floor Women's Bathroom - Gray Gypsum Board Ceiling	Gray/Tan Fibrous Homogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
49A-RM-0707 132004891-0102	Third Floor Hallway - Tan Ceiling Soffit Joint Compound	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
49B-RM-0707 132004891-0103	Second Floor 212 - Tan Ceiling Soffit Joint Compound				Positive Stop (Not Analyzed)
50A-RM-0707 132004891-0104	Third Floor Women's Bathroom - Black Epoxy Baseboard	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
50B-RM-0707 132004891-0105	Third Floor Women's Bathroom - Black Epoxy Baseboard	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51A-RM-0707 132004891-0106	Third Floor Library - 12"x12" Light Brown Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
51B-RM-0707 132004891-0107	Third Floor Library - 12"x12" Light Brown Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
52A-RM-0707 132004891-0108	Third Floor Hallway - Gray Fire Door Caulking	Gray Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
52B-RM-0707 132004891-0109	Third Floor Hallway - Gray Fire Door Caulking				Positive Stop (Not Analyzed)
53A-RM-0707 132004891-0110	Third Floor 323 - Black Glue Daub on Wall	Black Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
53B-RM-0707 132004891-0111	Third Floor 339 - Black Glue Daub on Wall Behind Sink Counter				Positive Stop (Not Analyzed)
54A-RM-0707 132004891-0112	Third Floor 323 - 2'x2' White Ceiling Panel	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
54B-RM-0707 132004891-0113	Third Floor 323 - 2'x2' White Ceiling Panel	Gray/White Fibrous Homogeneous	40% Cellulose 30% Min. Wool	30% Non-fibrous (Other)	None Detected
55A-RM-0707 132004891-0114	Third Floor 323 - 12"x12" Black Floor Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
55B-RM-0707 132004891-0115	Third Floor 323 - 12"x12" Black Floor Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
56A-RM-0707 132004891-0116	Third Floor 325 - Gray Cement Wall Panel Fume Hood	Gray Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
56B-RM-0707 132004891-0117	Third Floor 325 - Gray Cement Wall Panel Fume Hood				Positive Stop (Not Analyzed)
57A-RM-0707 132004891-0118	Third Floor 325 - Brown Panel on Bottom of Fume Hood Cabinet	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
57B-RM-0707 132004891-0119	Third Floor 325 - Brown Panel on Bottom of Fume Hood Cabinet	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
58A-RM-0707 132004891-0120	Third Floor 347 - White Paper Behind Speaker Box	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
58B-RM-0707 132004891-0121	Third Floor 347 - White Paper Behind Speaker Box	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
59A-RM-0707 132004891-0122	Second Floor 216 - 4" Tan Baseboard	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
59B-RM-0707 132004891-0123	Second Floor 216 - 4" Tan Baseboard	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
60A-RM-0707 132004891-0124	Second Floor 216 - Tan Adhesive Associated with Sample 59	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
60B-RM-0707 132004891-0125	Second Floor 216 - Tan Adhesive Associated with Sample 59	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
61A-RM-0707 132004891-0126	Second Floor 216 - Black Interior Window Glazing	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
61B-RM-0707 132004891-0127	Second Floor 216 - Black Interior Window Glazing	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
62A-RM-0707 132004891-0128	Second Floor 216 - Light Brown Door Caulking	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
62B-RM-0707 132004891-0129	Second Floor 216 - Light Brown Door Caulking				Positive Stop (Not Analyzed)
63A-RM-0707 132004891-0130	Second Floor Hallway - 12"x12" Pink with White Specked Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
63B-RM-0707 132004891-0131	Second Floor Hallway - 12"x12" Pink with White Specked Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
64A-RM-0707 132004891-0132	Second Floor Hallway - Tan Adhesive Associated with Sample 63	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
64B-RM-0707 132004891-0133	Second Floor Hallway - Tan Adhesive Associated with Sample 63	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65A-RM-0707 132004891-0134	Second Floor 216 - White Plaster Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65B-RM-0707 132004891-0135	Second Floor 216 - White Plaster Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
65C-RM-0707 132004891-0136	Second Floor 216 - White Plaster Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65D-RM-0707 132004891-0137	Second Floor 216 - White Plaster Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
65E-RM-0707 132004891-0138	Second Floor 216 - White Plaster Skim Coat	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
66A-RM-0707 132004891-0139	Second Floor 216 - Gray Plaster Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
66B-RM-0707 132004891-0140	Second Floor 216 - Gray Plaster Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
66C-RM-0707 132004891-0141	Second Floor 216 - Gray Plaster Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
66D-RM-0707 132004891-0142	Second Floor 216 - Gray Plaster Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
66E-RM-0707 132004891-0143	Second Floor 216 - Gray Plaster Rough Coat	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
67A-RM-0707 132004891-0144	Second Floor 225 - Gray Floor Leveler	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
67B-RM-0707 132004891-0145	Second Floor 225 - Gray Floor Leveler	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
68A-RM-0707 132004891-0146	Second Floor 224 - Gray Gypsum Ceiling	Tan/White Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
68B-RM-0707 132004891-0147	Second Floor 224 - Gray Gypsum Ceiling	Gray/Tan Fibrous Homogeneous	10% Cellulose 2% Glass	88% Non-fibrous (Other)	None Detected
69A-RM-0707 132004891-0148	Gym - Tan Residual Glue Daub on Wood Strapping	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
69B-RM-0707 132004891-0149	Gym - Tan Residual Glue Daub on Wood Strapping	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
70A-RM-0707 132004891-0150	Gym - Black Gym Floor Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
70B-RM-0707 132004891-0151	Gym - Black Gym Floor Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
71A-RM-0707 132004891-0152	Gym - White Fireproofing on Ceiling	Gray Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
71B-RM-0707 132004891-0153	Gym - White Fireproofing on Ceiling	Gray Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
71C-RM-0707 132004891-0154	Gym - White Fireproofing on Ceiling	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
71D-RM-0707 132004891-0155	Gym - White Fireproofing on Ceiling	Gray Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
71E-RM-0707 132004891-0156	Gym - White Fireproofing on Ceiling	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
71F-RM-0707 132004891-0157	Gym - White Fireproofing on Ceiling	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
71G-RM-0707 132004891-0158	Gym - White Fireproofing on Ceiling	Gray Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
72A-RM-0707 132004891-0159	Art Room - Black Interior Window Glazing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
72B-RM-0707 132004891-0160	Art Room - Black Interior Window Glazing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
73A-RM-0707 132004891-0161	First Floor 128 - White Sink Undercoat	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
73B-RM-0707 132004891-0162	First Floor 128 - White Sink Undercoat	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
74A-RM-0707 132004891-0163	First Floor Mechanical Room - Brown Stick Pin Adhesive Associated with Duct Work	Brown Fibrous Homogeneous		85% Non-fibrous (Other)	15% Chrysotile
74B-RM-0707 132004891-0164	First Floor Mechanical Room - Brown Stick Pin Adhesive Associated with Duct Work				Positive Stop (Not Analyzed)
75A-RM-0707 132004891-0165	First Floor Mechanical Room - Black Vibration Isolator	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
75B-RM-0707 132004891-0166	First Floor Mechanical Room - Black Vibration Isolator	Black Fibrous Homogeneous	30% Glass	70% Non-fibrous (Other)	None Detected
76A-RM-0707 132004891-0167	First Floor Hallway - 12"x12" Off-White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
76B-RM-0707 132004891-0168	First Floor 128 Bathroom - 12"x12" Off-White Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
77A-RM-0707 132004891-0169	First Floor Hallway - 12"x12" Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
77B-RM-0707 132004891-0170	First Floor Hallway - 12"x12" Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
78A-RM-0707 132004891-0171	First Floor Hallway - Brown Adhesive Associated with Sample 76A	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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78B-RM-0707 132004891-0172	First Floor Hallway - Brown Adhesive Associated with Sample 77	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
79A-RM-0707 132004891-0173	First Floor 128 - 12"x12" Dark Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
79B-RM-0707 132004891-0174	First Floor 128 - 12"x12" Dark Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
80A-RM-0707 132004891-0175	First Floor 128 - Tan Adhesive Associated with Sample 79	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
80B-RM-0707 132004891-0176	First Floor 128 - Tan Adhesive Associated with Sample 79	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
81A-RM-0707 132004891-0177	First Floor 128 Bathroom - Black Adhesive Associated with 76B	Brown Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
<i>Chrysotile detected in brown floor tile. No black adhesive present.</i>					
81B-RM-0707 132004891-0178	First Floor 128 Bathroom - Black Adhesive Associated with 76B				Positive Stop (Not Analyzed)
82A-RM-0707 132004891-0179	First Floor 128 - 4" Dark Blue Baseboard	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
82B-RM-0707 132004891-0180	First Floor 128 - 4" Dark Blue Baseboard	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
83A-RM-0707 132004891-0181	First Floor 128 - Tan Adhesive Associated with Sample 82	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
83B-RM-0707 132004891-0182	First Floor 128 - Tan Adhesive Associated with Sample 82	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
84A-RM-0707 132004891-0183	First Floor 128 Bathroom - 12"x12" Light Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
84B-RM-0707 132004891-0184	First Floor 128 Bathroom - 12"x12" Light Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
85A-RM-0707 132004891-0185	First Floor 128 Bathroom - Tan Adhesive Associated with Sample 84	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
85B-RM-0707 132004891-0186	First Floor 128 Bathroom - Tan Adhesive Associated with Sample 84	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86A-RM-0707 132004891-0187	First Floor 128 Bathroom - 12"x12" Pink Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86B-RM-0707 132004891-0188	First Floor 128 Bathroom - 12"x12" Pink Floor Tile	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 07/27/2020 18:54:25



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EMSL Order: 132004891

Customer ID: ENVI54

Customer PO: 20160717.A30T1

Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
87A-RM-0707 <small>132004891-0189</small>	First Floor 128 Bathroom - Tan Adhesive Associated with Sample 86	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
87B-RM-0707 <small>132004891-0190</small>	First Floor 128 Bathroom - Tan Adhesive Associated with Sample 86	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
88A-RM-0707 <small>132004891-0191</small>	First Floor 128 Bathroom - 12"x12" Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
88B-RM-0707 <small>132004891-0192</small>	First Floor 128 Bathroom - 12"x12" Blue Floor Tile	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
89A-RM-0707 <small>132004891-0193</small>	First Floor Mechanical Room - Gray Duct Seam Sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
89B-RM-0707 <small>132004891-0194</small>	First Floor Mechanical Room - Gray Duct Seam Sealant	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
90A-RM-0707 <small>132004891-0195</small>	First Floor Mechanical Room - Dark Green Duct Seam Sealant	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
90B-RM-0707 <small>132004891-0196</small>	First Floor Mechanical Room - Dark Green Duct Seam Sealant	Gray/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
91A-RM-0707 <small>132004891-0197</small>	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Hot Water Boiler	White Fibrous Homogeneous	25% Min. Wool	75% Non-fibrous (Other)	None Detected
91B-RM-0707 <small>132004891-0198</small>	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Hot Water Boiler	White Fibrous Homogeneous	25% Min. Wool	75% Non-fibrous (Other)	None Detected
91C-RM-0707 <small>132004891-0199</small>	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Hot Water Boiler	White Fibrous Homogeneous	25% Min. Wool	75% Non-fibrous (Other)	None Detected
92A-RM-0707 <small>132004891-0200</small>	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Drain Pipes	White Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
92B-RM-0707 <small>132004891-0201</small>	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Drain Pipes	White Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
92C-RM-0707 <small>132004891-0202</small>	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Drain Pipes	White Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
93A-RM-0707 <small>132004891-0203</small>	First Floor Electrical Room - Red Pipe Penetration Sealant	Red Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected

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Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
93B-RM-0707 132004891-0204	First Floor Electrical Room - Red Pipe Penetration Sealant	Red Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
94A-RM-0707 132004891-0205	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Cold Water Pipes	White Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
94B-RM-0707 132004891-0206	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Cold Water Pipes	White Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
94C-RM-0707 132004891-0207	First Floor Mechanical Room - White Mudded Pipe Insulation Associated with Cold Water Pipes	White Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
95A-RM-0707 132004891-0208	First Floor Crawlspace - Green Glue Adhesive Associated with Insulation	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
95B-RM-0707 132004891-0209	First Floor Crawlspace - Green Glue Adhesive Associated with Insulation	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
96A-RM-0707 132004891-0210	First Floor Crawlspace - Gray Mudded Pipe Fittings	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
96B-RM-0707 132004891-0211	First Floor Crawlspace - Gray Mudded Pipe Fittings	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
96C-RM-0707 132004891-0212	First Floor Crawlspace - Gray Mudded Pipe Fittings	Gray Fibrous Homogeneous	30% Min. Wool	70% Non-fibrous (Other)	None Detected
97A-RM-0707 132004891-0213	First Floor Mechanical Room - Dark Gray Adhesive on Blower	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
97B-RM-0707 132004891-0214	First Floor Mechanical Room - Dark Gray Adhesive on Blower	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
98A-RM-0707 132004891-0215	First Floor Kitchen to Cafeteria Doors - Black Window Glazing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
98B-RM-0707 132004891-0216	First Floor Kitchen to Cafeteria Doors - Black Window Glazing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
99A-RM-0707 132004891-0217	First Floor Ramp to Second Floor - 12"x12" Dark Gray with Black Streaks	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
99B-RM-0707 132004891-0218	First Floor Ramp to Second Floor - 12"x12" Dark Gray with Black Streaks	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 132004891
Customer ID: ENVI54
Customer PO: 20160717.A30T1
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
100A-RM-0707 <small>132004891-0219</small>	First Floor Ramp to Second Floor - Dark Tan Adhesive Associated with Sample 99	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
100B-RM-0707 <small>132004891-0220</small>	First Floor Ramp to Second Floor - Dark Tan Adhesive Associated with Sample 99	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
101A-RM-0707 <small>132004891-0221</small>	First Floor Hallway - 4" Light Gray Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
101B-RM-0707 <small>132004891-0222</small>	First Floor Hallway - 4" Light Gray Baseboard	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
102A-RM-0707 <small>132004891-0223</small>	First Floor Hallway - Tan Adhesive Associated with Sample 101	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
102B-RM-0707 <small>132004891-0224</small>	First Floor Hallway - Tan Adhesive Associated with Sample 101	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
103A-RM-0707 <small>132004891-0225</small>	Second Floor 215 - 12"x12" Light Blue with Dark Blue Speck	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
103B-RM-0707 <small>132004891-0226</small>	Second Floor 215 - 12"x12" Light Blue with Dark Blue Speck	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
104A-RM-0707 <small>132004891-0227</small>	Second Floor 215 - Tan Adhesive Associated with 103	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
104B-RM-0707 <small>132004891-0228</small>	Second Floor 215 - Tan Adhesive Associated with 103	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
105A-RM-0707 <small>132004891-0229</small>	Second Floor 215 - 12"x12" Off-White with Blue Streaks	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
105B-RM-0707 <small>132004891-0230</small>	Second Floor 215 - 12"x12" Off-White with Blue Streaks	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Order: 132004891

Customer ID: ENVI54

Customer PO: 20160717.A30T1

Project ID:

Analyst(s)

Kevin McKenzie (206)

Steve Grise, Laboratory Manager
or Other Approved Signatory

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

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EMSL Order: 132004891

Customer ID: ENVI54

Customer PO: 20160717.A30T1

Project ID:

Attention: Dustin Diedricksen
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Phone: (617) 778-3750

Fax:

Received Date: 07/20/2020 8:30 AM

Analysis Date: 07/31/2020

Collected Date: 07/07/2020

Project: 20160717.A30 Task 1 / Tobin Montessori & Vassal Lane Upper Schools Demolition Project - 197 Vassal Lane, Cambridge, M

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
02A-RM-0707 132004891-0003	First Floor Cafeteria - Tan Glue Daubs Associated with Tectum Ceiling Panel	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
19B-RM-0707 132004891-0040	Exterior East - Green Glue Daub Associated with Exterior Wall Insulation	Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
21A-RM-0707 132004891-0043	Basement B-Section Crawlspace - Green Glue on Insulation	Green Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
24A-RM-0707 132004891-0051	Third Floor 315 - Brown Mastic Associated with Sample 23	Brown/Yellow Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
33A-RM-0707 132004891-0069	Third Floor Hallway - 12"x12" Tan with Red Streaks Floor Tile	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
34A-RM-0707 132004891-0071	Third Floor Hallway - Tan Adhesive Associated with Sample 33	Yellow Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
36A-RM-0707 132004891-0076	Third Floor Hallway - 12"x12" Light Red Floor Tile	Pink Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
51A-RM-0707 132004891-0106	Third Floor Library - 12"x12" Light Brown Floor Tile	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
55A-RM-0707 132004891-0114	Third Floor 323 - 12"x12" Black Floor Tile	Black Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
64A-RM-0707 132004891-0132	Second Floor Hallway - Tan Adhesive Associated with Sample 63	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
78A-RM-0707 132004891-0171	First Floor Hallway - Brown Adhesive Associated with Sample 76A	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
80A-RM-0707 132004891-0175	First Floor 128 - Tan Adhesive Associated with Sample 79	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA

Initial report from: 07/31/2020 14:21:50



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EMSL Order: 132004891
Customer ID: ENVI54
Customer PO: 20160717.A30T1
Project ID:

Attention: Dustin Diedricksen Fuss & O'Neill, Inc. 146 Hartford Road Manchester, CT 06040	Phone: (617) 778-3750 Fax: Received Date: 07/20/2020 8:30 AM Analysis Date: 07/31/2020 Collected Date: 07/07/2020
Project: 20160717.A30 Task 1 / Tobin Montessori & Vassal Lane Upper Schools Demolition Project - 197 Vassal Lane, Cambridge, M	

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
85A-RM-0707 132004891-0185	First Floor 128 Bathroom - Tan Adhesive Associated with Sample 84	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
87A-RM-0707 132004891-0189	First Floor 128 Bathroom - Tan Adhesive Associated with Sample 86	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
100A-RM-0707 132004891-0219	First Floor Ramp to Second Floor - Dark Tan Adhesive Associated with Sample 99	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
104A-RM-0707 132004891-0227	Second Floor 215 - Tan Adhesive Associated with 103	Tan Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
105A-RM-0707 132004891-0229	Second Floor 215 - 12"x12" Off-White with Blue Streaks	White Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected

Analyst(s)

Matthew Conley (17)

Steve Grise, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Woburn, MA

Initial report from: 07/31/2020 14:21:50



108 Myrtle Street, Suite 502, Quincy, MA 02171

Phone (617) 282-4675 Fax (617) 282-8253

Asbestos Bulk Sample Chain-of-Custody Form

Sheet 1 of 9

Project Name: Tobin Montessori & Vassal Lane Upper Schools Demolition Project **Project No.:** 20160717.A30 **Task:** 1

Building Name/Number: _____ **Project Manager:** Robert Mallett

Site Address: 197 Vassal Lane, Cambridge, MA **Total # of Samples:** 230

Sample ID (#-Initials-Date)	Material Type (Size, Color, Description, Material)	Sample Location	Comments/ Quantities
01A-RM-0707	Tan exterior joint caulking	Exterior, south entrance	
01B-RM-0707	Tan exterior joint caulking	Exterior, east entrance	
* 02A-RM-0707	Tan glue daubs associated with tectum ceiling panel	First floor, cafeteria	
02B-RM-0707	Tan glue daubs associated with tectum ceiling panel	First floor, cafeteria	
03A-RM-0707	Tan tectum ceiling panels	First floor, cafeteria	
03B-RM-0707	Tan tectum ceiling panels	First floor, cafeteria	
04A-RM-0707	4" black vinyl baseboard	First floor, cafeteria	
04B-RM-0707	4" black vinyl baseboard	First floor, cafeteria	
05A-RM-0707	Tan adhesive associated with 04	First floor, cafeteria	
05B-RM-0707	Tan adhesive associated with 04	First floor, cafeteria	
* 06A-RM-0707	12" by 12" brown floor tile	First floor, cafeteria	
06B-RM-0707	12" by 12" brown floor tile	First floor, cafeteria	
* 07A-RM-0707	Black adhesive associated with 06	First floor, cafeteria	
07B-RM-0707	Black adhesive associated with 06	First floor, cafeteria	
08A-RM-0707	Gray top of door caulking	First floor, cafeteria	
08B-RM-0707	Gray top of door caulking	First floor, cafeteria	
09A-RM-0707	Tan tectum wall panel adhesive	First floor, cafeteria	
09B-RM-0707	Tan tectum wall panel adhesive	First floor, cafeteria	
10A-RM-0707	Gray caulking, CMU to plaster	First floor, cafeteria	
10B-RM-0707	Gray caulking, CMU to plaster	First floor, cafeteria	
11A-RM-0707	Brown interior window glazing	First floor, cafeteria	
11B-RM-0707	Brown interior window glazing	First floor, cafeteria	
12A-RM-0707	Gray interior window caulking	First floor, cafeteria	
12B-RM-0707	Gray interior window caulking	First floor, cafeteria	

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13A-RM-0707	Tan adhesive associated with wood strapping	First floor, cafeteria	
13B-RM-0707	Tan adhesive associated with wood strapping	First floor, cafeteria	
14A-RM-0707	Black through wall flashing- felt	Exterior, auditorium	
14B-RM-0707	Black through wall flashing- felt	Exterior, east	
14C-RM-0707	Black through wall flashing- felt	Exterior	
15A-RM-0707	Black through wall flashing- mastic	Exterior, auditorium	
15B-RM-0707	Black through wall flashing- mastic	Exterior, east	
15C-RM-0707	Black through wall flashing- mastic	Exterior	
★ 16A-RM-0707	Black mastic on auditorium structural concrete	Exterior, auditorium	
16B-RM-0707	Black mastic on auditorium structural concrete	Exterior, auditorium	
17A-RM-0707	Brown exterior window caulking	Exterior, east	
17B-RM-0707	Brown exterior window caulking	Exterior, east	
18A-RM-0707	White exterior door caulking	Exterior, east	
18B-RM-0707	White exterior door caulking	Exterior, east	
★ 19A-RM-0707	Green glue daub associated with exterior wall insulation	Exterior, east	
19B-RM-0707	Green glue daub associated with exterior wall insulation	Exterior, east	
20A-RM-0707	Black foundation waterproofing	Exterior, north	
20B-RM-0707	Black foundation waterproofing	Exterior, north	
★ 21A-RM-0707	Green glue on insulation	Basement, B-section crawl space	
21B-RM-0707	Green glue on insulation	Basement, B-section crawl space	
22A-RM-0707	4" tan baseboard	Third floor, 315	
22B-RM-0707	4" tan baseboard	Third floor, 315	
22A1A-RM-0707	Light brown adhesive associated with sample 22	Third floor, 315	
22A1B-RM-0707	Light brown adhesive associated with sample 22	Third floor, 315	
23A-RM-0707	12" by 12" brown/pink floor tile	Third floor, 315	
23B-RM-0707	12" by 12" brown/pink floor tile	Second floor, 216	
★ 24A-RM-0707	Brown mastic associated with sample 23	Third floor, 315	
24B-RM-0707	Brown mastic associated with sample 23	Second floor, 216	
25A-RM-0707	Off-white glue under countertop	Third floor, 315	

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25B-RM-0707	Off-white glue under countertop	Third floor, 315	
26A-RM-0707	White joint compound	Third floor, 315	
26B-RM-0707	White joint compound	Second floor, 216	
27A-RM-0707	4" black baseboard under cabinet	Third floor, 315	
27B-RM-0707	4" black baseboard under cabinet	Third floor, 315	
28A-RM-0707	Tan adhesive associated with sample 27	Third floor, 315	
28B-RM-0707	Tan adhesive associated with sample 27	Third floor, 315	
29A-RM-0707	Black window caulking	Third floor, 315	
29B-RM-0707	Black window caulking	Second floor, 216	
30A-RM-0707	Black exterior window glazing	Exterior, third floor, 315	
30B-RM-0707	Black exterior window glazing	Exterior, third floor, 315	
31A-RM-0707	2' by 2' white fissured spline ceiling panel	Third floor, 315	
31B-RM-0707	2' by 2' white fissured spline ceiling panel	Second floor, 216	
32A-RM-0707	Off-white door lite window glazing	Third floor, 315	
32B-RM-0707	Off-white door lite window glazing	Third floor, 315	
① 33A-RM-0707	12" by 12" tan with red streaks floor tile	Third floor, hallway	
33B-RM-0707	12" by 12" tan with red streaks floor tile	Third floor, hallway	
★ 34A-RM-0707	Tan adhesive associate with sample 33	Third floor, hallway	
34B-RM-0707	Tan adhesive associate with sample 35	Third floor, hallway	
34C-RM-0707	Tan adhesive associate with sample 36	Second floor, 212	
35A-RM-0707	12" by 12" pink floor tile	Third floor, hallway	
35B-RM-0707	12" by 12" pink floor tile	Third floor, hallway	
★ 36A-RM-0707	12" by 12" light red floor tile	Third floor, hallway	
36B-RM-0707	12" by 12" light red floor tile	Second floor, 212	
37A-RM-0707	4" black vinyl baseboard	Third floor, hallway	
37B-RM-0707	4" black vinyl baseboard	Third floor, hallway	
38A-RM-0707	Tan adhesive associated with sample 37	Third floor, hallway	
38B-RM-0707	Tan adhesive associated with sample 37	Third floor, hallway	
39A-RM-0707	Black sink undercoat	Third floor, 316	



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39B-RM-0707	Black sink undercoat	Second floor, 216	
40A-RM-0707	Cantilever topping slab	Third floor	
40B-RM-0707	Cantilever topping slab	Third floor	
41A-RM-0707	White joint compound	Auditorium	
41B-RM-0707	White joint compound	Auditorium	
42A-RM-0707	2' by 2' white fissured ceiling panels	Third floor, 310	
42B-RM-0707	2' by 2' white fissured ceiling panels	Third floor, 310	
43A-RM-0707	White wall joint compound	Third floor, 310	
43B-RM-0707	White wall joint compound	Third floor, 310	
44A-RM-0707	Black window sill mastic	Third floor, 315	
44B-RM-0707	Black window sill mastic	Locker room	
45A-RM-0707	White adhesive associated with HVAC	Third floor, 315	
45B-RM-0707	White adhesive associated with HVAC	Third floor, 315	
46A-RM-0707	Tan door caulking	Third floor, 312	
46B-RM-0707	Tan door caulking	Third floor, 312	
47A-RM-0707	White ceiling joint compound	Third floor, women's bathroom	
47B-RM-0707	White ceiling joint compound	Third floor, women's bathroom	
48A-RM-0707	Gray gypsum board ceiling	Third floor, women's bathroom	
48B-RM-0707	Gray gypsum board ceiling	Third floor, women's bathroom	
49A-RM-0707	Tan ceiling soffit joint compound	Third floor, hallway	
49B-RM-0707	Tan ceiling soffit joint compound	Second floor, 212	
50A-RM-0707	Black epoxy baseboard	Third floor, women's bathroom	
50B-RM-0707	Black epoxy baseboard	Third floor, women's bathroom	
51A-RM-0707	12" by 12" light brown floor tile	Third floor, library	
51B-RM-0707	12" by 12" light brown floor tile	Third floor, library	
52A-RM-0707	Gray fire door caulking	Third floor, hallway	
52B-RM-0707	Gray fire door caulking	Third floor, hallway	
53A-RM-0707	Black glue daub on wall	Third floor, 323	
53B-RM-0707	Black glue daub on wall behind sink counter	Third floor, 339	

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54A-RM-0707	2' by 2' white ceiling panel	Third floor, 323	
54B-RM-0707	2' by 2' white ceiling panel	Third floor, 323	
★ 55A-RM-0707	12" by 12" black floor tile	Third floor, 323	
55B-RM-0707	12" by 12" black floor tile	Third floor, 323	
56A-RM-0707	Gray cement wall panel- fume hood	Third floor, 325	
56B-RM-0707	Gray cement wall panel- fume hood	Third floor, 325	
57A-RM-0707	Brown panel on bottom of fume hood cabinet	Third floor, 325	
57B-RM-0707	Brown panel on bottom of fume hood cabinet	Third floor, 325	
58A-RM-0707	White paper behind speaker box	Third floor, 347	
58B-RM-0707	White paper behind speaker box	Third floor, 347	
59A-RM-0707	4" tan baseboard	Second floor, 216	
59B-RM-0707	4" tan baseboard	Second floor, 216	
60A-RM-0707	Tan adhesive associated with sample 59	Second floor, 216	
60B-RM-0707	Tan adhesive associated with sample 59	Second floor, 216	
61A-RM-0707	Black interior window glazing	Second floor, 216	
61B-RM-0707	Black interior window glazing	Second floor, 216	
62A-RM-0707	Light brown door caulking	Second floor, 216	
62B-RM-0707	Light brown door caulking	Second floor, 216	
63A-RM-0707	12" by 12" pink with white specked floor tile	Second floor, hallway	
63B-RM-0707	12" by 12" pink with white specked floor tile	Second floor, hallway	
★ 64A-RM-0707	Tan adhesive associated with sample 63	Second floor, hallway	
64B-RM-0707	Tan adhesive associated with sample 63	Second floor, hallway	
65A-RM-0707	White plaster skim coat	Second floor, 216	
65B-RM-0707	White plaster skim coat	Second floor, 216	
65C-RM-0707	White plaster skim coat	Second floor, 216	
65D-RM-0707	White plaster skim coat	Second floor, 216	
65E-RM-0707	White plaster skim coat	Second floor, 216	
66A-RM-0707	Gray plaster rough coat	Second floor, 216	
66B-RM-0707	Gray plaster rough coat	Second floor, 216	



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66C-RM-0707	Gray plaster rough coat	Second floor, 216	
66D-RM-0707	Gray plaster rough coat	Second floor, 216	
66E-RM-0707	Gray plaster rough coat	Second floor, 216	
67A-RM-0707	Gray floor leveler	Second floor, 225	
67B-RM-0707	Gray floor leveler	Second floor, 225	
68A-RM-0707	Gray gypsum ceiling	Second floor, 224	
68B-RM-0707	Gray gypsum ceiling	Second floor, 224	
69A-RM-0707	Tan residual glue daub on wood strapping	Gym	
69B-RM-0707	Tan residual glue daub on wood strapping	Gym	
70A-RM-0707	Black gym floor adhesive	Gym	
70B-RM-0707	Black gym floor adhesive	Gym	
71A-RM-0707	White fireproofing on ceiling	Gym	
71B-RM-0707	White fireproofing on ceiling	Gym	
71C-RM-0707	White fireproofing on ceiling	Gym	
71D-RM-0707	White fireproofing on ceiling	Gym	
71E-RM-0707	White fireproofing on ceiling	Gym	
71F-RM-0707	White fireproofing on ceiling	Gym	
71G-RM-0707	White fireproofing on ceiling	Gym	
72A-RM-0707	Black interior window glazing	Art room	
72B-RM-0707	Black interior window glazing	Art room	
73A-RM-0707	White sink undercoat	First floor, 128	
73B-RM-0707	White sink undercoat	First floor, 128	
74A-RM-0707	Brown stick pin adhesive associated with duct work	First floor, mechanical room	
74B-RM-0707	Brown stick pin adhesive associated with duct work	First floor, mechanical room	
75A-RM-0707	Black vibration isolator	First floor, mechanical room	
75B-RM-0707	Black vibration isolator	First floor, mechanical room	
76A-RM-0707	12" by 12" off-white floor tile	First floor, hallway	
76B-RM-0707	12" by 12" off-white floor tile	First floor, 128 bathroom	
77A-RM-0707	12" by 12" blue floor tile	First floor, hallway	

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77B-RM-0707	12" by 12" blue floor tile	First floor, hallway	
★ 78A-RM-0707	Brown adhesive associated with sample 76A	First floor, hallway	
78B-RM-0707	Brown adhesive associated with sample 77	First floor, hallway	
79A-RM-0707	12" by 12" dark blue floor tile	First floor, 128	
79B-RM-0707	12" by 12" dark blue floor tile	First floor, 128	
★ 80A-RM-0707	Tan adhesive associate with sample 79	First floor, 128	
80B-RM-0707	Tan adhesive associate with sample 79	First floor, 128	
81A-RM-0707	Black adhesive associated with 76B	First floor, 128, bathroom	
81B-RM-0707	Black adhesive associated with 76B	First floor, 128, bathroom	
82A-RM-0707	4" dark blue baseboard	First floor, 128	
82B-RM-0707	4" dark blue baseboard	First floor, 128	
83A-RM-0707	Tan adhesive associated with sample 82	First floor, 128	
83B-RM-0707	Tan adhesive associated with sample 82	First floor, 128	
84A-RM-0707	12" by 12" light blue floor tile	First floor, 128, bathroom	
84B-RM-0707	12" by 12" light blue floor tile	First floor, 128, bathroom	
★ 85A-RM-0707	Tan adhesive associated with sample 84	First floor, 128, bathroom	
85B-RM-0707	Tan adhesive associated with sample 84	First floor, 128, bathroom	
86A-RM-0707	12" by 12" pink floor tile	First floor, 128, bathroom	
86B-RM-0707	12" by 12" pink floor tile	First floor, 128, bathroom	
★ 87A-RM-0707	Tan adhesive associated with sample 86	First floor, 128, bathroom	
87B-RM-0707	Tan adhesive associated with sample 88	First floor, 128, bathroom	
88A-RM-0707	12" by 12" blue floor tile	First floor, 128, bathroom	
88B-RM-0707	12" by 12" blue floor tile	First floor, 128, bathroom	
89A-RM-0707	Gray duct seam sealant	First floor, mechanical room	
89B-RM-0707	Gray duct seam sealant	First floor, mechanical room	
90A-RM-0707	Dark green duct seam sealant	First floor, mechanical room	
90B-RM-0707	Dark green duct seam sealant	First floor, mechanical room	
91A-RM-0707	White mudded pipe insulation associated with hot water boiler	First floor, mechanical room	
91B-RM-0707	White mudded pipe insulation associated with hot water boiler	First floor, mechanical room	

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91C-RM-0707	White mudded pipe insulation associated with hot water boiler	First floor, mechanical room	
92A-RM-0707	White mudded pipe insulation associated with drain pipes	First floor, mechanical room	
92B-RM-0707	White mudded pipe insulation associated with drain pipes	First floor, mechanical room	
92C-RM-0707	White mudded pipe insulation associated with drain pipes	First floor, mechanical room	
93A-RM-0707	Red pipe penetration sealant	First floor, electrical room	
93B-RM-0707	Red pipe penetration sealant	First floor, electrical room	
94A-RM-0707	White mudded pipe insulation associated with cold water pipes	First floor, mechanical room	
94B-RM-0707	White mudded pipe insulation associated with cold water pipes	First floor, mechanical room	
94C-RM-0707	White mudded pipe insulation associated with cold water pipes	First floor, mechanical room	
95A-RM-0707	Green glue adhesive associated with insulation	First floor, crawl space	
95B-RM-0707	Green glue adhesive associated with insulation	First floor, crawl space	
96A-RM-0707	Gray mudded pipe fittings	First floor, crawl space	
96B-RM-0707	Gray mudded pipe fittings	First floor, crawl space	
96C-RM-0707	Gray mudded pipe fittings	First floor, crawl space	
97A-RM-0707	Dark gray adhesive on blower	First floor, mechanical room	
97B-RM-0707	Dark gray adhesive on blower	First floor, mechanical room	
98A-RM-0707	Black window glazing	First floor, kitchen to cafeteria doors	
98B-RM-0707	Black window glazing	First floor, kitchen to cafeteria doors	
99A-RM-0707	12" by 12" dark gray with black streaks	First floor, ramp to second floor	
99B-RM-0707	12" by 12" dark gray with black streaks	First floor, ramp to second floor	
★ 100A-RM-0707	Dark tan adhesive associated with sample 99	First floor, ramp to second floor	
100B-RM-0707	Dark tan adhesive associated with sample 99	First floor, ramp to second floor	
101A-RM-0707	4" light gray baseboard	First floor, hallway	
101B-RM-0707	4" light gray baseboard	First floor, hallway	
102A-RM-0707	Tan adhesive associated with sample 101	First floor, hallway	
102B-RM-0707	Tan adhesive associated with sample 101	First floor, hallway	
103A-RM-0707	12" by 12" light blue with dark blue speck	Second floor, 215	
103B-RM-0707	12" by 12" light blue with dark blue speck	Second floor, 215	
★ 104A-RM-0707	Tan adhesive associated with 103	Second floor, 215	

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104B-RM-0707	Tan adhesive associated with 103	Second floor, 215	
* 105A-RM-0707	12" by 12" off-white with blue streaks	Second floor, 215	
105B-RM-0707	12" by 12" off-white with blue streaks	Second floor, 215	

Analysis Method: PLM TEM Other _____

Turnaround Time: 5 days

Please call Fuss & O'Neill at (617) 282-4675 if analyses will not be completed for requested turnaround time listed above.

Email Results to: rmallett@fando.com Do Not Mail Hard Copy Report FAX Results to: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. Do not point count. If NOB group samples are ALL negative by PLM, analyze the sample denoted with a star (★) by TEM NOB on a 5 day turnaround time. Analyze a MAXIMUM of 20 samples by TEM in noted order.

Samples Collected by: Robert Mallet Date: 7/07/2020

Samples Sent by: Robert Mallet Date: 7/17/20 Time: Afternoon

Shipped To: EMSL Other _____

Method of Shipment: Fed Ex Lab Drop Off Other _____

REC'D 48 8:30
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EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com/bostonlab@emsl.com>

EMSL Order: 132005654

Customer ID: ENVI54

Customer PO: 20160717.A30

Project ID:

Attention: Robert Mallett
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469

Fax:

Received Date: 08/14/2020 2:20 PM

Analysis Date: 08/21/2020

Collected Date: 08/11/2020

Project: 20160717.A30/TMVL; 197 Vassal Lane; Cambridge, MA

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01A-RCM-0811 <small>132005654-0001</small>	C Section Roof - Black Vapor Barrier on Deck	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B-RCM-0811 <small>132005654-0002</small>	B Section Roof - Black Vapor Barrier on Deck	Black Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (Other)	None Detected
02A-RCM-0811 <small>132005654-0003</small>	C Section Roof - Black Vapor Barrier at Perimeter Blocking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B-RCM-0811 <small>132005654-0004</small>	B Section Roof - Black Vapor Barrier at Perimeter Blocking	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
02C-RCM-0811 <small>132005654-0005</small>	A Section Roof - Black Vapor Barrier at Perimeter Blocking	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
03A-RCM-0811 <small>132005654-0006</small>	C Section Roof - Black Mastic Beneath Wood Blocking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B-RCM-0811 <small>132005654-0007</small>	B Section Roof - Black Mastic Beneath Wood Blocking	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03C-RCM-0811 <small>132005654-0008</small>	A Section Roof - Black Mastic Beneath Wood Blocking	Black Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
04A-RCM-0811 <small>132005654-0009</small>	C Section Roof - Gray Caulking at Roof Flashing	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B-RCM-0811 <small>132005654-0010</small>	B Section Roof - Gray Caulking at Roof Flashing	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A-RCM-0811 <small>132005654-0011</small>	C Section Roof - Black Lap Seam Sealant	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05B-RCM-0811 <small>132005654-0012</small>	B Section Roof - Black Lap Seam Sealant	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06A-RCM-0811 <small>132005654-0013</small>	B Section Roof - Gray Caulking at Flashing	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06B-RCM-0811 <small>132005654-0014</small>	B Section Roof - Gray Caulking at Flashing	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A-RCM-0811 <small>132005654-0015</small>	B Section Roof - Gray Caulking Assoc. w/ Methane System	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07B-RCM-0811 <small>132005654-0016</small>	A Section Roof - Gray Caulking Assoc. w/ Methane System	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 08/21/2020 13:02:06



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 132005654
Customer ID: ENVI54
Customer PO: 20160717.A30
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
08A-RCM-0811 <small>132005654-0017</small>	A Section Roof - Black Mop on Deck	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08B-RCM-0811 <small>132005654-0018</small>	A Section Roof - Black Mop on Deck	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09-RCM-0811 <small>132005654-0019</small>	2nd Floor Custodian Closet in Chase - Gray Mudded Fitting Insulation	Gray Fibrous Homogeneous	80% Min. Wool	15% Non-fibrous (Other)	5% Chrysotile

Analyst(s)

Elizabeth Stutts (19)

Steve Grise, Laboratory Manager
or Other Approved Signatory

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

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

Initial report from: 08/21/2020 13:02:06



FUSS & O'NEILL

132005654

EMSL Customer No. ENVI54

www.fando.com

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Phone (617) 282-4675 Fax (617) 282-8253

Asbestos Bulk Sample Chain-of-Custody Form

Sheet ___ of ___

Project Name: TMVL Demolition Project No.: 20160717.A30 Task: C1

Building Name/Number: TMVL Project Manager: Mallett

Site Address: 197 Vassal Lane, Cambridge, MA Total # of Samples: 19

Sample ID (#-Initials-Date)	Material Type (Size, Color, Description, Material)	Sample Location	Comments/ Quantities
01A-RCM-0811	Black Vapor Barrier on Deck	C Section Roof	
01B-RCM-0811	Black Vapor Barrier on Deck	B Section Roof	
02A-RCM-0811	Black Vapor Barrier at Perimeter Blocking	C Section Roof	
02B-RCM-0811	Black Vapor Barrier at Perimeter Blocking	B Section Roof	
02C-RCM-0811	Black Vapor Barrier at Perimeter Blocking	A Section Roof	
03A-RCM-0811	Black Mastic Beneath Wood Blocking	C Section Roof	
03B-RCM-0811	Black Mastic Beneath Wood Blocking	B Section Roof	
03C-RCM-0811	Black Mastic Beneath Wood Blocking	A Section Roof	
04A-RCM-0811	Gray Caulking at Roof Flashing	C Section Roof	
04B-RCM-0811	Gray Caulking at Roof Flashing	B Section Roof	
05A-RCM-0811	Black Lap Seam Sealant	C Section Roof	
05B-RCM-0811	Black Lap Seam Sealant	B Section Roof	
06A-RCM-0811	Gray Caulking at Flashing	B Section Roof	
06B-RCM-0811	Gray Caulking at Flashing	B Section Roof	
07A-RCM-0811	Gray Caulking Associated with Methane System	B Section Roof	
07B-RCM-0811	Gray Caulking Associated with Methane System	A Section Roof	
08A-RCM-0811	Black Mop on Deck	A Section Roof	
08B-RCM-0811	Black Mop on Deck	A Section Roof	
09-RCM-0811	Gray Mudded Fitting Insulation	2nd Floor Custodian Closet in Chase	

Analysis Method: PLM TEM Other _____ Turnaround Time: 1-week

Please call Fuss & O'Neill at (617) 282-4675 if analyses will not be completed for requested turnaround time listed above.

Email Results to: rmallett@fando.com Do Not Mail Hard Copy Report FAX Results to: 888-838-1160.

Special Instructions: **Do not stop positive. If multiple layers are observed, analyze layers separately.**

Do not point count. If NOB group samples are ALL negative by PLM, analyze the sample denoted with a star (★) by TEM NOB on a _____ turnaround time. Analyze a MAXIMUM of _____ samples by TEM in noted order.

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200 Wainin



FUSS & O'NEILL

132005654

EMSL Customer No. ENVI54

www.fando.com

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Phone (617) 282-4675 Fax (617) 282-8253

Samples Collected by:  Date: 8/11/2020

Samples Sent by: MC Date: 8/14/2020 Time: AM

Shipped To: EMSL Other _____

Method of Shipment: Fed Ex Lab Drop Off Other _____


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AUG 14 2020



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Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 132104627

Customer ID: ENVI54

Customer PO: 20160717.A30

Project ID:

Attention: Robert Mallett
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469

Fax:

Received Date: 07/06/2021 9:00 AM

Analysis Date: 07/07/2021 - 07/08/2021

Collected Date: 06/30/2021

Project: 20160717.A30 Task C1 - TMVL; 197 Vassal Lane; Cambridge, MA

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01A-RCM-20210630 <small>132104627-0001</small>	216 - Black Corkboard Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01B-RCM-20210630 <small>132104627-0002</small>	216 - Black Corkboard Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
01C-RCM-20210630 <small>132104627-0003</small>	210 - Black Corkboard Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02A-RCM-20210630 <small>132104627-0004</small>	Ground Floor Staff Bathrooms - White Thinset Assoc. w/ Ceramic Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02B-RCM-20210630 <small>132104627-0005</small>	Ground Floor Staff Bathrooms - White Thinset Assoc. w/ Ceramic Floor Tile	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03A-RCM-20210630 <small>132104627-0006</small>	Ground Floor Staff Bathrooms - Black Waterproofing beneath Ceramic Floor Tile	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03B-RCM-20210630 <small>132104627-0007</small>	Ground Floor Staff Bathrooms - Black Waterproofing beneath Ceramic Floor Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04A-RCM-20210630 <small>132104627-0008</small>	Kitchen - Black Quarry Tile Grout	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
04B-RCM-20210630 <small>132104627-0009</small>	Kitchen - Black Quarry Tile Grout	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05A-RCM-20210630 <small>132104627-0010</small>	Kitchen - White Thinset Assoc. w/ Quarry Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
05B-RCM-20210630 <small>132104627-0011</small>	Kitchen - White Thinset Assoc. w/ Quarry Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06A-RCM-20210630 <small>132104627-0012</small>	Kitchen - Gray Mudset Assoc. w/ Quarry Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
06B-RCM-20210630 <small>132104627-0013</small>	Kitchen - Gray Mudset Assoc. w/ Quarry Tile	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
07A-RCM-20210630 <small>132104627-0014</small>	206 - Tan Construction Adhesive Assoc. w/ Chalkboard	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 07/09/2021 08:14:39



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

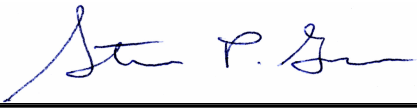
<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 132104627
Customer ID: ENVI54
Customer PO: 20160717.A30
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
07B-RCM-20210630 <small>132104627-0015</small>	206 - Tan Construction Adhesive Assoc. w/ Chalkboard	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08A-RCM-20210630 <small>132104627-0016</small>	210 - Brown Chalkboard Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
08B-RCM-20210630 <small>132104627-0017</small>	210 - Brown Chalkboard Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09A-RCM-20210630 <small>132104627-0018</small>	210 - Red Adhesive Assoc. w/ Chalkboard Layers	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
09B-RCM-20210630 <small>132104627-0019</small>	210 - Red Adhesive Assoc. w/ Chalkboard Layers	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10A-RCM-20210630 <small>132104627-0020</small>	Play Areas - Black Sealant on Pavers	Black Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10B-RCM-20210630 <small>132104627-0021</small>	Play Areas - Black Sealant on Pavers	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11A-RCM-20210630 <small>132104627-0022</small>	Play Areas - Black Sealant on Playground Perimeter	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11B-RCM-20210630 <small>132104627-0023</small>	Play Areas - Black Sealant on Playground Perimeter	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11C-RCM-20210630 <small>132104627-0024</small>	Play Areas - Black Sealant on Playground Perimeter	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) _____
 Elizabeth Stutts (24)


 Steve Grise, Laboratory Manager
 or Other Approved Signatory

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

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

Initial report from: 07/09/2021 08:14:39

Appendix D

Lead Laboratory TCLP Report & Chain-of-Custody Form



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	202106266
CustomerID:	ENVI54
CustomerPO:	20160717.A30
ProjectID:	

Attn: **Robert Mallett**
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Phone: (860) 646-2469
 Fax:
 Received: 08/13/21 10:20 AM
 Collected: 8/12/2021

Project: 20160717.A30 / Tobin Vassal / 197 Vassal Lane, Cambridge, MA

Test Report: Toxicity Characteristic Leachate Procedure (1311/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
01-MS-0812	202106266-0001	8/12/2021	8/18/2021	<0.40 mg/L
Site: Tobin Vassal				

Phillip Worby, Lead Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367

Initial report from 08/19/2021 09:11:37



FUSS & O'NEILL

202106266

www.fando.com

108 Myrtle Street, Suite 502, Quincy, MA 02171

(617) 282-4675

TCLP Chain of Custody

Sheet 1 of 1

Project Name: TOBIN VASSAL Project No.: 2060717-A30

Building Name/Number: _____ Project Manager: Robert Mallett

Site Address: 197 VASSAL LANE, CAMBRIDGE, MA Total # of Samples: 1

Sample ID Number (#-Initials-Date-TCLP)	Sample Location/Building	Material
01-MS-0812	TOBIN VASSAL	Building materials

Analysis Method: TCLP Lead HG Other _____ Turnaround Time: 48 hrs

Based on the turnaround time indicated above, analyses are due to Fuss & O'Neill on or before this date: _____. Please call Fuss & O'Neill if analyses will not be completed for requested t/a/t at (617) 282-4675.

Email Results to: rmallett@fando.com Do Not Mail Hard Copy Report FAX Results to: 888-838-1160.

Special Instructions: Client notified 72 hr JAT - per all previous projects, PLNA @ 8/13/21

Samples Collected by: Madelyn Sampson Date: 8/12/21

Samples Sent by: Maddyn Sampson Date: 8/12/21 Time: 1515

Shipped To: EMSL Other _____

Method of Shipment: Fed Ex Lab Drop Off Other _____

REC'D
EMSL BOSTON
AUG 12 2021

1530

Wainin

\\private\DFS\AdminData\Working Folder\Mass Field Forms\TCLP Chain of Custody.docx

Rec'd EFX 8/13/21 10:20A

Appendix E

PCB Laboratory Analytical Reports & Chain-of-Custody Forms

June 28, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: 197 Vassal Lane, Cambridge, MA
Client Job Number:
Project Number: 20160717.A30 Task C3
Laboratory Work Order Number: 21F1135

Enclosed are results of analyses for samples received by the laboratory on June 18, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 6/28/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30 Task C3

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21F1135

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

PROJECT LOCATION: 197 Vassal Lane, Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
01A-RCM20200708-PCB	21F1135-01	Caulk	grey joint caulking	SW-846 8082A	
01B-RCM20200708-PCB	21F1135-02	Caulk	grey joint caulking	SW-846 8082A	
01C-RCM20200708-PCB	21F1135-03	Caulk	grey joint caulking	SW-846 8082A	
02A-RCM20200708-PCB	21F1135-04	Caulk	grey door caulking	SW-846 8082A	
02B-RCM20200708-PCB	21F1135-05	Caulk	grey door caulking	SW-846 8082A	
02C-RCM20200708-PCB	21F1135-06	Caulk	grey door caulking	SW-846 8082A	
03A-RCM20200708-PCB	21F1135-07	Paint	tan paint at column	SW-846 8082A	
03B-RCM20200708-PCB	21F1135-08	Paint	tan paint at column	SW-846 8082A	
03C-RCM20200708-PCB	21F1135-09	Paint	tan paint at column	SW-846 8082A	
04A-RCM20200708-PCB	21F1135-10	Caulk	dark grey window caulking	SW-846 8082A	
04B-RCM20200708-PCB	21F1135-11	Caulk	dark grey window caulking	SW-846 8082A	
04C-RCM20200708-PCB	21F1135-12	Caulk	dark grey window caulking	SW-846 8082A	
05A-RCM20200708-PCB	21F1135-13	Caulk	black window glazing compound	SW-846 8082A	
06A-RCM20200708-PCB	21F1135-14	Caulk	grey exterior joint caulking	SW-846 8082A	
06B-RCM20200708-PCB	21F1135-15	Caulk	grey exterior joint caulking	SW-846 8082A	
06C-RCM20200708-PCB	21F1135-16	Caulk	grey exterior joint caulking	SW-846 8082A	
07A-RCM20200708-PCB	21F1135-17	Caulk	exterior window caulking	SW-846 8082A	
07B-RCM20200708-PCB	21F1135-18	Caulk	exterior window caulking	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:

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

Aroclor-1254

21F1135-12[04C-RCM20200708-PCB]

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.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

21F1135-03[01C-RCM20200708-PCB], 21F1135-11[04B-RCM20200708-PCB], 21F1135-12[04C-RCM20200708-PCB], 21F1135-17[07A-RCM20200708-PCB], 21F1135-18[07B-RCM20200708-PCB]

Decachlorobiphenyl [2C]

21F1135-03[01C-RCM20200708-PCB], 21F1135-11[04B-RCM20200708-PCB], 21F1135-12[04C-RCM20200708-PCB], 21F1135-17[07A-RCM20200708-PCB], 21F1135-18[07B-RCM20200708-PCB]

Tetrachloro-m-xylene

21F1135-03[01C-RCM20200708-PCB], 21F1135-11[04B-RCM20200708-PCB], 21F1135-12[04C-RCM20200708-PCB], 21F1135-17[07A-RCM20200708-PCB], 21F1135-18[07B-RCM20200708-PCB]

Tetrachloro-m-xylene [2C]

21F1135-03[01C-RCM20200708-PCB], 21F1135-11[04B-RCM20200708-PCB], 21F1135-12[04C-RCM20200708-PCB], 21F1135-17[07A-RCM20200708-PCB], 21F1135-18[07B-RCM20200708-PCB]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey joint caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 01A-RCM20200708PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1221 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1232 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1242 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1248 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1254 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1260 [2]	5.0	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1262 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Aroclor-1268 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		112	30-150					6/26/21 0:26	
Decachlorobiphenyl [2]		107	30-150					6/26/21 0:26	
Tetrachloro-m-xylene [1]		84.4	30-150					6/26/21 0:26	
Tetrachloro-m-xylene [2]		89.3	30-150					6/26/21 0:26	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey joint caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 01B-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1221 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1232 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1242 [1]	4.6	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1248 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1254 [2]	9.2	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1260 [2]	6.9	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1262 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Aroclor-1268 [1]	ND	0.73	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 0:44	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.0	30-150					6/26/21 0:44	
Decachlorobiphenyl [2]		84.4	30-150					6/26/21 0:44	
Tetrachloro-m-xylene [1]		71.0	30-150					6/26/21 0:44	
Tetrachloro-m-xylene [2]		76.1	30-150					6/26/21 0:44	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey joint caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 01C-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-03

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1221 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1232 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1242 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1248 [2]	22	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1254 [2]	58	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1260 [1]	15	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1262 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Aroclor-1268 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 1:02	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			6/26/21 1:02	
Decachlorobiphenyl [2]	*	30-150			S-01			6/26/21 1:02	
Tetrachloro-m-xylene [1]	*	30-150			S-01			6/26/21 1:02	
Tetrachloro-m-xylene [2]	*	30-150			S-01			6/26/21 1:02	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey door caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 02A-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-04

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1221 [1]	ND	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1232 [1]	ND	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1242 [1]	ND	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1248 [1]	ND	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1254 [2]	16	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1260 [2]	11	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1262 [1]	ND	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Aroclor-1268 [1]	ND	3.7	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 1:19	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.1	30-150					6/26/21 1:19	
Decachlorobiphenyl [2]		82.4	30-150					6/26/21 1:19	
Tetrachloro-m-xylene [1]		67.7	30-150					6/26/21 1:19	
Tetrachloro-m-xylene [2]		72.2	30-150					6/26/21 1:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey door caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 02B-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-05

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1221 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1232 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1242 [2]	1.4	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1248 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1254 [2]	4.2	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1260 [2]	4.6	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1262 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Aroclor-1268 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:37	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.8	30-150					6/26/21 1:37	
Decachlorobiphenyl [2]		85.9	30-150					6/26/21 1:37	
Tetrachloro-m-xylene [1]		72.9	30-150					6/26/21 1:37	
Tetrachloro-m-xylene [2]		76.8	30-150					6/26/21 1:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey door caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 02C-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-06

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1242 [2]	7.1	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1248 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1254 [2]	6.4	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1260 [2]	5.9	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 1:55	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.6	30-150					6/26/21 1:55	
Decachlorobiphenyl [2]		84.2	30-150					6/26/21 1:55	
Tetrachloro-m-xylene [1]		64.4	30-150					6/26/21 1:55	
Tetrachloro-m-xylene [2]		70.1	30-150					6/26/21 1:55	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: tan paint at column

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 03A-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-07

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1221 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1232 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1242 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1248 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1254 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1260 [1]	22	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1262 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Aroclor-1268 [1]	ND	4.6	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:25	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					6/24/21 20:25	
Decachlorobiphenyl [2]		90.2	30-150					6/24/21 20:25	
Tetrachloro-m-xylene [1]		85.1	30-150					6/24/21 20:25	
Tetrachloro-m-xylene [2]		83.0	30-150					6/24/21 20:25	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: tan paint at column

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 03B-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-08

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1221 [1]	ND	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1232 [1]	ND	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1242 [1]	ND	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1248 [1]	ND	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1254 [1]	13	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1260 [1]	12	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1262 [1]	ND	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Aroclor-1268 [1]	ND	4.7	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 20:43	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.3	30-150					6/24/21 20:43	
Decachlorobiphenyl [2]		90.0	30-150					6/24/21 20:43	
Tetrachloro-m-xylene [1]		82.9	30-150					6/24/21 20:43	
Tetrachloro-m-xylene [2]		80.9	30-150					6/24/21 20:43	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: tan paint at column

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 03C-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-09

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1221 [1]	ND	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1232 [1]	ND	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1242 [1]	ND	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1248 [1]	ND	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1254 [1]	21	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1260 [1]	17	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1262 [1]	ND	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Aroclor-1268 [1]	ND	4.9	mg/Kg	10		SW-846 8082A	6/21/21	6/24/21 21:00	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					6/24/21 21:00	
Decachlorobiphenyl [2]		91.2	30-150					6/24/21 21:00	
Tetrachloro-m-xylene [1]		77.2	30-150					6/24/21 21:00	
Tetrachloro-m-xylene [2]		83.5	30-150					6/24/21 21:00	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: dark grey window caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 04A-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-10

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1221 [1]	ND	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1232 [1]	ND	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1242 [1]	2.6	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1248 [1]	ND	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1254 [1]	5.4	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1260 [1]	2.8	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1262 [1]	ND	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Aroclor-1268 [1]	ND	0.77	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 3:54	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.6	30-150					6/26/21 3:54	
Decachlorobiphenyl [2]		84.9	30-150					6/26/21 3:54	
Tetrachloro-m-xylene [1]		84.7	30-150					6/26/21 3:54	
Tetrachloro-m-xylene [2]		88.5	30-150					6/26/21 3:54	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: dark grey window caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 04B-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-11

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1221 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1232 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1242 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1248 [2]	45	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1254 [2]	42	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1260 [2]	14	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1262 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Aroclor-1268 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:11	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			6/26/21 4:11	
Decachlorobiphenyl [2]	*	30-150			S-01			6/26/21 4:11	
Tetrachloro-m-xylene [1]	*	30-150			S-01			6/26/21 4:11	
Tetrachloro-m-xylene [2]	*	30-150			S-01			6/26/21 4:11	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: dark grey window caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 04C-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-12

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1221 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1232 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1242 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1248 [2]	22	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1254 [1]	16	9.4	mg/Kg	50	P-02	SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1260 [2]	14	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1262 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Aroclor-1268 [1]	ND	9.4	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 4:29	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			6/26/21 4:29	
Decachlorobiphenyl [2]	*	30-150			S-01			6/26/21 4:29	
Tetrachloro-m-xylene [1]	*	30-150			S-01			6/26/21 4:29	
Tetrachloro-m-xylene [2]	*	30-150			S-01			6/26/21 4:29	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: black window glazing compound

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 05A-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-13

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1221 [1]	ND	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1232 [1]	ND	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1242 [2]	5.7	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1248 [1]	ND	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1254 [2]	4.1	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1260 [2]	4.6	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1262 [1]	ND	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Aroclor-1268 [1]	ND	3.5	mg/Kg	20		SW-846 8082A	6/21/21	6/26/21 4:47	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	108	30-150						6/26/21 4:47	
Decachlorobiphenyl [2]	108	30-150						6/26/21 4:47	
Tetrachloro-m-xylene [1]	109	30-150						6/26/21 4:47	
Tetrachloro-m-xylene [2]	112	30-150						6/26/21 4:47	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey exterior joint caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 06A-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-14

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1248 [2]	2.8	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1254 [2]	5.8	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1260 [2]	8.7	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:04	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.3	30-150					6/26/21 5:04	
Decachlorobiphenyl [2]		99.7	30-150					6/26/21 5:04	
Tetrachloro-m-xylene [1]		81.7	30-150					6/26/21 5:04	
Tetrachloro-m-xylene [2]		86.6	30-150					6/26/21 5:04	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey exterior joint caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 06B-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-15

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1248 [2]	1.2	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1254 [2]	3.2	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1260 [1]	6.9	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:22	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.0	30-150					6/26/21 5:22	
Decachlorobiphenyl [2]		84.9	30-150					6/26/21 5:22	
Tetrachloro-m-xylene [1]		72.0	30-150					6/26/21 5:22	
Tetrachloro-m-xylene [2]		75.9	30-150					6/26/21 5:22	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: grey exterior joint caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 06C-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-16

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1221 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1232 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1242 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1248 [2]	ND	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1254 [2]	1.8	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1260 [2]	5.9	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1262 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Aroclor-1268 [2]	2.6	0.78	mg/Kg	4		SW-846 8082A	6/21/21	6/26/21 5:40	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.7	30-150					6/26/21 5:40	
Decachlorobiphenyl [2]		89.0	30-150					6/26/21 5:40	
Tetrachloro-m-xylene [1]		75.5	30-150					6/26/21 5:40	
Tetrachloro-m-xylene [2]		80.2	30-150					6/26/21 5:40	

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Project Location: 197 Vassal Lane, Cambridge, MA Sample Description: exterior window caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 07A-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-17

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1221 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1232 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1242 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1248 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1254 [1]	24	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1260 [1]	22	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1262 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Aroclor-1268 [1]	ND	9.7	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 5:57	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			6/26/21 5:57	
Decachlorobiphenyl [2]		*	30-150		S-01			6/26/21 5:57	
Tetrachloro-m-xylene [1]		*	30-150		S-01			6/26/21 5:57	
Tetrachloro-m-xylene [2]		*	30-150		S-01			6/26/21 5:57	

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Project Location: 197 Vassal Lane, Cambridge, MA

Sample Description: exterior window caulking

Work Order: 21F1135

Date Received: 6/18/2021

Field Sample #: 07B-RCM20200708-PCB

Sampled: 6/18/2021 00:00

Sample ID: 21F1135-18

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1221 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1232 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1242 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1248 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1254 [2]	26	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1260 [2]	70	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1262 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Aroclor-1268 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	6/21/21	6/26/21 6:15	JMB
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			6/26/21 6:15	
Decachlorobiphenyl [2]	*	30-150			S-01			6/26/21 6:15	
Tetrachloro-m-xylene [1]	*	30-150			S-01			6/26/21 6:15	
Tetrachloro-m-xylene [2]	*	30-150			S-01			6/26/21 6:15	

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1135-01 [01A-RCM20200708-PCB]	B284401	0.503	10.0	06/21/21
21F1135-02 [01B-RCM20200708-PCB]	B284401	0.552	10.0	06/21/21
21F1135-03 [01C-RCM20200708-PCB]	B284401	0.526	10.0	06/21/21
21F1135-04 [02A-RCM20200708-PCB]	B284401	0.540	10.0	06/21/21
21F1135-05 [02B-RCM20200708-PCB]	B284401	0.537	10.0	06/21/21
21F1135-06 [02C-RCM20200708-PCB]	B284401	0.505	10.0	06/21/21
21F1135-10 [04A-RCM20200708-PCB]	B284401	0.516	10.0	06/21/21
21F1135-11 [04B-RCM20200708-PCB]	B284401	0.513	10.0	06/21/21
21F1135-12 [04C-RCM20200708-PCB]	B284401	0.532	10.0	06/21/21
21F1135-13 [05A-RCM20200708-PCB]	B284401	0.564	10.0	06/21/21
21F1135-14 [06A-RCM20200708-PCB]	B284401	0.507	10.0	06/21/21
21F1135-15 [06B-RCM20200708-PCB]	B284401	0.507	10.0	06/21/21
21F1135-16 [06C-RCM20200708-PCB]	B284401	0.513	10.0	06/21/21
21F1135-17 [07A-RCM20200708-PCB]	B284401	0.517	10.0	06/21/21
21F1135-18 [07B-RCM20200708-PCB]	B284401	0.511	10.0	06/21/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21F1135-07 [03A-RCM20200708-PCB]	B284400	0.216	10.0	06/21/21
21F1135-08 [03B-RCM20200708-PCB]	B284400	0.212	10.0	06/21/21
21F1135-09 [03C-RCM20200708-PCB]	B284400	0.204	10.0	06/21/21

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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
Batch B284400 - SW-846 3540C										
Blank (B284400-BLK1)										
Prepared: 06/21/21 Analyzed: 06/24/21										
Aroclor-1016	ND	0.48	mg/Kg							
Aroclor-1016 [2C]	ND	0.48	mg/Kg							
Aroclor-1221	ND	0.48	mg/Kg							
Aroclor-1221 [2C]	ND	0.48	mg/Kg							
Aroclor-1232	ND	0.48	mg/Kg							
Aroclor-1232 [2C]	ND	0.48	mg/Kg							
Aroclor-1242	ND	0.48	mg/Kg							
Aroclor-1242 [2C]	ND	0.48	mg/Kg							
Aroclor-1248	ND	0.48	mg/Kg							
Aroclor-1248 [2C]	ND	0.48	mg/Kg							
Aroclor-1254	ND	0.48	mg/Kg							
Aroclor-1254 [2C]	ND	0.48	mg/Kg							
Aroclor-1260	ND	0.48	mg/Kg							
Aroclor-1260 [2C]	ND	0.48	mg/Kg							
Aroclor-1262	ND	0.48	mg/Kg							
Aroclor-1262 [2C]	ND	0.48	mg/Kg							
Aroclor-1268	ND	0.48	mg/Kg							
Aroclor-1268 [2C]	ND	0.48	mg/Kg							
Surrogate: Decachlorobiphenyl	9.62		mg/Kg	9.69		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.65		mg/Kg	9.69		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	7.90		mg/Kg	9.69		81.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	7.52		mg/Kg	9.69		77.7	30-150			
LCS (B284400-BS1)										
Prepared: 06/21/21 Analyzed: 06/24/21										
Aroclor-1016	1.7	0.48	mg/Kg	2.39		69.5	40-140			
Aroclor-1016 [2C]	1.5	0.48	mg/Kg	2.39		62.8	40-140			
Aroclor-1260	1.6	0.48	mg/Kg	2.39		68.5	40-140			
Aroclor-1260 [2C]	1.6	0.48	mg/Kg	2.39		65.8	40-140			
Surrogate: Decachlorobiphenyl	7.42		mg/Kg	9.57		77.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	6.68		mg/Kg	9.57		69.8	30-150			
Surrogate: Tetrachloro-m-xylene	5.71		mg/Kg	9.57		59.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	5.59		mg/Kg	9.57		58.4	30-150			
LCS Dup (B284400-BSD1)										
Prepared: 06/21/21 Analyzed: 06/25/21										
Aroclor-1016	1.2	0.40	mg/Kg	2.02		61.0	40-140	29.6	30	
Aroclor-1016 [2C]	1.2	0.40	mg/Kg	2.02		60.2	40-140	20.9	30	
Aroclor-1260	1.3	0.40	mg/Kg	2.02		62.1	40-140	26.5	30	
Aroclor-1260 [2C]	1.2	0.40	mg/Kg	2.02		59.9	40-140	26.0	30	
Surrogate: Decachlorobiphenyl	5.10		mg/Kg	8.09		63.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	4.63		mg/Kg	8.09		57.2	30-150			
Surrogate: Tetrachloro-m-xylene	3.40		mg/Kg	8.09		42.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.91		mg/Kg	8.09		48.3	30-150			

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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
Batch B284401 - SW-846 3540C										
Blank (B284401-BLK1)										
Prepared: 06/21/21 Analyzed: 06/25/21										
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	3.31		mg/Kg	4.00		82.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.43		mg/Kg	4.00		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	3.43		mg/Kg	4.00		85.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.61		mg/Kg	4.00		90.2	30-150			
LCS (B284401-BS1)										
Prepared: 06/21/21 Analyzed: 06/25/21										
Aroclor-1016	3.4	0.20	mg/Kg	4.00		85.1	40-140			
Aroclor-1016 [2C]	3.7	0.20	mg/Kg	4.00		93.3	40-140			
Aroclor-1260	3.2	0.20	mg/Kg	4.00		79.5	40-140			
Aroclor-1260 [2C]	3.2	0.20	mg/Kg	4.00		81.0	40-140			
Surrogate: Decachlorobiphenyl	3.63		mg/Kg	4.00		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.77		mg/Kg	4.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	3.68		mg/Kg	4.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.85		mg/Kg	4.00		96.3	30-150			
LCS Dup (B284401-BSD1)										
Prepared: 06/21/21 Analyzed: 06/25/21										
Aroclor-1016	3.2	0.20	mg/Kg	4.00		79.6	40-140	6.64	30	
Aroclor-1016 [2C]	3.4	0.20	mg/Kg	4.00		85.0	40-140	9.23	30	
Aroclor-1260	3.0	0.20	mg/Kg	4.00		75.3	40-140	5.39	30	
Aroclor-1260 [2C]	3.0	0.20	mg/Kg	4.00		75.7	40-140	6.83	30	
Surrogate: Decachlorobiphenyl	3.42		mg/Kg	4.00		85.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.54		mg/Kg	4.00		88.6	30-150			
Surrogate: Tetrachloro-m-xylene	3.35		mg/Kg	4.00		83.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.50		mg/Kg	4.00		87.4	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

01A-RCM20200708PCB

SW-846 8082A

 Lab Sample ID: 21F1135-01 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	4.9	
	2	0.000	0.000	0.000	5.0	2.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

01B-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-02 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	4.6	
	2	0.000	0.000	0.000	4.5	2.2
Aroclor-1254	1	0.000	0.000	0.000	7.3	
	2	0.000	0.000	0.000	9.2	23.0
Aroclor-1260	1	0.000	0.000	0.000	6.7	
	2	0.000	0.000	0.000	6.9	2.9



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

01C-RCM20200708-PCB

SW-846 8082A

Lab Sample ID: 21F1135-03 Date(s) Analyzed: 06/26/2021 06/26/2021
 Instrument ID (1): ECD4 Instrument ID (2): ECD4
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	19	
	2	0.000	0.000	0.000	22	14.6
Aroclor-1254	1	0.000	0.000	0.000	50	
	2	0.000	0.000	0.000	58	14.8
Aroclor-1260	1	0.000	0.000	0.000	15	
	2	0.000	0.000	0.000	14	6.9

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

02A-RCM20200708-PCB

SW-846 8082A

Lab Sample ID: 21F1135-04 Date(s) Analyzed: 06/26/2021 06/26/2021
 Instrument ID (1): ECD4 Instrument ID (2): ECD4
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	14	
	2	0.000	0.000	0.000	16	13.3
Aroclor-1260	1	0.000	0.000	0.000	11	
	2	0.000	0.000	0.000	11	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

02B-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-05 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	1.2	
	2	0.000	0.000	0.000	1.4	15.4
Aroclor-1254	1	0.000	0.000	0.000	3.4	
	2	0.000	0.000	0.000	4.2	21.1
Aroclor-1260	1	0.000	0.000	0.000	4.4	
	2	0.000	0.000	0.000	4.6	4.4

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

02C-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-06 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	6.9	
	2	0.000	0.000	0.000	7.1	2.9
Aroclor-1254	1	0.000	0.000	0.000	5.1	
	2	0.000	0.000	0.000	6.4	22.6
Aroclor-1260	1	0.000	0.000	0.000	5.7	
	2	0.000	0.000	0.000	5.9	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

03A-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-07 Date(s) Analyzed: 06/24/2021 06/24/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	22	
	2	0.000	0.000	0.000	21	4.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

03B-RCM20200708-PCB
SW-846 8082A

 Lab Sample ID: 21F1135-08 Date(s) Analyzed: 06/24/2021 06/24/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	13	
	2	0.000	0.000	0.000	11	16.7
Aroclor-1260	1	0.000	0.000	0.000	12	
	2	0.000	0.000	0.000	12	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

03C-RCM20200708-PCB
SW-846 8082A

 Lab Sample ID: 21F1135-09 Date(s) Analyzed: 06/24/2021 06/24/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	21	
	2	0.000	0.000	0.000	15	33.3
Aroclor-1260	1	0.000	0.000	0.000	17	
	2	0.000	0.000	0.000	16	6.1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

04A-RCM20200708-PCB
SW-846 8082A

 Lab Sample ID: 21F1135-10 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	2.6	
	2	0.000	0.000	0.000	2.9	10.9
Aroclor-1254	1	0.000	0.000	0.000	5.4	
	2	0.000	0.000	0.000	7.7	33.3
Aroclor-1260	1	0.000	0.000	0.000	2.8	
	2	0.000	0.000	0.000	2.8	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

04B-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-11 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	41	
	2	0.000	0.000	0.000	45	6.9
Aroclor-1254	1	0.000	0.000	0.000	32	
	2	0.000	0.000	0.000	42	27.0
Aroclor-1260	1	0.000	0.000	0.000	13	
	2	0.000	0.000	0.000	14	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

04C-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-12 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	20	
	2	0.000	0.000	0.000	22	9.5
Aroclor-1254	1	0.000	0.000	0.000	16	
	2	0.000	0.000	0.000	26	47.6
Aroclor-1260	1	0.000	0.000	0.000	12	
	2	0.000	0.000	0.000	14	15.4



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

05A-RCM20200708-PCB

SW-846 8082A

Lab Sample ID: 21F1135-13 Date(s) Analyzed: 06/26/2021 06/26/2021
 Instrument ID (1): ECD4 Instrument ID (2): ECD4
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	5.0	
	2	0.000	0.000	0.000	5.7	13.1
Aroclor-1260	1	0.000	0.000	0.000	4.4	
	2	0.000	0.000	0.000	4.6	4.4

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

06A-RCM20200708-PCB
SW-846 8082A

 Lab Sample ID: 21F1135-14 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	2.4	
	2	0.000	0.000	0.000	2.8	15.4
Aroclor-1254	1	0.000	0.000	0.000	4.9	
	2	0.000	0.000	0.000	5.8	16.8
Aroclor-1260	1	0.000	0.000	0.000	8.4	
	2	0.000	0.000	0.000	8.7	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

06B-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-15 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	1.2	29.7
Aroclor-1254	1	0.000	0.000	0.000	2.6	
	2	0.000	0.000	0.000	3.2	20.7
Aroclor-1260	1	0.000	0.000	0.000	6.9	
	2	0.000	0.000	0.000	6.9	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

06C-RCM20200708-PCB
SW-846 8082A

 Lab Sample ID: 21F1135-16 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	1.2	
	2	0.000	0.000	0.000	1.8	40.0
Aroclor-1260	1	0.000	0.000	0.000	5.7	
	2	0.000	0.000	0.000	5.9	3.5
Aroclor-1268	1	0.000	0.000	0.000	2.5	
	2	0.000	0.000	0.000	2.6	3.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

07A-RCM20200708-PCB

SW-846 8082A

 Lab Sample ID: 21F1135-17 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	24	
	2	0.000	0.000	0.000	30	22.2
Aroclor-1260	1	0.000	0.000	0.000	22	
	2	0.000	0.000	0.000	25	8.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

07B-RCM20200708-PCB
SW-846 8082A

 Lab Sample ID: 21F1135-18 Date(s) Analyzed: 06/26/2021 06/26/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	26	
	2	0.000	0.000	0.000	26	0.0
Aroclor-1260	1	0.000	0.000	0.000	68	
	2	0.000	0.000	0.000	70	2.9

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B284400-BS1 Date(s) Analyzed: 06/24/2021 06/24/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	1.7	
	2	0.000	0.000	0.000	1.5	12.5
Aroclor-1260	1	0.000	0.000	0.000	1.6	
	2	0.000	0.000	0.000	1.6	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8082A

Lab Sample ID: B284400-BSD1 Date(s) Analyzed: 06/25/2021 06/25/2021

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	1.2	
	2	0.000	0.000	0.000	1.2	0.0
Aroclor-1260	1	0.000	0.000	0.000	1.3	
	2	0.000	0.000	0.000	1.2	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B284401-BS1 Date(s) Analyzed: 06/25/2021 06/25/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	3.4	
	2	0.000	0.000	0.000	3.7	8.5
Aroclor-1260	1	0.000	0.000	0.000	3.2	
	2	0.000	0.000	0.000	3.2	0.0



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B284401-BSD1 Date(s) Analyzed: 06/25/2021 06/25/2021
 Instrument ID (1): ECD4 Instrument ID (2): ECD4
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	3.2	
	2	0.000	0.000	0.000	3.4	6.1
Aroclor-1260	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	3.0	0.0

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
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.

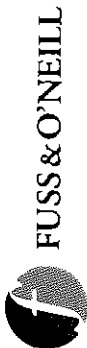
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



108 Myrtle Street, Suite 502, Quincy, MA 02171

21F1B5

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(617) 282-4675

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 2

Project Name: Tobin Montessori - Vassal Lane School Site Address: 197 Vassal Lane, Cambridge, MA Project Manager: Mallett

Project Number: 20160717.A30, Task C3 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Substrate(s)	Conc. Code (Below)
1 01A-RCM 2000708-RCB	GREY JOINT CAULKING	CAFE	CONC/CMU	U
2 01B-RCM 2000708-RCB	↓	216	↓	
3 01C-	↓	344	↓	
4 02A	GREY DOOR CAULKING	CAFE	METH/CMU	
5 02B	↓	216	↓	
6 02C	↓	343	↓	
7 03A	TAN PAINT AT COLUMN	CAFE	CONC	
8 03B	↓	2nd Floor Cor. A-wing b/w d11	↓	
9 03C	↓	3rd Floor Cor. C-wing o/s 344	↓	

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Con-Test

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to Mallett @fando.com.

Turnaround Time: JUNE 28th (48 Hours Latest)
~~START DATE~~
~~PI NOT RECEIVED~~
~~SEND BEFORE~~

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: RCM Date: 7/8/2020

Relinquished [By][To] | [Signature] | FMS | Date: 07/08/2020 Time: PM

Relinquished [By][To] | [Signature] | Joh | Date: 6/18/2021 Time: 2:30 pm

Relinquished [By][To] | [Signature] | 4.4 | Date: 6/18/21 Time: 1952

Q:\EnviroScience\Admin\FORMS\PCBs\July 2014 Revised COC Forms



FUSS & O'NEILL

108 Myrtle Street, Suite 502, Quincy, MA 02171

21FIBS

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Sheet 2 of 2

PCB Bulk Sample Chain-of-Custody Form

Project Name: Tobin Montessori - Vassal Lane School Site Address: 197 Vassal Lane, Cambridge, MA Project Manager: Mallett

Project Number: 20160717.A30, Task C3 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Substrate(s)	Conc. Code (Below)
10 04A-20M 060808-16	Drk Grey Window Caulking	CAFE	Metal/CMU/CONC	U
11 04B-11	↓	816	↓	
12 04C	↓	343		
13 05A	Black Window glazing compound	CAFE	Metal/Glass	
14 06A	Grey Exterior Joint Caulking	West	CMU/CONC	
15 06B	↓	South	CMU/CONC	
16 06C	↓	Northeast	CMU/CONC	
17 07A	Exterior Window Caulking	South	Metal/CONC	
18 07B	↓	Southwest	↓	

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Con-Test

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to Mallett @fando.com.

Turnaround Time: 3 WEEKS (Standard is 2-3 weeks)

DO NOT SEND RESULTS BEFORE SEND REPORT. DO NOT SEND BEFORE.

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: RCM Date: 7/8/2020

Relinquished [By][To] | Mallett | Ends | Date: 07/08/20 | Time: PM

Relinquished [By][To] | [Signature] | 1436 | Date: 6/18/2021 | Time: 2:30 pm

Relinquished [By][To] | [Signature] | 49 | Date: 6/18/21 | Time: 1952

Q:\EnviroScience\Admin\FORMS\PCBs\ 2014 Revised COC Forms

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 - Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Fuss + O'Neil
 Received By [Signature] Date 6/18/21 Time 1952

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.9
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? nl Were Samples Tampered with? nl
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? F Who was notified? _____
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? nl MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? _____ Acid nl Base nl

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

July 9, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: 197 Vassal Ln, Cambridge, MA
Client Job Number:
Project Number: 20160717.A30
Laboratory Work Order Number: 21G0094

Enclosed are results of analyses for samples received by the laboratory on July 2, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 7/9/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0094

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

PROJECT LOCATION: 197 Vassal Ln, Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
01A-SMD-063021-PCB	21G0094-01	Concrete		SW-846 8082A	
01B-SMD-063021-PCB	21G0094-02	Concrete		SW-846 8082A	
01C-SMD-063021-PCB	21G0094-03	Concrete		SW-846 8082A	
02A-SMD-063021-PCB	21G0094-04	Concrete		SW-846 8082A	
02B-SMD-063021-PCB	21G0094-05	Concrete		SW-846 8082A	
02C-SMD-063021-PCB	21G0094-06	Concrete		SW-846 8082A	
03A-SMD-063021-PCB	21G0094-07	Concrete		SW-846 8082A	
03B-SMD-063021-PCB	21G0094-08	Concrete		SW-846 8082A	
03C-SMD-063021-PCB	21G0094-09	Concrete		SW-846 8082A	
04A-SMD-063021-PCB	21G0094-10	Concrete		SW-846 8082A	
04B-SMD-063021-PCB	21G0094-11	Concrete		SW-846 8082A	
04C-SMD-063021-PCB	21G0094-12	Concrete		SW-846 8082A	
11A-SMD-063021-PCB	21G0094-13	Concrete		SW-846 8082A	
11B-SMD-063021-PCB	21G0094-14	Concrete		SW-846 8082A	
11C-SMD-063021-PCB	21G0094-15	Concrete		SW-846 8082A	
13A-SMD-063021-PCB	21G0094-16	Concrete		SW-846 8082A	
13B-SMD-063021-PCB	21G0094-17	Concrete		SW-846 8082A	
13C-SMD-063021-PCB	21G0094-18	Concrete		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.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 01A-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1248 [1]	0.12	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1254 [2]	0.11	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1260 [1]	0.18	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:05	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.5	30-150					7/9/21 9:05	
Decachlorobiphenyl [2]		80.4	30-150					7/9/21 9:05	
Tetrachloro-m-xylene [1]		77.5	30-150					7/9/21 9:05	
Tetrachloro-m-xylene [2]		77.5	30-150					7/9/21 9:05	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 01B-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1248 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:18	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.2	30-150					7/9/21 9:18	
Decachlorobiphenyl [2]		83.4	30-150					7/9/21 9:18	
Tetrachloro-m-xylene [1]		78.6	30-150					7/9/21 9:18	
Tetrachloro-m-xylene [2]		78.8	30-150					7/9/21 9:18	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 01C-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1248 [2]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:30	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.7	30-150					7/9/21 9:30	
Decachlorobiphenyl [2]		92.1	30-150					7/9/21 9:30	
Tetrachloro-m-xylene [1]		84.6	30-150					7/9/21 9:30	
Tetrachloro-m-xylene [2]		84.7	30-150					7/9/21 9:30	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 02A-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:43	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.8	30-150					7/9/21 9:43	
Decachlorobiphenyl [2]		86.3	30-150					7/9/21 9:43	
Tetrachloro-m-xylene [1]		83.8	30-150					7/9/21 9:43	
Tetrachloro-m-xylene [2]		83.7	30-150					7/9/21 9:43	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 02B-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1254 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1260 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 9:56	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.8	30-150					7/9/21 9:56	
Decachlorobiphenyl [2]		89.3	30-150					7/9/21 9:56	
Tetrachloro-m-xylene [1]		71.9	30-150					7/9/21 9:56	
Tetrachloro-m-xylene [2]		72.3	30-150					7/9/21 9:56	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 02C-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1254 [2]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:09	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.4	30-150					7/9/21 10:09	
Decachlorobiphenyl [2]		88.4	30-150					7/9/21 10:09	
Tetrachloro-m-xylene [1]		80.8	30-150					7/9/21 10:09	
Tetrachloro-m-xylene [2]		80.9	30-150					7/9/21 10:09	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 03A-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:22	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.2	30-150					7/9/21 10:22	
Decachlorobiphenyl [2]		82.1	30-150					7/9/21 10:22	
Tetrachloro-m-xylene [1]		75.2	30-150					7/9/21 10:22	
Tetrachloro-m-xylene [2]		75.5	30-150					7/9/21 10:22	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 03B-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 10:39	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.4	30-150					7/9/21 10:39	
Decachlorobiphenyl [2]		85.9	30-150					7/9/21 10:39	
Tetrachloro-m-xylene [1]		74.0	30-150					7/9/21 10:39	
Tetrachloro-m-xylene [2]		74.6	30-150					7/9/21 10:39	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 03C-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:40	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.7	30-150					7/9/21 12:40	
Decachlorobiphenyl [2]		87.0	30-150					7/9/21 12:40	
Tetrachloro-m-xylene [1]		77.0	30-150					7/9/21 12:40	
Tetrachloro-m-xylene [2]		77.1	30-150					7/9/21 12:40	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 04A-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1260 [1]	0.12	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 12:52	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.3	30-150					7/9/21 12:52	
Decachlorobiphenyl [2]		89.9	30-150					7/9/21 12:52	
Tetrachloro-m-xylene [1]		86.1	30-150					7/9/21 12:52	
Tetrachloro-m-xylene [2]		86.3	30-150					7/9/21 12:52	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 04B-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1254 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:05	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.4	30-150					7/9/21 13:05	
Decachlorobiphenyl [2]		90.6	30-150					7/9/21 13:05	
Tetrachloro-m-xylene [1]		79.8	30-150					7/9/21 13:05	
Tetrachloro-m-xylene [2]		79.8	30-150					7/9/21 13:05	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 04C-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1254 [2]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:18	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.3	30-150					7/9/21 13:18	
Decachlorobiphenyl [2]		90.0	30-150					7/9/21 13:18	
Tetrachloro-m-xylene [1]		81.4	30-150					7/9/21 13:18	
Tetrachloro-m-xylene [2]		81.9	30-150					7/9/21 13:18	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 11A-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1254 [2]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:31	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.7	30-150					7/9/21 13:31	
Decachlorobiphenyl [2]		86.4	30-150					7/9/21 13:31	
Tetrachloro-m-xylene [1]		83.0	30-150					7/9/21 13:31	
Tetrachloro-m-xylene [2]		83.5	30-150					7/9/21 13:31	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 11B-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-14

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:44	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.1	30-150					7/9/21 13:44	
Decachlorobiphenyl [2]		87.3	30-150					7/9/21 13:44	
Tetrachloro-m-xylene [1]		79.4	30-150					7/9/21 13:44	
Tetrachloro-m-xylene [2]		80.0	30-150					7/9/21 13:44	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 11C-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-15

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 13:57	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.7	30-150					7/9/21 13:57	
Decachlorobiphenyl [2]		85.3	30-150					7/9/21 13:57	
Tetrachloro-m-xylene [1]		86.0	30-150					7/9/21 13:57	
Tetrachloro-m-xylene [2]		86.7	30-150					7/9/21 13:57	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 13A-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-16

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1254 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1260 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:09	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		53.2	30-150					7/9/21 14:09	
Decachlorobiphenyl [2]		55.7	30-150					7/9/21 14:09	
Tetrachloro-m-xylene [1]		49.7	30-150					7/9/21 14:09	
Tetrachloro-m-xylene [2]		50.3	30-150					7/9/21 14:09	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 13B-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-17

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:22	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.3	30-150					7/9/21 14:22	
Decachlorobiphenyl [2]		79.6	30-150					7/9/21 14:22	
Tetrachloro-m-xylene [1]		42.9	30-150					7/9/21 14:22	
Tetrachloro-m-xylene [2]		43.6	30-150					7/9/21 14:22	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0094

Date Received: 7/2/2021

Field Sample #: 13C-SMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0094-18

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/6/21	7/9/21 14:35	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.3	30-150					7/9/21 14:35	
Decachlorobiphenyl [2]		75.7	30-150					7/9/21 14:35	
Tetrachloro-m-xylene [1]		69.2	30-150					7/9/21 14:35	
Tetrachloro-m-xylene [2]		69.9	30-150					7/9/21 14:35	

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0094-01 [01A-SMD-063021-PCB]	B285312	2.01	10.0	07/06/21
21G0094-02 [01B-SMD-063021-PCB]	B285312	2.01	10.0	07/06/21
21G0094-03 [01C-SMD-063021-PCB]	B285312	2.04	10.0	07/06/21
21G0094-04 [02A-SMD-063021-PCB]	B285312	2.03	10.0	07/06/21
21G0094-05 [02B-SMD-063021-PCB]	B285312	2.01	10.0	07/06/21
21G0094-06 [02C-SMD-063021-PCB]	B285312	2.02	10.0	07/06/21
21G0094-07 [03A-SMD-063021-PCB]	B285312	2.00	10.0	07/06/21
21G0094-08 [03B-SMD-063021-PCB]	B285312	2.00	10.0	07/06/21
21G0094-09 [03C-SMD-063021-PCB]	B285312	2.02	10.0	07/06/21
21G0094-10 [04A-SMD-063021-PCB]	B285312	2.03	10.0	07/06/21
21G0094-11 [04B-SMD-063021-PCB]	B285312	2.00	10.0	07/06/21
21G0094-12 [04C-SMD-063021-PCB]	B285312	2.05	10.0	07/06/21
21G0094-13 [11A-SMD-063021-PCB]	B285312	2.04	10.0	07/06/21
21G0094-14 [11B-SMD-063021-PCB]	B285312	2.02	10.0	07/06/21
21G0094-15 [11C-SMD-063021-PCB]	B285312	2.03	10.0	07/06/21
21G0094-16 [13A-SMD-063021-PCB]	B285312	2.00	10.0	07/06/21
21G0094-17 [13B-SMD-063021-PCB]	B285312	2.00	10.0	07/06/21
21G0094-18 [13C-SMD-063021-PCB]	B285312	2.01	10.0	07/06/21



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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
Batch B285312 - SW-846 3540C										
Blank (B285312-BLK1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	ND	0.098	mg/Kg							
Aroclor-1016 [2C]	ND	0.098	mg/Kg							
Aroclor-1221	ND	0.098	mg/Kg							
Aroclor-1221 [2C]	ND	0.098	mg/Kg							
Aroclor-1232	ND	0.098	mg/Kg							
Aroclor-1232 [2C]	ND	0.098	mg/Kg							
Aroclor-1242	ND	0.098	mg/Kg							
Aroclor-1242 [2C]	ND	0.098	mg/Kg							
Aroclor-1248	ND	0.098	mg/Kg							
Aroclor-1248 [2C]	ND	0.098	mg/Kg							
Aroclor-1254	ND	0.098	mg/Kg							
Aroclor-1254 [2C]	ND	0.098	mg/Kg							
Aroclor-1260	ND	0.098	mg/Kg							
Aroclor-1260 [2C]	ND	0.098	mg/Kg							
Aroclor-1262	ND	0.098	mg/Kg							
Aroclor-1262 [2C]	ND	0.098	mg/Kg							
Aroclor-1268	ND	0.098	mg/Kg							
Aroclor-1268 [2C]	ND	0.098	mg/Kg							
Surrogate: Decachlorobiphenyl	0.861		mg/Kg	0.980		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.889		mg/Kg	0.980		90.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.774		mg/Kg	0.980		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.776		mg/Kg	0.980		79.1	30-150			
LCS (B285312-BS1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	0.77	0.099	mg/Kg	0.990		77.6	40-140			
Aroclor-1016 [2C]	0.82	0.099	mg/Kg	0.990		82.3	40-140			
Aroclor-1260	0.73	0.099	mg/Kg	0.990		74.1	40-140			
Aroclor-1260 [2C]	0.75	0.099	mg/Kg	0.990		75.4	40-140			
Surrogate: Decachlorobiphenyl	0.871		mg/Kg	0.990		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.890		mg/Kg	0.990		89.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.821		mg/Kg	0.990		82.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.814		mg/Kg	0.990		82.2	30-150			
LCS Dup (B285312-BSD1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	0.77	0.099	mg/Kg	0.990		77.7	40-140	0.153	30	
Aroclor-1016 [2C]	0.79	0.099	mg/Kg	0.990		80.1	40-140	2.73	30	
Aroclor-1260	0.74	0.099	mg/Kg	0.990		74.7	40-140	0.801	30	
Aroclor-1260 [2C]	0.73	0.099	mg/Kg	0.990		73.8	40-140	2.08	30	
Surrogate: Decachlorobiphenyl	0.850		mg/Kg	0.990		85.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.871		mg/Kg	0.990		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.778		mg/Kg	0.990		78.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.768		mg/Kg	0.990		77.5	30-150			

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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
Batch B285312 - SW-846 3540C										
Matrix Spike (B285312-MS1)										
Source: 21G0094-08										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	0.82	0.10	mg/Kg	1.00	ND	81.8	40-140			
Aroclor-1016 [2C]	0.85	0.10	mg/Kg	1.00	ND	85.4	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00	0.074	76.3	40-140			
Aroclor-1260 [2C]	0.83	0.10	mg/Kg	1.00	0.066	76.2	40-140			
Surrogate: Decachlorobiphenyl	0.879		mg/Kg	1.00		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.910		mg/Kg	1.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.791		mg/Kg	1.00		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.791		mg/Kg	1.00		79.1	30-150			
Matrix Spike Dup (B285312-MSD1)										
Source: 21G0094-08										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	0.82	0.099	mg/Kg	0.990	ND	82.4	40-140	0.356	50	
Aroclor-1016 [2C]	0.85	0.099	mg/Kg	0.990	ND	85.8	40-140	0.550	50	
Aroclor-1260	0.83	0.099	mg/Kg	0.990	0.074	76.4	40-140	0.846	50	
Aroclor-1260 [2C]	0.82	0.099	mg/Kg	0.990	0.066	75.9	40-140	1.30	50	
Surrogate: Decachlorobiphenyl	0.875		mg/Kg	0.990		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.898		mg/Kg	0.990		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.830		mg/Kg	0.990		83.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.835		mg/Kg	0.990		84.3	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

01A-SMD-063021-PCB

SW-846 8082A

 Lab Sample ID: 21G0094-01 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.17	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

04A-SMD-063021-PCB

SW-846 8082A

 Lab Sample ID: 21G0094-10 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.11	8.7

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8082A*Lab Sample ID: B285312-BS1 Date(s) Analyzed: 07/09/2021 07/09/2021Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.82	6.3
Aroclor-1260	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.75	2.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B285312-BSD1 Date(s) Analyzed: 07/09/2021 07/09/2021

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.79	2.6
Aroclor-1260	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	0.73	1.4



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8082A

Lab Sample ID: B285312-MS1 Date(s) Analyzed: 07/09/2021 07/09/2021
 Instrument ID (1): ECD3 Instrument ID (2): ECD3
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.85	3.6
Aroclor-1260	1	0.000	0.000	0.000	0.84	
	2	0.000	0.000	0.000	0.83	1.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES****Matrix Spike Dup***SW-846 8082A*

Lab Sample ID: B285312-MSD1 Date(s) Analyzed: 07/09/2021 07/09/2021
Instrument ID (1): ECD3 Instrument ID (2): ECD3
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.85	3.6
Aroclor-1260	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.82	1.2

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

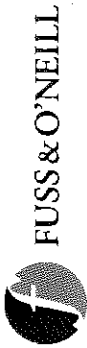
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



FUSS & O'NEILL

108 Myrtle Street, Suite 502, Quincy, MA 02171

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(617) 282-4675

SUBSTRATE

2160094

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 2

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA
 Project Number: 20160717.A30 Building Name/Number: _____ Project Manager: Rob Mallett

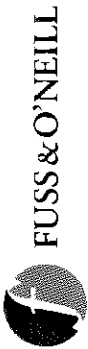
Sample ID (#-Initial-Date-PCB)	Material Type	Location	INTERVAL Substrate(s)	Conc. Code (Below)
1 01A-SMD-0630-105 Interior Conc Column	Rm 128	0"	U	
2 01B-SMD-0630-105 "	"	0-1/2"	U	
3 01C-SMD-0630-105 "	"	1/2-1"		
4 02A-SMD-0630-105 Interior CMV	"	0"		
5 02B-SMD-0630-105 "	"	0-1"		
6 02C-SMD-0630-105 "	"	1-3"		
7 03A-SMD-0630-105 Interior Conc Column	Rm 344	0"		
8 03B-SMD-0630-105 "	"	0-1/2"		
9 03C-SMD-0630-105 "	"	1/2"-1"		

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: SOPANET Contest _____ Turnaround Time: RUSH
 (48-Hour is Fastest)

Concentration Code: **H=High, M=Medium, L=Low, C=Clean, U=Unknown**
 E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: SMW Date: 6/30/21
 Relinquished [By] [To] | [Signature] | F+O FREDRIG | Date: 6/30/21 Time: _____
 Relinquished [By] [To] | [Signature] | Miguel Amador | Date: 7/2/21 Time: 10:30am
 Relinquished [By] [To] | [Signature] | SMW | Date: 7/2/21 Time: 1400



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SUBSTRATE

2160094

PCB Bulk Sample Chain-of-Custody Form

Sheet 2 of 2

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717-A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Interval Substrate(s) DEPTH	Conc. Code (Below)
10 04A-SMD-06301-REB	Interior CMU	RM 344	0"	U
11 04B-"	"	"	0-1"	
12 04C-"	"	"	1-3"	
13 11A-"	Exterior Conc Beam	RM 214	0"	
14 11B-"	"	"	0-1"	
15 11C-"	"	"	1-3"	
16 13A-"	"	RM 284	0"	
17 13B-"	"	"	0-1"	
18 13C-"	"	"	1-3"	

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Soxhlet Contest _____ Turnaround Time: RUSH
(48-Hour is Fastest)

Concentration Code: **H=High, M=Medium, L=Low, C=Clean, U=Unknown**

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: [Signature] Date: 6/30/21

Relinquished [By][To] | [Signature] | F+O FRIEDGIE | Date: 6/30/21 | Time: _____

Relinquished [By][To] | [Signature] | MURRAY BULLOCK | Date: 7/2/21 | Time: 10:30

Relinquished [By][To] | [Signature] | OFFICE | Date: 7/17/21 | Time: 1400

Q:\EnviroScience\Admin\FORMS\PCBs\July 2014 Revised COC Forms

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Fress + O'Neill

Received By [Signature] Date 2/2/21 Time 1400

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 2.0
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's F Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? N/A

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? F

Who was notified? _____

Who was notified? _____

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid N/A Base N/A

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

July 12, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: 197 Vassal Ln, Cambridge, MA
Client Job Number:
Project Number: 20160717.A30
Laboratory Work Order Number: 21G0095

Enclosed are results of analyses for samples received by the laboratory on July 2, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 7/12/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0095

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

PROJECT LOCATION: 197 Vassal Ln, Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
99A-RCM-063021-PCB	21G0095-01	Caulk		SW-846 8082A	
99B-RCM-063021-PCB	21G0095-02	Caulk		SW-846 8082A	
99C-RCM-063021-PCB	21G0095-03	Caulk		SW-846 8082A	
100A-RCM-063021-PCB	21G0095-04	Caulk		SW-846 8082A	
100B-RCM-063021-PCB	21G0095-05	Caulk		SW-846 8082A	
100C-RCM-063021-PCB	21G0095-06	Caulk		SW-846 8082A	
100D-RCM-063021-PCB	21G0095-07	Caulk		SW-846 8082A	
101A-RCM-063021-PCB	21G0095-08	Caulk		SW-846 8082A	
101B-RCM-063021-PCB	21G0095-09	Caulk		SW-846 8082A	
101C-RCM-063021-PCB	21G0095-10	Caulk		SW-846 8082A	
07-RMD-063021-PCB	21G0095-11	Product/Solid		SW-846 8082A	
102-RCM-063021-PCB	21G0095-12	Caulk		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:****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.

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

21G0095-01[99A-RCM-063021-PCB], 21G0095-02[99B-RCM-063021-PCB], 21G0095-03[99C-RCM-063021-PCB], 21G0095-08[101A-RCM-063021-PCB], 21G0095-10[101C-RCM-063021-PCB]

Decachlorobiphenyl [2C]

21G0095-01[99A-RCM-063021-PCB], 21G0095-02[99B-RCM-063021-PCB], 21G0095-03[99C-RCM-063021-PCB], 21G0095-08[101A-RCM-063021-PCB], 21G0095-10[101C-RCM-063021-PCB]

Tetrachloro-m-xylene

21G0095-01[99A-RCM-063021-PCB], 21G0095-02[99B-RCM-063021-PCB], 21G0095-03[99C-RCM-063021-PCB], 21G0095-08[101A-RCM-063021-PCB], 21G0095-10[101C-RCM-063021-PCB]

Tetrachloro-m-xylene [2C]

21G0095-01[99A-RCM-063021-PCB], 21G0095-02[99B-RCM-063021-PCB], 21G0095-03[99C-RCM-063021-PCB], 21G0095-08[101A-RCM-063021-PCB], 21G0095-10[101C-RCM-063021-PCB]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 99A-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1221 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1232 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1242 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1248 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1254 [1]	37	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1260 [1]	34	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1262 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Aroclor-1268 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 12:45	SFM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			7/9/21 12:45	
Decachlorobiphenyl [2]	*	30-150			S-01			7/9/21 12:45	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/9/21 12:45	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/9/21 12:45	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 99B-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1221 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1232 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1242 [1]	18	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1248 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1254 [2]	12	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1260 [1]	11	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1262 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Aroclor-1268 [1]	ND	9.8	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:02	SFM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			7/9/21 13:02	
Decachlorobiphenyl [2]	*	30-150			S-01			7/9/21 13:02	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/9/21 13:02	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/9/21 13:02	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 99C-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-03

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1221 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1232 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1242 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1248 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1254 [1]	20	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1260 [1]	23	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1262 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Aroclor-1268 [1]	ND	9.9	mg/Kg	50		SW-846 8082A	7/6/21	7/9/21 13:20	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			7/9/21 13:20	
Decachlorobiphenyl [2]		*	30-150		S-01			7/9/21 13:20	
Tetrachloro-m-xylene [1]		*	30-150		S-01			7/9/21 13:20	
Tetrachloro-m-xylene [2]		*	30-150		S-01			7/9/21 13:20	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 100A-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-04

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1248 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1254 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1260 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 13:37	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.0	30-150					7/9/21 13:37	
Decachlorobiphenyl [2]		66.8	30-150					7/9/21 13:37	
Tetrachloro-m-xylene [1]		86.1	30-150					7/9/21 13:37	
Tetrachloro-m-xylene [2]		79.2	30-150					7/9/21 13:37	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 100B-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-05

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1221 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1232 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1242 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1248 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1254 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1260 [1]	4.7	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1262 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Aroclor-1268 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	7/9/21	7/10/21 14:58	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.2	30-150					7/10/21 14:58	
Decachlorobiphenyl [2]		66.9	30-150					7/10/21 14:58	
Tetrachloro-m-xylene [1]		73.1	30-150					7/10/21 14:58	
Tetrachloro-m-xylene [2]		68.4	30-150					7/10/21 14:58	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 100C-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-06

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1221 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1232 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1242 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1248 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1254 [1]	0.94	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1260 [1]	3.0	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1262 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Aroclor-1268 [1]	ND	0.80	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:12	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.1	30-150					7/9/21 14:12	
Decachlorobiphenyl [2]		53.8	30-150					7/9/21 14:12	
Tetrachloro-m-xylene [1]		52.0	30-150					7/9/21 14:12	
Tetrachloro-m-xylene [2]		48.2	30-150					7/9/21 14:12	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 100D-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-07

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1248 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1254 [1]	0.91	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1260 [1]	4.2	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 14:30	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		68.7	30-150					7/9/21 14:30	
Decachlorobiphenyl [2]		54.8	30-150					7/9/21 14:30	
Tetrachloro-m-xylene [1]		54.7	30-150					7/9/21 14:30	
Tetrachloro-m-xylene [2]		50.4	30-150					7/9/21 14:30	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 101A-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-08

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1221 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1232 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1242 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1248 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1254 [1]	31	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1260 [2]	7.2	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1262 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Aroclor-1268 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 14:47	SFM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			7/9/21 14:47	
Decachlorobiphenyl [2]	*	30-150			S-01			7/9/21 14:47	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/9/21 14:47	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/9/21 14:47	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 101B-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-09

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1248 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1254 [1]	3.4	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1260 [1]	5.3	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:05	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.8	30-150					7/9/21 15:05	
Decachlorobiphenyl [2]		55.4	30-150					7/9/21 15:05	
Tetrachloro-m-xylene [1]		53.3	30-150					7/9/21 15:05	
Tetrachloro-m-xylene [2]		49.3	30-150					7/9/21 15:05	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 101C-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-10

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1221 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1232 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1242 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1248 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1254 [1]	23	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1260 [2]	8.2	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1262 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Aroclor-1268 [1]	ND	4.0	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:22	SFM
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Decachlorobiphenyl [1]	*	30-150			S-01			7/9/21 15:22	
Decachlorobiphenyl [2]	*	30-150			S-01			7/9/21 15:22	
Tetrachloro-m-xylene [1]	*	30-150			S-01			7/9/21 15:22	
Tetrachloro-m-xylene [2]	*	30-150			S-01			7/9/21 15:22	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 07-RMD-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1221 [1]	ND	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1232 [1]	ND	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1242 [2]	2.9	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1248 [1]	ND	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1254 [2]	24	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1260 [1]	3.1	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1262 [1]	ND	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Aroclor-1268 [1]	ND	2.1	mg/Kg	20		SW-846 8082A	7/6/21	7/9/21 15:07	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		108	30-150					7/9/21 15:07	
Decachlorobiphenyl [2]		114	30-150					7/9/21 15:07	
Tetrachloro-m-xylene [1]		104	30-150					7/9/21 15:07	
Tetrachloro-m-xylene [2]		108	30-150					7/9/21 15:07	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0095

Date Received: 7/2/2021

Field Sample #: 102-RCM-063021-PCB

Sampled: 6/30/2021 00:00

Sample ID: 21G0095-12

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1221 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1232 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1242 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1248 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1254 [1]	1.2	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1260 [1]	4.1	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1262 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Aroclor-1268 [1]	ND	0.79	mg/Kg	4		SW-846 8082A	7/6/21	7/9/21 15:40	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.1	30-150					7/9/21 15:40	
Decachlorobiphenyl [2]		57.1	30-150					7/9/21 15:40	
Tetrachloro-m-xylene [1]		56.7	30-150					7/9/21 15:40	
Tetrachloro-m-xylene [2]		51.8	30-150					7/9/21 15:40	

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0095-01 [99A-RCM-063021-PCB]	B285314	0.509	10.0	07/06/21
21G0095-02 [99B-RCM-063021-PCB]	B285314	0.510	10.0	07/06/21
21G0095-03 [99C-RCM-063021-PCB]	B285314	0.504	10.0	07/06/21
21G0095-04 [100A-RCM-063021-PCB]	B285314	0.508	10.0	07/06/21
21G0095-06 [100C-RCM-063021-PCB]	B285314	0.501	10.0	07/06/21
21G0095-07 [100D-RCM-063021-PCB]	B285314	0.509	10.0	07/06/21
21G0095-08 [101A-RCM-063021-PCB]	B285314	0.504	10.0	07/06/21
21G0095-09 [101B-RCM-063021-PCB]	B285314	0.504	10.0	07/06/21
21G0095-10 [101C-RCM-063021-PCB]	B285314	0.505	10.0	07/06/21
21G0095-12 [102-RCM-063021-PCB]	B285314	0.505	10.0	07/06/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0095-05RE1 [100B-RCM-063021-PCB]	B285672	0.530	10.0	07/09/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0095-11 [07-RMD-063021-PCB]	B285312	1.87	10.0	07/06/21

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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
Batch B285312 - SW-846 3540C										
Blank (B285312-BLK1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	ND	0.098	mg/Kg							
Aroclor-1016 [2C]	ND	0.098	mg/Kg							
Aroclor-1221	ND	0.098	mg/Kg							
Aroclor-1221 [2C]	ND	0.098	mg/Kg							
Aroclor-1232	ND	0.098	mg/Kg							
Aroclor-1232 [2C]	ND	0.098	mg/Kg							
Aroclor-1242	ND	0.098	mg/Kg							
Aroclor-1242 [2C]	ND	0.098	mg/Kg							
Aroclor-1248	ND	0.098	mg/Kg							
Aroclor-1248 [2C]	ND	0.098	mg/Kg							
Aroclor-1254	ND	0.098	mg/Kg							
Aroclor-1254 [2C]	ND	0.098	mg/Kg							
Aroclor-1260	ND	0.098	mg/Kg							
Aroclor-1260 [2C]	ND	0.098	mg/Kg							
Aroclor-1262	ND	0.098	mg/Kg							
Aroclor-1262 [2C]	ND	0.098	mg/Kg							
Aroclor-1268	ND	0.098	mg/Kg							
Aroclor-1268 [2C]	ND	0.098	mg/Kg							
Surrogate: Decachlorobiphenyl	0.861		mg/Kg	0.980		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.889		mg/Kg	0.980		90.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.774		mg/Kg	0.980		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.776		mg/Kg	0.980		79.1	30-150			
LCS (B285312-BS1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	0.77	0.099	mg/Kg	0.990		77.6	40-140			
Aroclor-1016 [2C]	0.82	0.099	mg/Kg	0.990		82.3	40-140			
Aroclor-1260	0.73	0.099	mg/Kg	0.990		74.1	40-140			
Aroclor-1260 [2C]	0.75	0.099	mg/Kg	0.990		75.4	40-140			
Surrogate: Decachlorobiphenyl	0.871		mg/Kg	0.990		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.890		mg/Kg	0.990		89.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.821		mg/Kg	0.990		82.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.814		mg/Kg	0.990		82.2	30-150			
LCS Dup (B285312-BSD1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	0.77	0.099	mg/Kg	0.990		77.7	40-140	0.153	30	
Aroclor-1016 [2C]	0.79	0.099	mg/Kg	0.990		80.1	40-140	2.73	30	
Aroclor-1260	0.74	0.099	mg/Kg	0.990		74.7	40-140	0.801	30	
Aroclor-1260 [2C]	0.73	0.099	mg/Kg	0.990		73.8	40-140	2.08	30	
Surrogate: Decachlorobiphenyl	0.850		mg/Kg	0.990		85.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.871		mg/Kg	0.990		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.778		mg/Kg	0.990		78.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.768		mg/Kg	0.990		77.5	30-150			

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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
Batch B285314 - SW-846 3540C										
Blank (B285314-BLK1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
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	3.37		mg/Kg	3.93		85.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.21		mg/Kg	3.93		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	3.11		mg/Kg	3.93		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.02		mg/Kg	3.93		77.0	30-150			
LCS (B285314-BS1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	3.3	0.20	mg/Kg	3.99		82.9	40-140			
Aroclor-1016 [2C]	3.2	0.20	mg/Kg	3.99		80.3	40-140			
Aroclor-1260	3.2	0.20	mg/Kg	3.99		79.8	40-140			
Aroclor-1260 [2C]	2.9	0.20	mg/Kg	3.99		73.2	40-140			
Surrogate: Decachlorobiphenyl	3.51		mg/Kg	3.99		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.36		mg/Kg	3.99		84.2	30-150			
Surrogate: Tetrachloro-m-xylene	3.18		mg/Kg	3.99		79.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.11		mg/Kg	3.99		78.1	30-150			
LCS Dup (B285314-BSD1)										
Prepared: 07/06/21 Analyzed: 07/09/21										
Aroclor-1016	3.7	0.20	mg/Kg	3.99		92.5	40-140	11.0	30	
Aroclor-1016 [2C]	3.6	0.20	mg/Kg	3.99		89.7	40-140	11.1	30	
Aroclor-1260	3.5	0.20	mg/Kg	3.99		87.5	40-140	9.29	30	
Aroclor-1260 [2C]	3.2	0.20	mg/Kg	3.99		79.8	40-140	8.58	30	
Surrogate: Decachlorobiphenyl	3.86		mg/Kg	3.99		96.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.66		mg/Kg	3.99		91.7	30-150			
Surrogate: Tetrachloro-m-xylene	3.66		mg/Kg	3.99		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.56		mg/Kg	3.99		89.3	30-150			



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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
Batch B285672 - SW-846 3540C										
Blank (B285672-BLK1)										
Prepared: 07/09/21 Analyzed: 07/10/21										
Aroclor-1016	ND	0.17	mg/Kg							
Aroclor-1016 [2C]	ND	0.17	mg/Kg							
Aroclor-1221	ND	0.17	mg/Kg							
Aroclor-1221 [2C]	ND	0.17	mg/Kg							
Aroclor-1232	ND	0.17	mg/Kg							
Aroclor-1232 [2C]	ND	0.17	mg/Kg							
Aroclor-1242	ND	0.17	mg/Kg							
Aroclor-1242 [2C]	ND	0.17	mg/Kg							
Aroclor-1248	ND	0.17	mg/Kg							
Aroclor-1248 [2C]	ND	0.17	mg/Kg							
Aroclor-1254	ND	0.17	mg/Kg							
Aroclor-1254 [2C]	ND	0.17	mg/Kg							
Aroclor-1260	ND	0.17	mg/Kg							
Aroclor-1260 [2C]	ND	0.17	mg/Kg							
Aroclor-1262	ND	0.17	mg/Kg							
Aroclor-1262 [2C]	ND	0.17	mg/Kg							
Aroclor-1268	ND	0.17	mg/Kg							
Aroclor-1268 [2C]	ND	0.17	mg/Kg							
Surrogate: Decachlorobiphenyl	3.13		mg/Kg	3.36		93.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.85		mg/Kg	3.36		84.8	30-150			
Surrogate: Tetrachloro-m-xylene	2.86		mg/Kg	3.36		85.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.62		mg/Kg	3.36		78.1	30-150			
LCS (B285672-BS1)										
Prepared: 07/09/21 Analyzed: 07/10/21										
Aroclor-1016	3.8	0.19	mg/Kg	3.86		97.4	40-140			
Aroclor-1016 [2C]	2.8	0.19	mg/Kg	3.86		72.5	40-140			
Aroclor-1260	3.1	0.19	mg/Kg	3.86		79.0	40-140			
Aroclor-1260 [2C]	2.8	0.19	mg/Kg	3.86		72.4	40-140			
Surrogate: Decachlorobiphenyl	3.62		mg/Kg	3.86		93.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.28		mg/Kg	3.86		84.8	30-150			
Surrogate: Tetrachloro-m-xylene	3.31		mg/Kg	3.86		85.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.03		mg/Kg	3.86		78.4	30-150			
LCS Dup (B285672-BSD1)										
Prepared: 07/09/21 Analyzed: 07/10/21										
Aroclor-1016	3.2	0.17	mg/Kg	3.36		96.4	40-140	15.0	30	
Aroclor-1016 [2C]	2.4	0.17	mg/Kg	3.36		71.0	40-140	16.0	30	
Aroclor-1260	2.5	0.17	mg/Kg	3.36		75.4	40-140	18.5	30	
Aroclor-1260 [2C]	2.3	0.17	mg/Kg	3.36		68.8	40-140	19.1	30	
Surrogate: Decachlorobiphenyl	3.02		mg/Kg	3.36		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.74		mg/Kg	3.36		81.4	30-150			
Surrogate: Tetrachloro-m-xylene	2.70		mg/Kg	3.36		80.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.48		mg/Kg	3.36		73.8	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

99A-RCM-063021-PCB
SW-846 8082A

 Lab Sample ID: 21G0095-01 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	37	
	2	0.000	0.000	0.000	28	27.7
Aroclor-1260	1	0.000	0.000	0.000	34	
	2	0.000	0.000	0.000	31	9.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

99B-RCM-063021-PCB
SW-846 8082A

 Lab Sample ID: 21G0095-02 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	18	
	2	0.000	0.000	0.000	15	18.2
Aroclor-1254	1	0.000	0.000	0.000	11	
	2	0.000	0.000	0.000	12	8.7
Aroclor-1260	1	0.000	0.000	0.000	11	
	2	0.000	0.000	0.000	9.9	10.5



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

99C-RCM-063021-PCB

SW-846 8082A

Lab Sample ID: 21G0095-03 Date(s) Analyzed: 07/09/2021 07/09/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	20	
	2	0.000	0.000	0.000	17	16.2
Aroclor-1260	1	0.000	0.000	0.000	23	
	2	0.000	0.000	0.000	20	14.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

100B-RCM-063021-PCB
SW-846 8082A

 Lab Sample ID: 21G0095-05RE1 Date(s) Analyzed: 07/10/2021 07/10/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	4.7	
	2	0.000	0.000	0.000	4.4	6.6

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

100C-RCM-063021-PCB
SW-846 8082A

 Lab Sample ID: 21G0095-06 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	2.7	10.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

100D-RCM-063021-PCB
SW-846 8082A

 Lab Sample ID: 21G0095-07 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	4.2	
	2	0.000	0.000	0.000	3.8	10.0



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

101A-RCM-063021-PCB

SW-846 8082A

Lab Sample ID: 21G0095-08 Date(s) Analyzed: 07/09/2021 07/09/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	31	
	2	0.000	0.000	0.000	29	9.8
Aroclor-1260	1	0.000	0.000	0.000	6.1	
	2	0.000	0.000	0.000	7.2	16.5



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

101B-RCM-063021-PCB

SW-846 8082A

Lab Sample ID: 21G0095-09 Date(s) Analyzed: 07/09/2021 07/09/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	3.4	
	2	0.000	0.000	0.000	2.5	30.5
Aroclor-1260	1	0.000	0.000	0.000	5.3	
	2	0.000	0.000	0.000	4.7	12.0



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

101C-RCM-063021-PCB

SW-846 8082A

Lab Sample ID: 21G0095-10 Date(s) Analyzed: 07/09/2021 07/09/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	23	
	2	0.000	0.000	0.000	21	9.1
Aroclor-1260	1	0.000	0.000	0.000	7.9	
	2	0.000	0.000	0.000	8.2	3.7

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

07-RMD-063021-PCB

SW-846 8082A

Lab Sample ID: 21G0095-11 Date(s) Analyzed: 07/09/2021 07/09/2021
 Instrument ID (1): ECD3 Instrument ID (2): ECD3
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	2.3	
	2	0.000	0.000	0.000	2.9	23.1
Aroclor-1254	1	0.000	0.000	0.000	23	
	2	0.000	0.000	0.000	24	4.3
Aroclor-1260	1	0.000	0.000	0.000	3.1	
	2	0.000	0.000	0.000	2.8	10.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

102-RCM-063021-PCB
SW-846 8082A

 Lab Sample ID: 21G0095-12 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	1.2	
	2	0.000	0.000	0.000	0.96	22.2
Aroclor-1260	1	0.000	0.000	0.000	4.1	
	2	0.000	0.000	0.000	3.7	10.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B285312-BS1 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.82	6.3
Aroclor-1260	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.75	2.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8082A

 Lab Sample ID: B285312-BSD1 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.79	2.6
Aroclor-1260	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	0.73	1.4



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B285314-BS1 Date(s) Analyzed: 07/09/2021 07/09/2021
 Instrument ID (1): ECD4 Instrument ID (2): ECD4
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	3.3	
	2	0.000	0.000	0.000	3.2	3.1
Aroclor-1260	1	0.000	0.000	0.000	3.2	
	2	0.000	0.000	0.000	2.9	9.8

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8082A

 Lab Sample ID: B285314-BSD1 Date(s) Analyzed: 07/09/2021 07/09/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	3.7	
	2	0.000	0.000	0.000	3.6	2.7
Aroclor-1260	1	0.000	0.000	0.000	3.5	
	2	0.000	0.000	0.000	3.2	9.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B285672-BS1 Date(s) Analyzed: 07/10/2021 07/10/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	3.8	
	2	0.000	0.000	0.000	2.8	30.3
Aroclor-1260	1	0.000	0.000	0.000	3.1	
	2	0.000	0.000	0.000	2.8	10.2

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
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,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



FUSS & O'NEILL

108 Myrtle Street, Suite 502, Quincy, MA 02171

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216000

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 2

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA

Project Number: 20160717-A30 Building Name/Number: _____ Project Manager: Rob Mallett

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Substrate(s)	Conc. Code (Below)
06-20-09-06-000000	Interior Window Caulking Bead	Rm 216	Conc CMU	U
08-29-09-06-000000	Exterior Window Caulking Bead	Rm 216	Conc CMU	U
12-22-09-06-000000	Window Bead	Rm 216	Conc CMU	U
1 99A-RCM-0630-1-05	Back Top of Window Bead	Rm 304	Conc CMU	U
2 99B-06-06-000000	Black Vent Bead	Rm 128	↓	U
3 99C-06-06-000000	↓	Rm 244	↓	U
4 100A-06-06-000000	Grey Exterior Joint Caulking	Gym facing field	↓	U
5 100B-06-06-000000	↓	EAST Elevation	↓	U
6 100C-06-06-000000	↓	South Elevation, left of main stair	↓	U
7 100D-06-06-000000	↓	West Elevation	↓	U

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Contest Turnaround Time: RUSH
(48-Hour is Fastest)

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

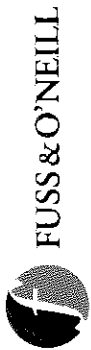
Samples Collected By: RM/smb Date: 6/30/21

Relinquished [By][To] [RM/smb] [FTO Presyde] Date: 6/30/21 Time: 10:30am

Relinquished [By][To] [RM/smb] [August Mallett] Date: 7/2/21 Time: 140

Relinquished [By][To] [August Mallett] [2.0] Date: 7/2/21 Time: 140

Q:\EnviroScience\Admin\FORMS\PCBs\July 2014 Revised COC Forms



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21600AS

PCB Bulk Sample Chain-of-Custody Form

Sheet 2 of 2

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA
 Project Number: 20160717.A30 Building Name/Number: _____ Project Manager: Rob Mallett

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Substrate(s)	Conc. Code (Below)
8 101A-RCM-063021-RS	Grey Interior Joint Caulking	Arc Room Storage	Conc CMU	U
9 101B- " "	↓	2nd Floor Electrical	↓	↓
10 101C- " "	↓	A-Wing Stairwell (Top Joint)	N/A	↓
11 07-2MD-063021-RS	Yellow Seat Cushion Material	Auditorium		
D 102-RCM-063021-PR	Tan Exterior Joint Caulking	Roof B Section	Conc CMU	U

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Soxhlet Contest: _____ Turnaround Time: RUSH
 (48-Hour is Fastest)

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: RCM / JMD Date: 6/30/21

Relinquished [By][To] | [Signature] | F to FRANGE | Date: 7/7/21 Time: 10:30 am

Relinquished [By][To] | ALBERT MULLER | ALBERT MULLER | Date: 7/7/21 Time: 1400

Relinquished [By][To] | ALBERT MULLER | ALBERT MULLER | Date: 7/7/21 Time: 1400

Q:\EnviroScience\Admin\FORMS\PCBs\July 2014 Revised COC Forms

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Frost O'Neill

Received By [Signature] Date 7/2/21 Time 1400

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 2.0
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? n/a MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? _____ Acid n/a Base n/a

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

July 19, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: 197 Vassel Ln, Cambridge, MA
Client Job Number:
Project Number: 20160717.A30 Task C30
Laboratory Work Order Number: 21G0701

Enclosed are results of analyses for samples received by the laboratory on July 14, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 7/19/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30 Task C30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0701

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

PROJECT LOCATION: 197 Vassel Ln, Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
01A-SMD-210713-PCB	21G0701-01	Concrete	exterior CMU-Conc @ window caulking	SW-846 8082A	
01B-SMD-210713-PCB	21G0701-02	Concrete	exterior CMU-Conc @ window caulking	SW-846 8082A	
01C-SMD-210713-PCB	21G0701-03	Concrete	exterior CMU-Conc @ window caulking	SW-846 8082A	
02A-SMD-210713-PCB	21G0701-04	Concrete	exterior CMU-conc@joint	SW-846 8082A	
03A-SMD-210713-PCB	21G0701-05	Concrete	exterior Col-conc@join	SW-846 8082A	
04A-SMD-210713-PCB	21G0701-06	Concrete	exterior-CMU-conc@window caulking	SW-846 8082A	
04B-SMD-210713-PCB	21G0701-07	Concrete	exterior-CMU-conc@window caulking	SW-846 8082A	
04C-SMD-210713-PCB	21G0701-08	Concrete	exterior-CMU-conc@window caulking	SW-846 8082A	
05A-SMD-210713-PCB	21G0701-09	Concrete	interior -CMU-conc@window caulking	SW-846 8082A	
05B-SMD-210713-PCB	21G0701-10	Concrete	interior -CMU-conc@window caulking	SW-846 8082A	
05C-SMD-210713-PCB	21G0701-11	Concrete	interior-CMU-conc@window caulking	SW-846 8082A	
06A-SMD-210713-PCB	21G0701-12	Concrete	interior -CMU-conc@window caulking	SW-846 8082A	
06B-SMD-210713-PCB	21G0701-13	Concrete	interior -CMU-conc@window caulking	SW-846 8082A	
06C-SMD-210713-PCB	21G0701-14	Concrete	interior -CMU-conc@window caulking	SW-846 8082A	
07A-SMD-210713-PCB	21G0701-15	Concrete	interior-CMU-Conc@joint	SW-846 8082A	
08A-SMD-210713-PCB	21G0701-16	Concrete	interior-COL-conc@joint	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.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior CMU-Conc @ window caulki

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 01A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1254 [1]	0.18	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1260 [1]	0.86	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 16:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		98.1	30-150					7/16/21 16:59	
Decachlorobiphenyl [2]		91.4	30-150					7/16/21 16:59	
Tetrachloro-m-xylene [1]		96.7	30-150					7/16/21 16:59	
Tetrachloro-m-xylene [2]		93.3	30-150					7/16/21 16:59	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior CMU-Conc @ window caulki

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 01B-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1254 [1]	0.15	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1260 [1]	0.78	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.2	30-150					7/16/21 17:16	
Decachlorobiphenyl [2]		90.6	30-150					7/16/21 17:16	
Tetrachloro-m-xylene [1]		98.5	30-150					7/16/21 17:16	
Tetrachloro-m-xylene [2]		95.0	30-150					7/16/21 17:16	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior CMU-Conc @ window caulki

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 01C-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1260 [1]	0.47	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 17:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.0	30-150					7/16/21 17:34	
Decachlorobiphenyl [2]		84.8	30-150					7/16/21 17:34	
Tetrachloro-m-xylene [1]		97.6	30-150					7/16/21 17:34	
Tetrachloro-m-xylene [2]		94.6	30-150					7/16/21 17:34	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior CMU-conc@joint

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 02A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:23	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.0	30-150					7/16/21 20:23	
Decachlorobiphenyl [2]		92.2	30-150					7/16/21 20:23	
Tetrachloro-m-xylene [1]		97.3	30-150					7/16/21 20:23	
Tetrachloro-m-xylene [2]		93.5	30-150					7/16/21 20:23	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior Col-conc@join

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 03A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:41	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		109	30-150					7/16/21 20:41	
Decachlorobiphenyl [2]		102	30-150					7/16/21 20:41	
Tetrachloro-m-xylene [1]		100	30-150					7/16/21 20:41	
Tetrachloro-m-xylene [2]		95.0	30-150					7/16/21 20:41	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior-CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 04A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 20:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.7	30-150					7/16/21 20:59	
Decachlorobiphenyl [2]		70.5	30-150					7/16/21 20:59	
Tetrachloro-m-xylene [1]		75.4	30-150					7/16/21 20:59	
Tetrachloro-m-xylene [2]		73.1	30-150					7/16/21 20:59	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior-CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 04B-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.9	30-150					7/16/21 21:16	
Decachlorobiphenyl [2]		87.8	30-150					7/16/21 21:16	
Tetrachloro-m-xylene [1]		90.3	30-150					7/16/21 21:16	
Tetrachloro-m-xylene [2]		86.8	30-150					7/16/21 21:16	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: exterior-CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 04C-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.6	30-150					7/16/21 21:34	
Decachlorobiphenyl [2]		87.4	30-150					7/16/21 21:34	
Tetrachloro-m-xylene [1]		95.7	30-150					7/16/21 21:34	
Tetrachloro-m-xylene [2]		92.4	30-150					7/16/21 21:34	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior -CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 05A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1254 [2]	0.11	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1260 [1]	0.16	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 21:52	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.2	30-150					7/16/21 21:52	
Decachlorobiphenyl [2]		87.2	30-150					7/16/21 21:52	
Tetrachloro-m-xylene [1]		97.2	30-150					7/16/21 21:52	
Tetrachloro-m-xylene [2]		93.7	30-150					7/16/21 21:52	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior -CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 05B-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1260 [1]	0.12	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:10	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.4	30-150					7/16/21 22:10	
Decachlorobiphenyl [2]		79.1	30-150					7/16/21 22:10	
Tetrachloro-m-xylene [1]		89.3	30-150					7/16/21 22:10	
Tetrachloro-m-xylene [2]		86.3	30-150					7/16/21 22:10	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior-CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 05C-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1254 [2]	0.14	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1260 [1]	0.25	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:27	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					7/16/21 22:27	
Decachlorobiphenyl [2]		95.0	30-150					7/16/21 22:27	
Tetrachloro-m-xylene [1]		95.1	30-150					7/16/21 22:27	
Tetrachloro-m-xylene [2]		91.8	30-150					7/16/21 22:27	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior -CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 06A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1248 [2]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1254 [2]	0.16	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 22:45	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.4	30-150					7/16/21 22:45	
Decachlorobiphenyl [2]		88.7	30-150					7/16/21 22:45	
Tetrachloro-m-xylene [1]		92.2	30-150					7/16/21 22:45	
Tetrachloro-m-xylene [2]		89.1	30-150					7/16/21 22:45	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior -CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 06B-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1248 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1254 [2]	0.19	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1260 [1]	0.13	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:03	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					7/16/21 23:03	
Decachlorobiphenyl [2]		95.2	30-150					7/16/21 23:03	
Tetrachloro-m-xylene [1]		97.8	30-150					7/16/21 23:03	
Tetrachloro-m-xylene [2]		94.2	30-150					7/16/21 23:03	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior -CMU-conc@window caulking

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 06C-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-14

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1254 [2]	0.16	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1260 [1]	0.12	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:20	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.5	30-150					7/16/21 23:20	
Decachlorobiphenyl [2]		92.9	30-150					7/16/21 23:20	
Tetrachloro-m-xylene [1]		93.1	30-150					7/16/21 23:20	
Tetrachloro-m-xylene [2]		89.7	30-150					7/16/21 23:20	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior-CMU-Conc@joint

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 07A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-15

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1248 [1]	0.24	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1254 [2]	0.45	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1260 [1]	0.23	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:38	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.0	30-150					7/16/21 23:38	
Decachlorobiphenyl [2]		83.1	30-150					7/16/21 23:38	
Tetrachloro-m-xylene [1]		95.1	30-150					7/16/21 23:38	
Tetrachloro-m-xylene [2]		91.8	30-150					7/16/21 23:38	

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Project Location: 197 Vassel Ln, Cambridge, MA

Sample Description: interior-COL-conc@joint

Work Order: 21G0701

Date Received: 7/14/2021

Field Sample #: 08A-SMD-210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0701-16

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1248 [2]	0.24	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1254 [2]	0.53	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1260 [1]	0.38	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	7/14/21	7/16/21 23:56	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.7	30-150					7/16/21 23:56	
Decachlorobiphenyl [2]		83.8	30-150					7/16/21 23:56	
Tetrachloro-m-xylene [1]		84.1	30-150					7/16/21 23:56	
Tetrachloro-m-xylene [2]		82.5	30-150					7/16/21 23:56	

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0701-01 [01A-SMD-210713-PCB]	B285995	2.02	10.0	07/14/21
21G0701-02 [01B-SMD-210713-PCB]	B285995	2.04	10.0	07/14/21
21G0701-03 [01C-SMD-210713-PCB]	B285995	2.02	10.0	07/14/21
21G0701-04 [02A-SMD-210713-PCB]	B285995	2.09	10.0	07/14/21
21G0701-05 [03A-SMD-210713-PCB]	B285995	2.00	10.0	07/14/21
21G0701-06 [04A-SMD-210713-PCB]	B285995	2.03	10.0	07/14/21
21G0701-07 [04B-SMD-210713-PCB]	B285995	2.07	10.0	07/14/21
21G0701-08 [04C-SMD-210713-PCB]	B285995	2.04	10.0	07/14/21
21G0701-09 [05A-SMD-210713-PCB]	B285995	2.00	10.0	07/14/21
21G0701-10 [05B-SMD-210713-PCB]	B285995	2.03	10.0	07/14/21
21G0701-11 [05C-SMD-210713-PCB]	B285995	2.04	10.0	07/14/21
21G0701-12 [06A-SMD-210713-PCB]	B285995	2.03	10.0	07/14/21
21G0701-13 [06B-SMD-210713-PCB]	B285995	2.00	10.0	07/14/21
21G0701-14 [06C-SMD-210713-PCB]	B285995	2.07	10.0	07/14/21
21G0701-15 [07A-SMD-210713-PCB]	B285995	2.04	10.0	07/14/21
21G0701-16 [08A-SMD-210713-PCB]	B285995	2.00	10.0	07/14/21

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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
Batch B285995 - SW-846 3540C										
Blank (B285995-BLK1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	ND	0.092	mg/Kg							
Aroclor-1016 [2C]	ND	0.092	mg/Kg							
Aroclor-1221	ND	0.092	mg/Kg							
Aroclor-1221 [2C]	ND	0.092	mg/Kg							
Aroclor-1232	ND	0.092	mg/Kg							
Aroclor-1232 [2C]	ND	0.092	mg/Kg							
Aroclor-1242	ND	0.092	mg/Kg							
Aroclor-1242 [2C]	ND	0.092	mg/Kg							
Aroclor-1248	ND	0.092	mg/Kg							
Aroclor-1248 [2C]	ND	0.092	mg/Kg							
Aroclor-1254	ND	0.092	mg/Kg							
Aroclor-1254 [2C]	ND	0.092	mg/Kg							
Aroclor-1260	ND	0.092	mg/Kg							
Aroclor-1260 [2C]	ND	0.092	mg/Kg							
Aroclor-1262	ND	0.092	mg/Kg							
Aroclor-1262 [2C]	ND	0.092	mg/Kg							
Aroclor-1268	ND	0.092	mg/Kg							
Aroclor-1268 [2C]	ND	0.092	mg/Kg							
Surrogate: Decachlorobiphenyl	0.953		mg/Kg	0.922		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.886		mg/Kg	0.922		96.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.885		mg/Kg	0.922		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.861		mg/Kg	0.922		93.4	30-150			
LCS (B285995-BS1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.88	0.099	mg/Kg	0.985		88.9	40-140			
Aroclor-1016 [2C]	0.84	0.099	mg/Kg	0.985		85.3	40-140			
Aroclor-1260	0.86	0.099	mg/Kg	0.985		87.5	40-140			
Aroclor-1260 [2C]	0.78	0.099	mg/Kg	0.985		79.6	40-140			
Surrogate: Decachlorobiphenyl	0.999		mg/Kg	0.985		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.929		mg/Kg	0.985		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.935		mg/Kg	0.985		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.909		mg/Kg	0.985		92.2	30-150			
LCS Dup (B285995-BSD1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.87	0.098	mg/Kg	0.980		89.2	40-140	0.0742	30	
Aroclor-1016 [2C]	0.85	0.098	mg/Kg	0.980		86.9	40-140	1.32	30	
Aroclor-1260	0.89	0.098	mg/Kg	0.980		90.3	40-140	2.66	30	
Aroclor-1260 [2C]	0.80	0.098	mg/Kg	0.980		81.8	40-140	2.25	30	
Surrogate: Decachlorobiphenyl	1.02		mg/Kg	0.980		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.950		mg/Kg	0.980		96.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.876		mg/Kg	0.980		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.853		mg/Kg	0.980		87.1	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

01A-SMD-210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0701-01 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.18	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.86	
	2	0.000	0.000	0.000	0.78	9.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

01B-SMD-210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0701-02 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.13	14.3
Aroclor-1260	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	0.71	9.4

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

01C-SMD-210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0701-03 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.47	
	2	0.000	0.000	0.000	0.43	8.9

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

05A-SMD-210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0701-09 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.14	13.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

05B-SMD-210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0701-10 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.10	18.2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

05C-SMD-210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0701-11 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.14	15.4
Aroclor-1260	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.21	17.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

06A-SMD-210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0701-12 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.16	13.3



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

06B-SMD-210713-PCB

SW-846 8082A

Lab Sample ID: 21G0701-13 Date(s) Analyzed: 07/16/2021 07/16/2021
 Instrument ID (1): ECD4 Instrument ID (2): ECD4
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.19	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.11	16.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

06C-SMD-210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0701-14 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.16	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.098	20.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

07A-SMD-210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0701-15 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.24	
	2	0.000	0.000	0.000	0.20	18.2
Aroclor-1254	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.45	4.6
Aroclor-1260	1	0.000	0.000	0.000	0.23	
	2	0.000	0.000	0.000	0.20	14.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

08A-SMD-210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0701-16 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.23	
	2	0.000	0.000	0.000	0.24	4.3
Aroclor-1254	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.53	16.3
Aroclor-1260	1	0.000	0.000	0.000	0.38	
	2	0.000	0.000	0.000	0.34	13.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B285995-BS1 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.84	4.7
Aroclor-1260	1	0.000	0.000	0.000	0.86	
	2	0.000	0.000	0.000	0.78	9.8

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



FUSS & O'NEILL

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2160701

SUBSTRATE SAMPLE

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 2

Project Name: Tobin Vassal School Demo Building Name/Number: 20160717.A30 Project Manager: Rob Mallett
Site Address: 197 Vassal Ln, Cambridge, MA

Sample ID (#-Initial-Date-PCB)	Material Type	Location	INTERVAL Substrate(s)	Conc. Code (Below)
01A-SMP-2160717-PCB	EXTERIOR CMU-CONC @ WINDOW CAULKING	RM 214	0"	U
01B-"	↓	↓	1"	
01C-"	↓	↓	3"	
02A	EXTERIOR CMU-CONC @ JOINT	↓	0"	
03A	EXTERIOR COL-CONC @ JOINT	↓	0"	
04A	EXTERIOR CMU-CONC @ WINDOW CAULKING	RM 284	0"	
04B	↓	↓	1"	
04C	↓	↓	3"	
05A	Interior-CMU-CONC @ WINDOW CAULKING	RM 344	0"	
05B	↓	↓	1"	

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Contest Turnaround Time: RUSH 2-DAY (48-Hour is Fastest)

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown E-Mail PDF of Results to: RMallett@fando.com.

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

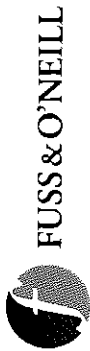
Samples Collected By: [Signature] SMP

Relinquished [By][To] | [Signature] | F40 FRIDGE | Date: 7/13/21 | Time: 1407

Relinquished [By][To] | [Signature] | [Signature] | Date: 7/13/21 | Time: 1120

Relinquished [By][To] | [Signature] | 3-0 | Date: 7/14/21 | Time: 1800

Q:\EnviroScience\Adrain\FORMS\PCBs\July 2014 Revised COC Forms



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SUBSTRATE SAMPLE PCB Break Sample Chain-of-Custody Form

2160701

Sheet 2 of 2

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717.A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Interval Substrate(s)	Conc. Code (Below)
01 05C-SM-D-210713-VEB	Interior-CMU-Conc @ ^{Willow} Low ^{Counting}	RM 344	3"	U
12 06A-	↓	RM 216	0"	↓
13 06B	↓		1"	↓
14 06C	↓		3"	↓
15 07A	Interior-CMU-Conc @ Joint	↓	0"	↓
16 08A	Interior-Col-Conc @ Joint	↓	0"	↓

Turnaround Time: RM 2-DAY
~~Standard~~
 (48-Hour is Fastest)

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: _____ Contest _____

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: SMR

Relinquished [By][To]	<u>[Signature]</u> <u>F+O Fridge</u>	Date: <u>7/13/21</u>	Time: <u>1407</u>
Relinquished [By][To]	<u>[Signature]</u> <u>[Signature]</u>	Date: <u>7/14/21</u>	Time: <u>1122</u>
Relinquished [By][To]	<u>[Signature]</u> <u>[Signature]</u>	Date: <u>7/14/21</u>	Time: <u>1800</u>

Q:\EnviroScience\Admin\FORMS\PCBs\July 2014 Revised COC Forms

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Fuss + O'Neill

Received By [Signature] Date 2/14/21 Time 1700

How were the samples received?
 In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 3.6
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? Jacuse
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? n/a MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? Acid n/a Base n/a

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

July 19, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: 197 Vassal Ln, Cambridge, MA
Client Job Number:
Project Number: 20160717.A30 Task C30
Laboratory Work Order Number: 21G0696

Enclosed are results of analyses for samples received by the laboratory on July 14, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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 Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 7/19/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30 Task C30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0696

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

PROJECT LOCATION: 197 Vassal Ln, Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D01-RCM-20210713-PCB	21G0696-01	Product/Solid	South Face o/s door 9 dipline	SW-846 8082A	
D02-RCM-20210713-PCB	21G0696-02	Soil	West Face @ building face	SM 2540G	
				SW-846 8082A	
D03-RCM-20210713-PCB	21G0696-03	Product/Solid	North Face @ building	SW-846 8082A	
D04-RCM-20210713-PCB	21G0696-04	Soil	East Face @ building	SM 2540G	
				SW-846 8082A	
D05-RCM-20210713-PCB	21G0696-05	Soil	North @ building (Cafe)	SM 2540G	
				SW-846 8082A	
D06-RCM-20210713-PCB	21G0696-06	Soil	North @ building (Cafe)	SM 2540G	
				SW-846 8082A	
D07-RCM-20210713-PCB	21G0696-07	Product/Solid	South @ dripline	SW-846 8082A	
110-RCM-20210713-PCB	21G0696-08	Product/Solid	East Crawl	SW-846 8082A	
120-RCM-20210713-PCB	21G0696-09	Product/Solid		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:

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

21G0696-07[D07-RCM-20210713-PCB]

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.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

21G0696-08[110-RCM-20210713-PCB]

Decachlorobiphenyl [2C]

21G0696-08[110-RCM-20210713-PCB]

Tetrachloro-m-xylene

21G0696-08[110-RCM-20210713-PCB]

Tetrachloro-m-xylene [2C]

21G0696-08[110-RCM-20210713-PCB]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: South Face o/s door 9 dipline

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D01-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1260 [1]	0.81	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 15:48	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.5	30-150					7/16/21 15:48	
Decachlorobiphenyl [2]		118	30-150					7/16/21 15:48	
Tetrachloro-m-xylene [1]		95.4	30-150					7/16/21 15:48	
Tetrachloro-m-xylene [2]		93.8	30-150					7/16/21 15:48	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: West Face @ building face

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D02-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1260 [1]	0.24	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:25	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		67.0	30-150					7/16/21 11:25	
Decachlorobiphenyl [2]		58.3	30-150					7/16/21 11:25	
Tetrachloro-m-xylene [1]		72.1	30-150					7/16/21 11:25	
Tetrachloro-m-xylene [2]		63.2	30-150					7/16/21 11:25	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: West Face @ building face

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D02-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	65.0		% Wt	1		SM 2540G	7/15/21	7/15/21 12:38	DRL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: North Face @ building

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D03-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1260 [1]	0.77	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:06	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.4	30-150					7/16/21 16:06	
Decachlorobiphenyl [2]		88.2	30-150					7/16/21 16:06	
Tetrachloro-m-xylene [1]		93.1	30-150					7/16/21 16:06	
Tetrachloro-m-xylene [2]		91.8	30-150					7/16/21 16:06	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: East Face @ building

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D04-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 11:43	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		66.5	30-150					7/16/21 11:43	
Decachlorobiphenyl [2]		57.9	30-150					7/16/21 11:43	
Tetrachloro-m-xylene [1]		69.8	30-150					7/16/21 11:43	
Tetrachloro-m-xylene [2]		61.0	30-150					7/16/21 11:43	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: East Face @ building

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D04-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.0		% Wt	1		SM 2540G	7/15/21	7/15/21 12:39	DRL

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: North @ building (Cafe)

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D05-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1260 [1]	1.6	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:00	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.7	30-150					7/16/21 12:00	
Decachlorobiphenyl [2]		76.4	30-150					7/16/21 12:00	
Tetrachloro-m-xylene [1]		76.6	30-150					7/16/21 12:00	
Tetrachloro-m-xylene [2]		69.7	30-150					7/16/21 12:00	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: North @ building (Cafe)

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D05-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	7/15/21	7/15/21 12:39	DRL

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: North @ building (Cafe)

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D06-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1260 [1]	0.45	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	7/14/21	7/16/21 12:18	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.6	30-150					7/16/21 12:18	
Decachlorobiphenyl [2]		74.1	30-150					7/16/21 12:18	
Tetrachloro-m-xylene [1]		88.3	30-150					7/16/21 12:18	
Tetrachloro-m-xylene [2]		77.2	30-150					7/16/21 12:18	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: North @ building (Cafe)

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D06-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	7/15/21	7/15/21 12:39	DRL

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: South @ dripline

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: D07-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	7/14/21	7/16/21 16:23	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.1	30-150					7/16/21 16:23	
Decachlorobiphenyl [2]		82.1	30-150					7/16/21 16:23	
Tetrachloro-m-xylene [1]		88.0	30-150					7/16/21 16:23	
Tetrachloro-m-xylene [2]		86.5	30-150					7/16/21 16:23	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description: East Crawl

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: 110-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1221 [1]	ND	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1232 [1]	ND	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1242 [1]	ND	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1248 [1]	65	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1254 [1]	70	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1260 [1]	ND	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1262 [1]	ND	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Aroclor-1268 [1]	ND	9.9	mg/Kg	100		SW-846 8082A	7/14/21	7/16/21 16:41	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			7/16/21 16:41	
Decachlorobiphenyl [2]		*	30-150		S-01			7/16/21 16:41	
Tetrachloro-m-xylene [1]		*	30-150		S-01			7/16/21 16:41	
Tetrachloro-m-xylene [2]		*	30-150		S-01			7/16/21 16:41	

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Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G0696

Date Received: 7/14/2021

Field Sample #: 120-RCM-20210713-PCB

Sampled: 7/13/2021 00:00

Sample ID: 21G0696-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1254 [1]	3.4	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1260 [1]	4.0	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	7/14/21	7/16/21 11:05	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.5	30-150					7/16/21 11:05	
Decachlorobiphenyl [2]		80.4	30-150					7/16/21 11:05	
Tetrachloro-m-xylene [1]		89.6	30-150					7/16/21 11:05	
Tetrachloro-m-xylene [2]		88.1	30-150					7/16/21 11:05	

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Sample Extraction Data

Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G0696-02 [D02-RCM-20210713-PCB]	B286012	07/15/21
21G0696-04 [D04-RCM-20210713-PCB]	B286012	07/15/21
21G0696-05 [D05-RCM-20210713-PCB]	B286012	07/15/21
21G0696-06 [D06-RCM-20210713-PCB]	B286012	07/15/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0696-09 [120-RCM-20210713-PCB]	B285911	1.39	7.00	07/14/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0696-01 [D01-RCM-20210713-PCB]	B285995	2.03	10.0	07/14/21
21G0696-03 [D03-RCM-20210713-PCB]	B285995	2.06	10.0	07/14/21
21G0696-07 [D07-RCM-20210713-PCB]	B285995	2.02	10.0	07/14/21
21G0696-08 [110-RCM-20210713-PCB]	B285995	2.03	10.0	07/14/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0696-02 [D02-RCM-20210713-PCB]	B286000	10.0	10.0	07/14/21
21G0696-04 [D04-RCM-20210713-PCB]	B286000	10.0	10.0	07/14/21
21G0696-05 [D05-RCM-20210713-PCB]	B286000	10.0	10.0	07/14/21
21G0696-06 [D06-RCM-20210713-PCB]	B286000	10.0	10.0	07/14/21

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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
Batch B285911 - SW-846 3540C										
Blank (B285911-BLK1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	ND	0.099	mg/Kg							
Aroclor-1016 [2C]	ND	0.099	mg/Kg							
Aroclor-1221	ND	0.099	mg/Kg							
Aroclor-1221 [2C]	ND	0.099	mg/Kg							
Aroclor-1232	ND	0.099	mg/Kg							
Aroclor-1232 [2C]	ND	0.099	mg/Kg							
Aroclor-1242	ND	0.099	mg/Kg							
Aroclor-1242 [2C]	ND	0.099	mg/Kg							
Aroclor-1248	ND	0.099	mg/Kg							
Aroclor-1248 [2C]	ND	0.099	mg/Kg							
Aroclor-1254	ND	0.099	mg/Kg							
Aroclor-1254 [2C]	ND	0.099	mg/Kg							
Aroclor-1260	ND	0.099	mg/Kg							
Aroclor-1260 [2C]	ND	0.099	mg/Kg							
Aroclor-1262	ND	0.099	mg/Kg							
Aroclor-1262 [2C]	ND	0.099	mg/Kg							
Aroclor-1268	ND	0.099	mg/Kg							
Aroclor-1268 [2C]	ND	0.099	mg/Kg							
Surrogate: Decachlorobiphenyl	0.873		mg/Kg	0.985		88.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.809		mg/Kg	0.985		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.879		mg/Kg	0.985		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.875		mg/Kg	0.985		88.9	30-150			
LCS (B285911-BS1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.85	0.098	mg/Kg	0.976		86.7	40-140			
Aroclor-1016 [2C]	0.82	0.098	mg/Kg	0.976		83.7	40-140			
Aroclor-1260	0.76	0.098	mg/Kg	0.976		77.4	40-140			
Aroclor-1260 [2C]	0.70	0.098	mg/Kg	0.976		72.2	40-140			
Surrogate: Decachlorobiphenyl	0.896		mg/Kg	0.976		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.838		mg/Kg	0.976		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.897		mg/Kg	0.976		91.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.868		mg/Kg	0.976		89.0	30-150			
LCS Dup (B285911-BSD1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.87	0.097	mg/Kg	0.971		89.9	40-140	3.14	30	
Aroclor-1016 [2C]	0.84	0.097	mg/Kg	0.971		86.9	40-140	3.27	30	
Aroclor-1260	0.79	0.097	mg/Kg	0.971		81.5	40-140	4.60	30	
Aroclor-1260 [2C]	0.73	0.097	mg/Kg	0.971		74.8	40-140	3.01	30	
Surrogate: Decachlorobiphenyl	0.900		mg/Kg	0.971		92.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.840		mg/Kg	0.971		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.920		mg/Kg	0.971		94.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.889		mg/Kg	0.971		91.5	30-150			

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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
Batch B285995 - SW-846 3540C										
Blank (B285995-BLK1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	ND	0.092	mg/Kg							
Aroclor-1016 [2C]	ND	0.092	mg/Kg							
Aroclor-1221	ND	0.092	mg/Kg							
Aroclor-1221 [2C]	ND	0.092	mg/Kg							
Aroclor-1232	ND	0.092	mg/Kg							
Aroclor-1232 [2C]	ND	0.092	mg/Kg							
Aroclor-1242	ND	0.092	mg/Kg							
Aroclor-1242 [2C]	ND	0.092	mg/Kg							
Aroclor-1248	ND	0.092	mg/Kg							
Aroclor-1248 [2C]	ND	0.092	mg/Kg							
Aroclor-1254	ND	0.092	mg/Kg							
Aroclor-1254 [2C]	ND	0.092	mg/Kg							
Aroclor-1260	ND	0.092	mg/Kg							
Aroclor-1260 [2C]	ND	0.092	mg/Kg							
Aroclor-1262	ND	0.092	mg/Kg							
Aroclor-1262 [2C]	ND	0.092	mg/Kg							
Aroclor-1268	ND	0.092	mg/Kg							
Aroclor-1268 [2C]	ND	0.092	mg/Kg							
Surrogate: Decachlorobiphenyl	0.953		mg/Kg	0.922		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.886		mg/Kg	0.922		96.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.885		mg/Kg	0.922		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.861		mg/Kg	0.922		93.4	30-150			
LCS (B285995-BS1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.88	0.099	mg/Kg	0.985		88.9	40-140			
Aroclor-1016 [2C]	0.84	0.099	mg/Kg	0.985		85.3	40-140			
Aroclor-1260	0.86	0.099	mg/Kg	0.985		87.5	40-140			
Aroclor-1260 [2C]	0.78	0.099	mg/Kg	0.985		79.6	40-140			
Surrogate: Decachlorobiphenyl	0.999		mg/Kg	0.985		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.929		mg/Kg	0.985		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.935		mg/Kg	0.985		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.909		mg/Kg	0.985		92.2	30-150			
LCS Dup (B285995-BSD1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.87	0.098	mg/Kg	0.980		89.2	40-140	0.0742	30	
Aroclor-1016 [2C]	0.85	0.098	mg/Kg	0.980		86.9	40-140	1.32	30	
Aroclor-1260	0.89	0.098	mg/Kg	0.980		90.3	40-140	2.66	30	
Aroclor-1260 [2C]	0.80	0.098	mg/Kg	0.980		81.8	40-140	2.25	30	
Surrogate: Decachlorobiphenyl	1.02		mg/Kg	0.980		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.950		mg/Kg	0.980		96.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.876		mg/Kg	0.980		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.853		mg/Kg	0.980		87.1	30-150			

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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
Batch B286000 - SW-846 3540C										
Blank (B286000-BLK1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.157		mg/Kg wet	0.200		78.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg wet	0.200		72.3	30-150			
LCS (B286000-BS1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.4	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.8	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		67.6	40-140			
Surrogate: Decachlorobiphenyl	0.186		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.161		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.2	30-150			
LCS Dup (B286000-BSD1)										
Prepared: 07/14/21 Analyzed: 07/16/21										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.7	40-140	8.14	30	
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		68.5	40-140	8.75	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		71.6	40-140	8.85	30	
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.0	40-140	8.62	30	
Surrogate: Decachlorobiphenyl	0.172		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.148		mg/Kg wet	0.200		74.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		80.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.3	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D01-RCM-20210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0696-01 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.81	
	2	0.000	0.000	0.000	0.73	10.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D02-RCM-20210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0696-02 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.21	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D03-RCM-20210713-PCB
SW-846 8082A

 Lab Sample ID: 21G0696-03 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.70	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05-RCM-20210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0696-05 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	1.4	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D06-RCM-20210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0696-06 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.45	
	2	0.000	-0.030	0.030	0.40	11.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

110-RCM-20210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0696-08 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	65	
	2	0.000	0.000	0.000	57	13.1
Aroclor-1254	1	0.000	0.000	0.000	70	
	2	0.000	0.000	0.000	57	20.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

120-RCM-20210713-PCB

SW-846 8082A

 Lab Sample ID: 21G0696-09 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	3.4	
	2	0.000	0.000	0.000	2.8	19.4
Aroclor-1260	1	0.000	0.000	0.000	4.0	
	2	0.000	0.000	0.000	3.6	10.5

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B285911-BS1 Date(s) Analyzed: 07/16/2021 07/16/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.82	3.6
Aroclor-1260	1	0.000	0.000	0.000	0.76	
	2	0.000	0.000	0.000	0.70	8.2



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B285911-BSD1 Date(s) Analyzed: 07/16/2021 07/16/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.87	
	2	0.000	0.000	0.000	0.84	3.5
Aroclor-1260	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.73	7.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B285995-BS1 Date(s) Analyzed: 07/16/2021 07/16/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.84	4.7
Aroclor-1260	1	0.000	0.000	0.000	0.86	
	2	0.000	0.000	0.000	0.78	9.8



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B285995-BSD1 Date(s) Analyzed: 07/16/2021 07/16/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.87	
	2	0.000	0.000	0.000	0.85	3.5
Aroclor-1260	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	0.80	10.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B286000-BS1 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	12.5
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8082A

 Lab Sample ID: B286000-BSD1 Date(s) Analyzed: 07/16/2021 07/16/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.12	15.4

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-32	A dilution was performed as part of the standard analytical procedure.
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,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



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PCB Bulk Sample Chain-of-Custody Form

Sheet ___ of ___

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717_A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Substrate(s)	Conc. Code (Below)
1 D01-12M-20160713-003	Paver b/n window	South Face of Door 920114	---	---
2 D02	Soil b/n window	West Face @ Building Face	-	-
3 D03	Paver @ B/n window	North Face @ Building	-	-
4 D04	Soil b/n window	East Face @ Building	-	-
5 D05	Soil b/n window	North @ Bldg (Cafe)	-	-
6 D06	↓	↓	-	-
7 D07	Paver b/n window	South @ Dr.p.l.n.e.	-	-
8 I10	Olive Insulation Cube	East Crawl	-	-
9 I20	Black Waterproofing	North Face	-	-

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Contest Turnaround Time: Standard - 2 wk
(48-Hour is Fastest)

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: Rob Mallett Date: 7/13/21 Time: 14:07

Relinquished [By][To] | Rob Mallett | Fro Forge | Date: 7/13/21 Time: 11:22

Relinquished [By][To] | Rob Mallett | Rob Mallett | Date: 7/14/21 Time: 18:00

Relinquished [By][To] | Rob Mallett | Rob Mallett | Date: 7/14/21 Time: 18:00

Q:\EnviroScience\Admin\FORMS\PCBs\July 2014 Revised COC Forms

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 - Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Fuss & O'Neill
 Received By RLF Date 7/14/21 Time 1800
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 3.6°C
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? Jackie
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? NA MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? _____ Acid NA Base NA

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

July 26, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: Cambridge, MA
Client Job Number:
Project Number: 20160717.A30
Laboratory Work Order Number: 21G1140

Enclosed are results of analyses for samples received by the laboratory on July 21, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 7/26/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G1140

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
101A1-RCM-210720-PCB	21G1140-01	Product/Solid	cmu-interior expansion joint	SW-846 8082A	
101A2-RCM-210720-PCB	21G1140-02	Product/Solid	cmu-interior expansion joint	SW-846 8082A	
101A3-RCM-210720-PCB	21G1140-03	Product/Solid	cmu-interior expansion joint	SW-846 8082A	
200A-SMD-210720-PCB	21G1140-04	Product/Solid	cmu-exterior window caulking	SW-846 8082A	
200B-SMD-210720-PCB	21G1140-05	Product/Solid	cmu-exterior window caulking	SW-846 8082A	
201A-SMD-210720-PCB	21G1140-06	Product/Solid	cmu-exterior window caulking	SW-846 8082A	
201B-SMD-210720-PCB	21G1140-07	Product/Solid	cmu-exterior window caulking	SW-846 8082A	
202-SMD-210720-PCB	21G1140-08	Product/Solid	conc paver	SW-846 8082A	
203A-SMD-210720-PCB	21G1140-09	Product/Solid	cmu-exterior expansion joint	SW-846 8082A	
204A-SMD-210720-PCB	21G1140-10	Product/Solid	conc expansion joint	SW-846 8082A	
300-RCM-20210720-PCB	21G1140-11	Caulk	gray joint caulking	SW-846 8082A	
301-RCM-20210720-PCB	21G1140-12	Caulk	gray/tan exterior joint caulking	SW-846 8082A	
302-RCM-20210720-PCB	21G1140-13	Caulk	black exterior window caulking	SW-846 8082A	
303-RCM-20210720-PCB	21G1140-14	Caulk	black window caulking	SW-846 8082A	
304-RCM-20210720-PCB	21G1140-15	Caulk	black window caulking	SW-846 8082A	
305-RCM-20210720-PCB	21G1140-16	Caulk	black window caulking	SW-846 8082A	
BD05-RCM-20210720-PCB	21G1140-17	Soil	soil	SM 2540G	
				SW-846 8082A	
D05A-RCM-20210720-PCB	21G1140-18	Soil	soil	SM 2540G	
				SW-846 8082A	
DO5B-RCM-20210720-PCB	21G1140-19	Soil	soil	SM 2540G	
				SW-846 8082A	
D05 1-RCM-20210720-PCB	21G1140-20	Soil	soil	SM 2540G	
				SW-846 8082A	
DO5 B1-RCM-20210720-PCB	21G1140-21	Soil	soil	SM 2540G	
				SW-846 8082A	
DO5 A1-RCM-20210720-PCB	21G1140-22	Soil	soil	SM 2540G	
				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:

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.

Analyte & Samples(s) Qualified:

Aroclor-1016

21G1140-16[305-RCM-20210720-PCB]

Decachlorobiphenyl

21G1140-13[302-RCM-20210720-PCB], 21G1140-14[303-RCM-20210720-PCB], 21G1140-15[304-RCM-20210720-PCB]

Decachlorobiphenyl [2C]

21G1140-13[302-RCM-20210720-PCB], 21G1140-14[303-RCM-20210720-PCB], 21G1140-15[304-RCM-20210720-PCB]

Tetrachloro-m-xylene

21G1140-13[302-RCM-20210720-PCB], 21G1140-14[303-RCM-20210720-PCB], 21G1140-15[304-RCM-20210720-PCB]

Tetrachloro-m-xylene [2C]

21G1140-13[302-RCM-20210720-PCB], 21G1140-14[303-RCM-20210720-PCB], 21G1140-15[304-RCM-20210720-PCB]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: cmu-interior expansion joint

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 101A1-RCM-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1260 [2]	0.12	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 21:59	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.2	30-150					7/23/21 21:59	
Decachlorobiphenyl [2]		72.2	30-150					7/23/21 21:59	
Tetrachloro-m-xylene [1]		76.8	30-150					7/23/21 21:59	
Tetrachloro-m-xylene [2]		79.3	30-150					7/23/21 21:59	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: cmu-interior expansion joint

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 101A2-RCM-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:17	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.8	30-150					7/23/21 22:17	
Decachlorobiphenyl [2]		81.2	30-150					7/23/21 22:17	
Tetrachloro-m-xylene [1]		84.5	30-150					7/23/21 22:17	
Tetrachloro-m-xylene [2]		86.5	30-150					7/23/21 22:17	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: cmu-interior expansion joint

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 101A3-RCM-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1260 [1]	0.32	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:34	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.4	30-150					7/23/21 22:34	
Decachlorobiphenyl [2]		71.0	30-150					7/23/21 22:34	
Tetrachloro-m-xylene [1]		80.3	30-150					7/23/21 22:34	
Tetrachloro-m-xylene [2]		82.8	30-150					7/23/21 22:34	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: cmu-exterior window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 200A-SMD-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1260 [1]	0.32	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 22:52	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.2	30-150					7/23/21 22:52	
Decachlorobiphenyl [2]		71.9	30-150					7/23/21 22:52	
Tetrachloro-m-xylene [1]		81.3	30-150					7/23/21 22:52	
Tetrachloro-m-xylene [2]		83.7	30-150					7/23/21 22:52	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: cmu-exterior window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 200B-SMD-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1260 [2]	0.11	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:10	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.8	30-150					7/23/21 23:10	
Decachlorobiphenyl [2]		74.1	30-150					7/23/21 23:10	
Tetrachloro-m-xylene [1]		82.2	30-150					7/23/21 23:10	
Tetrachloro-m-xylene [2]		84.6	30-150					7/23/21 23:10	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: cmu-exterior window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 201A-SMD-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1260 [2]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:27	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.8	30-150					7/23/21 23:27	
Decachlorobiphenyl [2]		73.1	30-150					7/23/21 23:27	
Tetrachloro-m-xylene [1]		82.6	30-150					7/23/21 23:27	
Tetrachloro-m-xylene [2]		85.1	30-150					7/23/21 23:27	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: cmu-exterior window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 201B-SMD-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/23/21 23:45	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.3	30-150					7/23/21 23:45	
Decachlorobiphenyl [2]		87.2	30-150					7/23/21 23:45	
Tetrachloro-m-xylene [1]		90.7	30-150					7/23/21 23:45	
Tetrachloro-m-xylene [2]		93.2	30-150					7/23/21 23:45	

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Project Location: Cambridge, MA

Sample Description: conc paver

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 202-SMD-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1260 [1]	0.24	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:03	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.7	30-150					7/24/21 0:03	
Decachlorobiphenyl [2]		91.8	30-150					7/24/21 0:03	
Tetrachloro-m-xylene [1]		81.2	30-150					7/24/21 0:03	
Tetrachloro-m-xylene [2]		83.9	30-150					7/24/21 0:03	

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Project Location: Cambridge, MA

Sample Description: cmu-exterior expansion joint

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 203A-SMD-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:21	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.4	30-150					7/24/21 0:21	
Decachlorobiphenyl [2]		78.3	30-150					7/24/21 0:21	
Tetrachloro-m-xylene [1]		91.2	30-150					7/24/21 0:21	
Tetrachloro-m-xylene [2]		93.1	30-150					7/24/21 0:21	

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Project Location: Cambridge, MA

Sample Description: conc expansion joint

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 204A-SMD-210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1254 [1]	0.12	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1260 [2]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/21/21	7/24/21 0:38	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.3	30-150					7/24/21 0:38	
Decachlorobiphenyl [2]		79.0	30-150					7/24/21 0:38	
Tetrachloro-m-xylene [1]		85.0	30-150					7/24/21 0:38	
Tetrachloro-m-xylene [2]		87.2	30-150					7/24/21 0:38	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: gray joint caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 300-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-11

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1221 [1]	ND	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1232 [1]	ND	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1242 [1]	8.6	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1248 [1]	ND	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1254 [2]	4.2	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1260 [2]	6.5	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1262 [1]	ND	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Aroclor-1268 [1]	ND	0.70	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:39	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.2	30-150					7/24/21 2:39	
Decachlorobiphenyl [2]		68.6	30-150					7/24/21 2:39	
Tetrachloro-m-xylene [1]		61.0	30-150					7/24/21 2:39	
Tetrachloro-m-xylene [2]		63.2	30-150					7/24/21 2:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: gray/tan exterior joint caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 301-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-12

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1221 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1232 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1242 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1248 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1254 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1260 [2]	3.1	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1262 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Aroclor-1268 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	7/21/21	7/24/21 2:57	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		40.2	30-150					7/24/21 2:57	
Decachlorobiphenyl [2]		35.9	30-150					7/24/21 2:57	
Tetrachloro-m-xylene [1]		33.7	30-150					7/24/21 2:57	
Tetrachloro-m-xylene [2]		35.1	30-150					7/24/21 2:57	

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Project Location: Cambridge, MA

Sample Description: black exterior window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 302-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-13

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1221 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1232 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1242 [1]	18	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1248 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1254 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1260 [1]	25	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1262 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Aroclor-1268 [1]	ND	9.6	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:15	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			7/24/21 3:15	
Decachlorobiphenyl [2]		*	30-150		S-01			7/24/21 3:15	
Tetrachloro-m-xylene [1]		*	30-150		S-01			7/24/21 3:15	
Tetrachloro-m-xylene [2]		*	30-150		S-01			7/24/21 3:15	

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Project Location: Cambridge, MA

Sample Description: black window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 303-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-14

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1221 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1232 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1242 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1248 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1254 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1260 [1]	29	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1262 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Aroclor-1268 [1]	ND	8.4	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:32	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			7/24/21 3:32	
Decachlorobiphenyl [2]		*	30-150		S-01			7/24/21 3:32	
Tetrachloro-m-xylene [1]		*	30-150		S-01			7/24/21 3:32	
Tetrachloro-m-xylene [2]		*	30-150		S-01			7/24/21 3:32	

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Project Location: Cambridge, MA

Sample Description: black window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 304-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-15

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1221 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1232 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1242 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1248 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1254 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1260 [2]	49	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1262 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Aroclor-1268 [1]	ND	8.9	mg/Kg	50		SW-846 8082A	7/21/21	7/24/21 3:50	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			7/24/21 3:50	
Decachlorobiphenyl [2]		*	30-150		S-01			7/24/21 3:50	
Tetrachloro-m-xylene [1]		*	30-150		S-01			7/24/21 3:50	
Tetrachloro-m-xylene [2]		*	30-150		S-01			7/24/21 3:50	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: black window caulking

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: 305-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-16

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3.8	mg/Kg	20	S-01	SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1221 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1232 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1242 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1248 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1254 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1260 [2]	5.5	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1262 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Aroclor-1268 [1]	ND	3.8	mg/Kg	20		SW-846 8082A	7/21/21	7/24/21 4:08	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		56.1	30-150					7/24/21 4:08	
Decachlorobiphenyl [2]		56.1	30-150					7/24/21 4:08	
Tetrachloro-m-xylene [1]		53.9	30-150					7/24/21 4:08	
Tetrachloro-m-xylene [2]		56.1	30-150					7/24/21 4:08	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

 Field Sample #: **BD05-RCM-20210720-PCB**

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1260 [1]	1.5	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:03	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.7	30-150					7/23/21 13:03	
Decachlorobiphenyl [2]		90.0	30-150					7/23/21 13:03	
Tetrachloro-m-xylene [1]		78.1	30-150					7/23/21 13:03	
Tetrachloro-m-xylene [2]		85.1	30-150					7/23/21 13:03	

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: **BD05-RCM-20210720-PCB**

Sampled: 7/20/2021 00:00

Sample ID: **21G1140-17**

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	7/22/21	7/22/21 13:02	DRL

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: D05A-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1260 [2]	1.9	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:15	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.5	30-150					7/23/21 13:15	
Decachlorobiphenyl [2]		94.9	30-150					7/23/21 13:15	
Tetrachloro-m-xylene [1]		90.5	30-150					7/23/21 13:15	
Tetrachloro-m-xylene [2]		100	30-150					7/23/21 13:15	

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: D05A-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	7/22/21	7/22/21 13:02	DRL

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: DO5B-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1260 [2]	2.0	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:28	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.3	30-150					7/23/21 13:28	
Decachlorobiphenyl [2]		90.6	30-150					7/23/21 13:28	
Tetrachloro-m-xylene [1]		83.6	30-150					7/23/21 13:28	
Tetrachloro-m-xylene [2]		91.2	30-150					7/23/21 13:28	

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: DO5B-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.6		% Wt	1		SM 2540G	7/22/21	7/22/21 13:02	DRL

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: D05 1-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1260 [2]	1.0	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:40	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		63.6	30-150					7/23/21 13:40	
Decachlorobiphenyl [2]		68.9	30-150					7/23/21 13:40	
Tetrachloro-m-xylene [1]		68.1	30-150					7/23/21 13:40	
Tetrachloro-m-xylene [2]		75.2	30-150					7/23/21 13:40	

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: D05 1-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.4		% Wt	1		SM 2540G	7/22/21	7/22/21 13:02	DRL

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: DO5 B1-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-21

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1260 [2]	0.96	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 13:58	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.7	30-150					7/23/21 13:58	
Decachlorobiphenyl [2]		82.1	30-150					7/23/21 13:58	
Tetrachloro-m-xylene [1]		85.0	30-150					7/23/21 13:58	
Tetrachloro-m-xylene [2]		93.6	30-150					7/23/21 13:58	

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: DO5 B1-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-21

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.8		% Wt	1		SM 2540G	7/22/21	7/22/21 13:02	DRL

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: DO5 A1-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-22

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1260 [2]	0.49	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/21/21	7/23/21 14:15	SFM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.8	30-150					7/23/21 14:15	
Decachlorobiphenyl [2]		91.7	30-150					7/23/21 14:15	
Tetrachloro-m-xylene [1]		89.4	30-150					7/23/21 14:15	
Tetrachloro-m-xylene [2]		97.7	30-150					7/23/21 14:15	

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Project Location: Cambridge, MA

Sample Description: soil

Work Order: 21G1140

Date Received: 7/21/2021

Field Sample #: DO5 A1-RCM-20210720-PCB

Sampled: 7/20/2021 00:00

Sample ID: 21G1140-22

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.4		% Wt	1		SM 2540G	7/22/21	7/22/21 13:02	DRL

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Sample Extraction Data
Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G1140-17 [BD05-RCM-20210720-PCB]	B286459	07/22/21
21G1140-18 [D05A-RCM-20210720-PCB]	B286459	07/22/21
21G1140-19 [DO5B-RCM-20210720-PCB]	B286459	07/22/21
21G1140-20 [D05 1-RCM-20210720-PCB]	B286459	07/22/21
21G1140-21 [DO5 B1-RCM-20210720-PCB]	B286459	07/22/21
21G1140-22 [DO5 A1-RCM-20210720-PCB]	B286459	07/22/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G1140-11 [300-RCM-20210720-PCB]	B286501	0.571	10.0	07/21/21
21G1140-12 [301-RCM-20210720-PCB]	B286501	0.528	10.0	07/21/21
21G1140-13 [302-RCM-20210720-PCB]	B286501	0.522	10.0	07/21/21
21G1140-14 [303-RCM-20210720-PCB]	B286501	0.594	10.0	07/21/21
21G1140-15 [304-RCM-20210720-PCB]	B286501	0.562	10.0	07/21/21
21G1140-16 [305-RCM-20210720-PCB]	B286501	0.524	10.0	07/21/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G1140-01 [101A1-RCM-210720-PCB]	B286500	2.04	10.0	07/21/21
21G1140-02 [101A2-RCM-210720-PCB]	B286500	2.07	10.0	07/21/21
21G1140-03 [101A3-RCM-210720-PCB]	B286500	2.03	10.0	07/21/21
21G1140-04 [200A-SMD-210720-PCB]	B286500	2.02	10.0	07/21/21
21G1140-05 [200B-SMD-210720-PCB]	B286500	2.03	10.0	07/21/21
21G1140-06 [201A-SMD-210720-PCB]	B286500	2.03	10.0	07/21/21
21G1140-07 [201B-SMD-210720-PCB]	B286500	2.04	10.0	07/21/21
21G1140-08 [202-SMD-210720-PCB]	B286500	2.02	10.0	07/21/21
21G1140-09 [203A-SMD-210720-PCB]	B286500	2.05	10.0	07/21/21
21G1140-10 [204A-SMD-210720-PCB]	B286500	2.05	10.0	07/21/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G1140-17 [BD05-RCM-20210720-PCB]	B286462	10.0	10.0	07/21/21
21G1140-18 [D05A-RCM-20210720-PCB]	B286462	10.0	10.0	07/21/21
21G1140-19 [DO5B-RCM-20210720-PCB]	B286462	10.0	10.0	07/21/21
21G1140-20 [D05 1-RCM-20210720-PCB]	B286462	10.1	10.0	07/21/21
21G1140-21 [DO5 B1-RCM-20210720-PCB]	B286462	10.1	10.0	07/21/21
21G1140-22 [DO5 A1-RCM-20210720-PCB]	B286462	10.0	10.0	07/21/21

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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
Batch B286462 - SW-846 3540C										
Blank (B286462-BLK1)										
Prepared: 07/21/21 Analyzed: 07/23/21										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.139		mg/Kg wet	0.200		69.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.146		mg/Kg wet	0.200		72.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.147		mg/Kg wet	0.200		73.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.160		mg/Kg wet	0.200		80.2	30-150			
LCS (B286462-BS1)										
Prepared: 07/21/21 Analyzed: 07/23/21										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.5	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.1	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.3	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.4	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		96.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.209		mg/Kg wet	0.200		105	30-150			
LCS Dup (B286462-BSD1)										
Prepared: 07/21/21 Analyzed: 07/23/21										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	12.4	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	12.6	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140	11.9	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.0	40-140	12.2	30	
Surrogate: Decachlorobiphenyl	0.173		mg/Kg wet	0.200		86.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.165		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.179		mg/Kg wet	0.200		89.5	30-150			

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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
Batch B286500 - SW-846 3540C										
Blank (B286500-BLK1)										
Prepared: 07/21/21 Analyzed: 07/23/21										
Aroclor-1016	ND	0.099	mg/Kg							
Aroclor-1016 [2C]	ND	0.099	mg/Kg							
Aroclor-1221	ND	0.099	mg/Kg							
Aroclor-1221 [2C]	ND	0.099	mg/Kg							
Aroclor-1232	ND	0.099	mg/Kg							
Aroclor-1232 [2C]	ND	0.099	mg/Kg							
Aroclor-1242	ND	0.099	mg/Kg							
Aroclor-1242 [2C]	ND	0.099	mg/Kg							
Aroclor-1248	ND	0.099	mg/Kg							
Aroclor-1248 [2C]	ND	0.099	mg/Kg							
Aroclor-1254	ND	0.099	mg/Kg							
Aroclor-1254 [2C]	ND	0.099	mg/Kg							
Aroclor-1260	ND	0.099	mg/Kg							
Aroclor-1260 [2C]	ND	0.099	mg/Kg							
Aroclor-1262	ND	0.099	mg/Kg							
Aroclor-1262 [2C]	ND	0.099	mg/Kg							
Aroclor-1268	ND	0.099	mg/Kg							
Aroclor-1268 [2C]	ND	0.099	mg/Kg							
Surrogate: Decachlorobiphenyl	0.803		mg/Kg	0.990		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.777		mg/Kg	0.990		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.806		mg/Kg	0.990		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.842		mg/Kg	0.990		85.0	30-150			
LCS (B286500-BS1)										
Prepared: 07/21/21 Analyzed: 07/23/21										
Aroclor-1016	0.74	0.097	mg/Kg	0.966		76.3	40-140			
Aroclor-1016 [2C]	0.75	0.097	mg/Kg	0.966		77.6	40-140			
Aroclor-1260	0.64	0.097	mg/Kg	0.966		66.2	40-140			
Aroclor-1260 [2C]	0.64	0.097	mg/Kg	0.966		65.9	40-140			
Surrogate: Decachlorobiphenyl	0.729		mg/Kg	0.966		75.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.708		mg/Kg	0.966		73.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.746		mg/Kg	0.966		77.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.777		mg/Kg	0.966		80.4	30-150			
LCS Dup (B286500-BSD1)										
Prepared: 07/21/21 Analyzed: 07/23/21										
Aroclor-1016	0.71	0.097	mg/Kg	0.966		73.5	40-140	3.69	30	
Aroclor-1016 [2C]	0.73	0.097	mg/Kg	0.966		75.3	40-140	3.00	30	
Aroclor-1260	0.62	0.097	mg/Kg	0.966		64.4	40-140	2.71	30	
Aroclor-1260 [2C]	0.62	0.097	mg/Kg	0.966		64.1	40-140	2.78	30	
Surrogate: Decachlorobiphenyl	0.736		mg/Kg	0.966		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.717		mg/Kg	0.966		74.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.722		mg/Kg	0.966		74.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.754		mg/Kg	0.966		78.0	30-150			

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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
Batch B286501 - SW-846 3540C										
Blank (B286501-BLK1)										
Prepared: 07/21/21 Analyzed: 07/24/21										
Aroclor-1016	ND	0.18	mg/Kg							
Aroclor-1016 [2C]	ND	0.18	mg/Kg							
Aroclor-1221	ND	0.18	mg/Kg							
Aroclor-1221 [2C]	ND	0.18	mg/Kg							
Aroclor-1232	ND	0.18	mg/Kg							
Aroclor-1232 [2C]	ND	0.18	mg/Kg							
Aroclor-1242	ND	0.18	mg/Kg							
Aroclor-1242 [2C]	ND	0.18	mg/Kg							
Aroclor-1248	ND	0.18	mg/Kg							
Aroclor-1248 [2C]	ND	0.18	mg/Kg							
Aroclor-1254	ND	0.18	mg/Kg							
Aroclor-1254 [2C]	ND	0.18	mg/Kg							
Aroclor-1260	ND	0.18	mg/Kg							
Aroclor-1260 [2C]	ND	0.18	mg/Kg							
Aroclor-1262	ND	0.18	mg/Kg							
Aroclor-1262 [2C]	ND	0.18	mg/Kg							
Aroclor-1268	ND	0.18	mg/Kg							
Aroclor-1268 [2C]	ND	0.18	mg/Kg							
Surrogate: Decachlorobiphenyl	2.89		mg/Kg	3.63		79.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.83		mg/Kg	3.63		77.9	30-150			
Surrogate: Tetrachloro-m-xylene	2.77		mg/Kg	3.63		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.86		mg/Kg	3.63		78.7	30-150			
LCS (B286501-BS1)										
Prepared: 07/21/21 Analyzed: 07/24/21										
Aroclor-1016	2.8	0.19	mg/Kg	3.75		73.4	40-140			
Aroclor-1016 [2C]	2.8	0.19	mg/Kg	3.75		74.6	40-140			
Aroclor-1260	2.5	0.19	mg/Kg	3.75		67.2	40-140			
Aroclor-1260 [2C]	2.5	0.19	mg/Kg	3.75		66.9	40-140			
Surrogate: Decachlorobiphenyl	2.82		mg/Kg	3.75		75.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.77		mg/Kg	3.75		73.8	30-150			
Surrogate: Tetrachloro-m-xylene	2.91		mg/Kg	3.75		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.99		mg/Kg	3.75		79.6	30-150			
LCS Dup (B286501-BSD1)										
Prepared: 07/21/21 Analyzed: 07/24/21										
Aroclor-1016	3.0	0.20	mg/Kg	3.92		76.0	40-140	7.84	30	
Aroclor-1016 [2C]	2.9	0.20	mg/Kg	3.92		74.4	40-140	4.18	30	
Aroclor-1260	2.6	0.20	mg/Kg	3.92		66.0	40-140	2.55	30	
Aroclor-1260 [2C]	2.6	0.20	mg/Kg	3.92		65.7	40-140	2.64	30	
Surrogate: Decachlorobiphenyl	2.84		mg/Kg	3.92		72.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.78		mg/Kg	3.92		70.9	30-150			
Surrogate: Tetrachloro-m-xylene	2.99		mg/Kg	3.92		76.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.07		mg/Kg	3.92		78.3	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

101A1-RCM-210720-PCB

SW-846 8082A

 Lab Sample ID: 21G1140-01 Date(s) Analyzed: 07/23/2021 07/23/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.12	8.7

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

101A3-RCM-210720-PCB

SW-846 8082A

 Lab Sample ID: 21G1140-03 Date(s) Analyzed: 07/23/2021 07/23/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.32	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

200A-SMD-210720-PCB

SW-846 8082A

 Lab Sample ID: 21G1140-04 Date(s) Analyzed: 07/23/2021 07/23/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.31	3.2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

200B-SMD-210720-PCB

SW-846 8082A

 Lab Sample ID: 21G1140-05 Date(s) Analyzed: 07/23/2021 07/23/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.11	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

202-SMD-210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-08 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	0.24	
	2	0.000	0.000	0.000	0.23	4.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

204A-SMD-210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-10 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

300-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-11 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	8.6	
	2	0.000	0.000	0.000	7.9	8.5
Aroclor-1254	1	0.000	0.000	0.000	3.6	
	2	0.000	0.000	0.000	4.2	15.4
Aroclor-1260	1	0.000	0.000	0.000	6.4	
	2	0.000	0.000	0.000	6.5	1.6

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

301-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-12 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	3.1	3.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

302-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-13 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1242	1	0.000	0.000	0.000	18	
	2	0.000	0.000	0.000	17	5.7
Aroclor-1260	1	0.000	0.000	0.000	25	
	2	0.000	0.000	0.000	25	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

303-RCM-20210720-PCB

SW-846 8082A

 Lab Sample ID: 21G1140-14 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	29	
	2	0.000	0.000	0.000	29	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

304-RCM-20210720-PCB

SW-846 8082A

 Lab Sample ID: 21G1140-15 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: _____ (mm) GC Column (2): ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	49	
	2	0.000	0.000	0.000	49	2.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

305-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-16 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	5.5	
	2	0.000	0.000	0.000	5.5	0.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

BD05-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-17 Date(s) Analyzed: 07/23/2021 07/23/2021

 Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.5	6.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05A-RCM-20210720-PCB

SW-846 8082A

 Lab Sample ID: 21G1140-18 Date(s) Analyzed: 07/23/2021 07/23/2021

 Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.8	
	2	0.000	-0.030	0.030	1.9	5.4

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DO5B-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-19 Date(s) Analyzed: 07/23/2021 07/23/2021

 Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.9	
	2	0.000	-0.030	0.030	2.0	5.1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05 1-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-20 Date(s) Analyzed: 07/23/2021 07/23/2021

 Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.95	
	2	0.000	-0.030	0.030	1.0	5.1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DO5 B1-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-21 Date(s) Analyzed: 07/23/2021 07/23/2021

 Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.90	
	2	0.000	-0.030	0.030	0.96	6.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DO5 A1-RCM-20210720-PCB
SW-846 8082A

 Lab Sample ID: 21G1140-22 Date(s) Analyzed: 07/23/2021 07/23/2021

 Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.45	
	2	0.000	-0.030	0.030	0.49	8.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B286462-BS1 Date(s) Analyzed: 07/23/2021 07/23/2021

 Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B286462-BSD1 Date(s) Analyzed: 07/23/2021 07/23/2021
 Instrument ID (1): ECD10 Instrument ID (2): ECD10
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B286500-BS1 Date(s) Analyzed: 07/23/2021 07/23/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____ (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	0.75	1.3
Aroclor-1260	1	0.000	0.000	0.000	0.64	
	2	0.000	0.000	0.000	0.64	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8082A

 Lab Sample ID: B286500-BSD1 Date(s) Analyzed: 07/23/2021 07/23/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.71	
	2	0.000	0.000	0.000	0.73	2.8
Aroclor-1260	1	0.000	0.000	0.000	0.62	
	2	0.000	0.000	0.000	0.62	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B286501-BS1 Date(s) Analyzed: 07/24/2021 07/24/2021

Instrument ID (1): _____ Instrument ID (2): _____

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	2.8	
	2	0.000	0.000	0.000	2.8	0.0
Aroclor-1260	1	0.000	0.000	0.000	2.5	
	2	0.000	0.000	0.000	2.5	0.0

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
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.

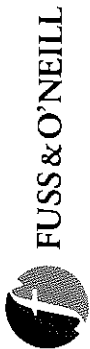
CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



108 Myrtle Street, Suite 502, Quincy, MA 02171

21G1140

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(617) 282-4675

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 43

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717-A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Interval Substrate(s)	Conc. Code (Below)
1 101A1-Rem-210720-105	CMU-Interior Expansion Joint	Airt Room	0"	U
2 101A2-"	CMU-"	"	1"	
3 101A3-"	Conc-"	"	0"	
4 201A-SMD-210720-105	CMU-Exterior Window Caulking	South Elevation	0"	
5 201B-"	CMU-"	"	1"	
6 201A-"	Conc-"	"	0"	
7 201B-"	Conc-"	"	1"	
8 202-"	Conc Paver	↓		
9 203A-"	CMU-Exterior Expansion Joint	North Elevation	0"	
10 204A-"	Conc-"	↓	0"	

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: _____ Contest: _____

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to: RMallett@fando.com

Turnaround Time: 3-DAY RUSH
(48-Hour is Fastest)

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

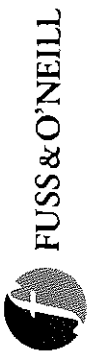
Samples Collected By: RM/SMD Date: 7/20/21

Relinquished [By][To] | [Signature] | FRS/SPROK | Date: 7/20/21 Time: 1524

Relinquished [By][To] | [Signature] | Paul Chatterney | Date: 7/21/21 Time: 1326

Relinquished [By][To] | [Signature] | Paul Chatterney | Date: 7-21-21 Time: 1535

Q:\EnviroScience\Admin\PCB\2014\2014-07-21\210720-105\COG Forms
Sakany Mail 7/21/21 1635
Sakany Mail 7/21/21 1805



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PCB Bulk Sample Chain-of-Custody Form

Sheet 2 of 3

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln., Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717.A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Substrate(s)	Conc. Code (Below)
11 300 - RCN - 4/21/12 - FEB	Grey Joint Caulking	Room 128	conc/cmU	L
12 301	Grey/Teal Exterior Joint Caulking	0/5 Room 214		
13 302	Black Exterior Window Caulking	West Elevation @ Drive Way		
14 303	Black	North Face Play Area		
15 304	↓	South Deck Ply Area		
16 305	↓	Cafeteria window		
17 D05	Soil	6" below D05		
18 D05A	Soil	5' west of D05		
19 D05B	Soil	5' east of D05		
20 D05C	Soil	5' North of D05		

Analysis Method: **EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis)** Laboratory: _____ Contest _____ Turnaround Time: Standard Rush
(48-Hour is Fastest)

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: [Signature] Date: 7/20/12

Relinquished [By][To] | [Signature] | F70 PROBONE | Date: 7/20/12 | Time: 1326

Relinquished [By][To] | [Signature] | Paul Charney | Date: 7/21/12 | Time: 1326

Relinquished [By][To] | [Signature] | Paul Charney | Date: 7-21-12 | Time: 1535

Q:\EnviroScience\Admin\FOB\51\PCBs\July 2012\20120721\201207211635\1805
[Signature] 7/21/12 (1805)
[Signature] 3.16 7/21/12 (1805)

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client F+O
 Received By [Signature] Date 7/21/21 Time 1805
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 3.6
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? na Were Samples Tampered with? na
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? Jackie
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? na MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? _____ Acid na Base na

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

July 30, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: 197 Vassal Ln, Cambridge, MA
Client Job Number:
Project Number: 20160717.A30
Laboratory Work Order Number: 21G1594

Enclosed are results of analyses for samples received by the laboratory on July 28, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 7/30/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G1594

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

PROJECT LOCATION: 197 Vassal Ln, Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D052-SMD-210728-PCB	21G1594-01	Soil		SM 2540G SW-846 8082A	
BBD05-SMD-210728-PCB	21G1594-02	Soil		SM 2540G 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.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1594

Date Received: 7/28/2021

Field Sample #: D052-SMD-210728-PCB

Sampled: 7/28/2021 00:00

Sample ID: 21G1594-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1254 [2]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1260 [1]	0.16	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:11	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.5	30-150					7/30/21 11:11	
Decachlorobiphenyl [2]		74.8	30-150					7/30/21 11:11	
Tetrachloro-m-xylene [1]		82.8	30-150					7/30/21 11:11	
Tetrachloro-m-xylene [2]		77.2	30-150					7/30/21 11:11	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1594

Date Received: 7/28/2021

Field Sample #: D052-SMD-210728-PCB

Sampled: 7/28/2021 00:00

Sample ID: 21G1594-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.6		% Wt	1		SM 2540G	7/28/21	7/29/21 12:03	GLH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1594

Date Received: 7/28/2021

Field Sample #: BBD05-SMD-210728-PCB

Sampled: 7/28/2021 00:00

Sample ID: 21G1594-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1254 [2]	0.30	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1260 [1]	0.61	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:29	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.1	30-150					7/30/21 11:29	
Decachlorobiphenyl [2]		76.2	30-150					7/30/21 11:29	
Tetrachloro-m-xylene [1]		82.4	30-150					7/30/21 11:29	
Tetrachloro-m-xylene [2]		76.7	30-150					7/30/21 11:29	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1594

Date Received: 7/28/2021

 Field Sample #: **BBD05-SMD-210728-PCB**

Sampled: 7/28/2021 00:00

 Sample ID: **21G1594-02**

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	7/28/21	7/29/21 12:04	GLH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data
Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G1594-01 [D052-SMD-210728-PCB]	B286998	07/28/21
21G1594-02 [BBD05-SMD-210728-PCB]	B286998	07/28/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G1594-01 [D052-SMD-210728-PCB]	B286996	10.0	10.0	07/28/21
21G1594-02 [BBD05-SMD-210728-PCB]	B286996	10.0	10.0	07/28/21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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
Batch B286996 - SW-846 3540C										
Blank (B286996-BLK1)										
Prepared: 07/28/21 Analyzed: 07/30/21										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.4	30-150			
LCS (B286996-BS1)										
Prepared: 07/28/21 Analyzed: 07/30/21										
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		76.3	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.4	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.7	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		66.4	40-140			
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			
LCS Dup (B286996-BSD1)										
Prepared: 07/28/21 Analyzed: 07/30/21										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.2	40-140	7.51	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.4	40-140	7.79	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	5.76	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		72.6	40-140	8.91	30	
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		80.8	30-150			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B286998 - % Solids										
Duplicate (B286998-DUP4)	Source: 21G1594-01			Prepared: 07/28/21 Analyzed: 07/29/21						
% Solids	77.6		% Wt		77.6			0.0485	5	
Duplicate (B286998-DUP5)	Source: 21G1594-02			Prepared: 07/28/21 Analyzed: 07/29/21						
% Solids	81.6		% Wt		83.3			2.10	5	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D052-SMD-210728-PCB

SW-846 8082A

 Lab Sample ID: 21G1594-01 Date(s) Analyzed: 07/30/2021 07/30/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

BBD05-SMD-210728-PCB

SW-846 8082A

 Lab Sample ID: 21G1594-02 Date(s) Analyzed: 07/30/2021 07/30/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.30	3.4
Aroclor-1260	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.55	10.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B286996-BS1 Date(s) Analyzed: 07/30/2021 07/30/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.13	14.3



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B286996-BSD1 Date(s) Analyzed: 07/30/2021 07/30/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



FUSS & O'NEILL

216 1564

108 Myrtle Street, Suite 502, Quincy, MA 02171

www.fando.com
(617) 282-4675

SUBSTRATE

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 1

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln., Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717.A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Integral Substrate(s)	Conc. Code (Below)
1 D02-SM-AUTOPB	Soil	NORTH of CAFE	0"	U
2 BDD05-	Soil	↓	1.0 ft	

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: _____ Contest _____ Turnaround Time: RUSH 2 DAY
(48-Hour is Fastest)

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: SMD

Relinquished [By][To] | [Signature] | FND PROCEE | Date: 7/28/21 Time: 0946

Relinquished [By][To] | [Signature] | [Signature] | Date: 7/28/21 Time: 1215

Relinquished [By][To] | [Signature] | [Signature] | Date: 7/28/21 Time: 1625

Q:\EnviroScience\Admin\FORMS\PCBs\July 2014 Revised COC f'orms

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Fuss + O'Neill

Received By [Signature] Date 7/28/21 Time 1625

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.1
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a
 Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? Christian
 Are there Short Holds? F Who was notified? _____

Is there enough Volume? T
 Is there Headspace where applicable? n/a MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? Acid n/a Base n/a

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

July 30, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: 197 Vassal Ln, Cambridge, MA
Client Job Number:
Project Number: 20160717.A30
Laboratory Work Order Number: 21G1593

Enclosed are results of analyses for samples received by the laboratory on July 28, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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 Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 7/30/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G1593

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

PROJECT LOCATION: 197 Vassal Ln, Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DO5C	21G1593-01	Soil		SM 2540G SW-846 8082A	
DO5CI	21G1593-02	Soil		SM 2540G SW-846 8082A	
DO5D	21G1593-03	Soil		SM 2540G SW-846 8082A	
DO5DI	21G1593-04	Soil		SM 2540G 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.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5C

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1254 [1]	0.12	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1260 [1]	1.2	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 11:47	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.0	30-150					7/30/21 11:47	
Decachlorobiphenyl [2]		75.4	30-150					7/30/21 11:47	
Tetrachloro-m-xylene [1]		81.4	30-150					7/30/21 11:47	
Tetrachloro-m-xylene [2]		75.7	30-150					7/30/21 11:47	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5C

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	7/28/21	7/29/21 12:02	GLH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5CI

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1260 [1]	0.37	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:04	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.3	30-150					7/30/21 12:04	
Decachlorobiphenyl [2]		74.5	30-150					7/30/21 12:04	
Tetrachloro-m-xylene [1]		84.0	30-150					7/30/21 12:04	
Tetrachloro-m-xylene [2]		78.6	30-150					7/30/21 12:04	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5C1

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	7/28/21	7/29/21 12:03	GLH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5D

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1254 [1]	0.20	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1260 [1]	1.6	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:22	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.5	30-150					7/30/21 12:22	
Decachlorobiphenyl [2]		75.2	30-150					7/30/21 12:22	
Tetrachloro-m-xylene [1]		84.2	30-150					7/30/21 12:22	
Tetrachloro-m-xylene [2]		78.3	30-150					7/30/21 12:22	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5D

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.3		% Wt	1		SM 2540G	7/28/21	7/29/21 12:03	GLH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5DI

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1254 [2]	0.19	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1260 [1]	0.34	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	7/28/21	7/30/21 12:39	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.2	30-150					7/30/21 12:39	
Decachlorobiphenyl [2]		72.3	30-150					7/30/21 12:39	
Tetrachloro-m-xylene [1]		81.0	30-150					7/30/21 12:39	
Tetrachloro-m-xylene [2]		75.0	30-150					7/30/21 12:39	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 197 Vassal Ln, Cambridge, MA

Sample Description:

Work Order: 21G1593

Date Received: 7/28/2021

Field Sample #: DO5DI

Sampled: 7/20/2021 00:00

Sample ID: 21G1593-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.2		% Wt	1		SM 2540G	7/28/21	7/29/21 12:03	GLH

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Sample Extraction Data
Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21G1593-01 [DO5C]	B286998	07/28/21
21G1593-02 [DO5CI]	B286998	07/28/21
21G1593-03 [DO5D]	B286998	07/28/21
21G1593-04 [DO5DI]	B286998	07/28/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G1593-01 [DO5C]	B286996	10.0	10.0	07/28/21
21G1593-02 [DO5CI]	B286996	10.0	10.0	07/28/21
21G1593-03 [DO5D]	B286996	10.0	10.0	07/28/21
21G1593-04 [DO5DI]	B286996	10.0	10.0	07/28/21

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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
Batch B286996 - SW-846 3540C										
Blank (B286996-BLK1)					Prepared: 07/28/21 Analyzed: 07/30/21					
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.185		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.159		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.168		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.4	30-150			
LCS (B286996-BS1)					Prepared: 07/28/21 Analyzed: 07/30/21					
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		76.3	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.4	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.7	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		66.4	40-140			
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.158		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.161		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.150		mg/Kg wet	0.200		74.9	30-150			
LCS Dup (B286996-BSD1)					Prepared: 07/28/21 Analyzed: 07/30/21					
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.2	40-140	7.51	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.4	40-140	7.79	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	5.76	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		72.6	40-140	8.91	30	
Surrogate: Decachlorobiphenyl	0.190		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.164		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		80.8	30-150			

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QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B286998 - % Solids									
Duplicate (B286998-DUP1)		Source: 21G1593-02		Prepared: 07/28/21 Analyzed: 07/29/21					
% Solids	81.3		% Wt		81.7		0.485	5	
Duplicate (B286998-DUP2)		Source: 21G1593-03		Prepared: 07/28/21 Analyzed: 07/29/21					
% Solids	76.4		% Wt		77.3		1.20	5	
Duplicate (B286998-DUP3)		Source: 21G1593-04		Prepared: 07/28/21 Analyzed: 07/29/21					
% Solids	66.7		% Wt		68.2		2.15	5	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05C

SW-846 8082A

 Lab Sample ID: 21G1593-01 Date(s) Analyzed: 07/30/2021 07/30/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.10	18.2
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.0	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DO5CI

SW-846 8082A

 Lab Sample ID: 21G1593-02 Date(s) Analyzed: 07/30/2021 07/30/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.37	
	2	0.000	-0.030	0.030	0.34	8.5

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DO5D

SW-846 8082A

 Lab Sample ID: 21G1593-03 Date(s) Analyzed: 07/30/2021 07/30/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.17	16.2
Aroclor-1260	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	1.4	13.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

DO5DI

SW-846 8082A

 Lab Sample ID: 21G1593-04 Date(s) Analyzed: 07/30/2021 07/30/2021

 Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.33	3.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

Lab Sample ID: B286996-BS1 Date(s) Analyzed: 07/30/2021 07/30/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.13	14.3

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**IDENTIFICATION SUMMARY
 FOR SINGLE COMPONENT ANALYTES**
LCS Dup
SW-846 8082A

Lab Sample ID: B286996-BSD1 Date(s) Analyzed: 07/30/2021 07/30/2021
 Instrument ID (1): ECD5 Instrument ID (2): ECD5
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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
 - ND Not Detected
 - RL Reporting Limit is at the level of quantitation (LOQ)
 - DL Detection Limit is the lower limit of detection determined by the MDL study
 - MCL Maximum Contaminant Level
- Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
- No results have been blank subtracted unless specified in the case narrative section.



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



FUSS & O'NEILL

108 Myrtle Street, Suite 502, Quincy, MA 02171

2161593

www.fando.com
(617) 282-4675

Substrate

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 1

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln., Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717-A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Substrate(s)	Conc. Code (Below)
1 DOS C-3rd	Soil	North of Cafe	0"	U
2 DOS C-1"	↓	↓	↓	↓
3 DOS D-	↓	↓	↓	↓
4 DOS D1-	↓	↓	↓	↓

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: _____ Contest _____ Turnaround Time: RUSH 3-DAY
(48 Hour is Fastest)

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: [Signature] SMD Date: 7/20/21

Relinquished [By][To] [[Signature]] [[Signature]] Date: 7/20/21 Time: 1500

Relinquished [By][To] [[Signature]] [[Signature]] Date: 7/28/21 Time: 1215

Relinquished [By][To] [[Signature]] [[Signature]] Date: 7/28/21 Time: 1625

Q:\InViroScience\Admin\FORMS\PCBs\July-2014 Revised COC Forms

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Fuss + O'Neil

Received By [Signature] Date 7/28/21 Time 1625

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 4.1
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? na Were Samples Tampered with? na
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? na

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Christian

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid na Base na

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

August 9, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: MA
Client Job Number:
Project Number: 20160717.A30 Task C3
Laboratory Work Order Number: 21H0163

Enclosed are results of analyses for samples received by the laboratory on August 4, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171
ATTN: Rob Mallett

REPORT DATE: 8/9/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30 Task C3

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21H0163

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

PROJECT LOCATION: MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D05E-SMD-210804-PCB	21H0163-01	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05E1-SMD-210804-PCB	21H0163-02	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05F-SMD-210804-PCB	21H0163-03	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05F1-SMD-210804-PCB	21H0163-04	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05G-SMD-210804-PCB	21H0163-05	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05G1-SMD-210804-PCB	21H0163-06	Soil	Cafe Exterior soil	SM 2540G 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:

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.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

21H0163-06[D05G1-SMD-210804-PCB]

Decachlorobiphenyl [2C]

21H0163-06[D05G1-SMD-210804-PCB]

Tetrachloro-m-xylene

21H0163-06[D05G1-SMD-210804-PCB]

Tetrachloro-m-xylene [2C]

21H0163-06[D05G1-SMD-210804-PCB]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05E-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1254 [1]	0.23	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1260 [1]	1.1	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:24	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.2	30-150					8/6/21 12:24	
Decachlorobiphenyl [2]		84.1	30-150					8/6/21 12:24	
Tetrachloro-m-xylene [1]		77.6	30-150					8/6/21 12:24	
Tetrachloro-m-xylene [2]		79.5	30-150					8/6/21 12:24	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05E-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	8/5/21	8/6/21 10:07	jml

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05E1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1254 [1]	0.095	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1260 [1]	0.44	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:42	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.6	30-150					8/6/21 12:42	
Decachlorobiphenyl [2]		88.0	30-150					8/6/21 12:42	
Tetrachloro-m-xylene [1]		82.5	30-150					8/6/21 12:42	
Tetrachloro-m-xylene [2]		85.8	30-150					8/6/21 12:42	



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Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05E1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.4		% Wt	1		SM 2540G	8/5/21	8/6/21 10:08	jml

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05F-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1254 [2]	0.21	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1260 [1]	1.0	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 12:59	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.3	30-150					8/6/21 12:59	
Decachlorobiphenyl [2]		84.2	30-150					8/6/21 12:59	
Tetrachloro-m-xylene [1]		79.7	30-150					8/6/21 12:59	
Tetrachloro-m-xylene [2]		83.0	30-150					8/6/21 12:59	

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05F-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	8/5/21	8/6/21 10:08	jml

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05F1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1254 [2]	0.28	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1260 [1]	0.65	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:17	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.5	30-150					8/6/21 13:17	
Decachlorobiphenyl [2]		75.5	30-150					8/6/21 13:17	
Tetrachloro-m-xylene [1]		71.0	30-150					8/6/21 13:17	
Tetrachloro-m-xylene [2]		73.1	30-150					8/6/21 13:17	



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Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05F1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	8/5/21	8/6/21 10:08	jml

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05G-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1254 [2]	0.089	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1260 [2]	0.33	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/4/21	8/6/21 13:35	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.2	30-150					8/6/21 13:35	
Decachlorobiphenyl [2]		85.9	30-150					8/6/21 13:35	
Tetrachloro-m-xylene [1]		80.0	30-150					8/6/21 13:35	
Tetrachloro-m-xylene [2]		82.7	30-150					8/6/21 13:35	



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Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05G-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	8/5/21	8/6/21 10:08	jml

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05G1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1254 [2]	1.2	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1260 [2]	3.9	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg dry	40		SW-846 8082A	8/4/21	8/6/21 14:46	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			8/6/21 14:46	
Decachlorobiphenyl [2]		*	30-150		S-01			8/6/21 14:46	
Tetrachloro-m-xylene [1]		*	30-150		S-01			8/6/21 14:46	
Tetrachloro-m-xylene [2]		*	30-150		S-01			8/6/21 14:46	



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Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0163

Date Received: 8/4/2021

Field Sample #: D05G1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0163-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.2		% Wt	1		SM 2540G	8/5/21	8/6/21 10:08	jml

Sample Extraction Data**Prep Method: % Solids Analytical Method: SM 2540G**

Lab Number [Field ID]	Batch	Date
21H0163-01 [D05E-SMD-210804-PCB]	B287581	08/05/21
21H0163-02 [D05E1-SMD-210804-PCB]	B287581	08/05/21
21H0163-03 [D05F-SMD-210804-PCB]	B287581	08/05/21
21H0163-04 [D05F1-SMD-210804-PCB]	B287581	08/05/21
21H0163-05 [D05G-SMD-210804-PCB]	B287581	08/05/21
21H0163-06 [D05G1-SMD-210804-PCB]	B287581	08/05/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21H0163-01 [D05E-SMD-210804-PCB]	B287477	10.0	10.0	08/04/21
21H0163-02 [D05E1-SMD-210804-PCB]	B287477	10.0	10.0	08/04/21
21H0163-03 [D05F-SMD-210804-PCB]	B287477	10.0	10.0	08/04/21
21H0163-04 [D05F1-SMD-210804-PCB]	B287477	10.0	10.0	08/04/21
21H0163-05 [D05G-SMD-210804-PCB]	B287477	10.0	10.0	08/04/21
21H0163-06 [D05G1-SMD-210804-PCB]	B287477	10.0	10.0	08/04/21

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 B287477 - SW-846 3540C
Blank (B287477-BLK1)

Prepared: 08/04/21 Analyzed: 08/06/21

Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.174		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.175		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg wet	0.200		79.1	30-150			

LCS (B287477-BS1)

Prepared: 08/04/21 Analyzed: 08/06/21

Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		73.3	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.3	40-140			
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		66.6	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		66.4	40-140			
Surrogate: Decachlorobiphenyl	0.153		mg/Kg wet	0.200		76.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg wet	0.200		76.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.144		mg/Kg wet	0.200		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.148		mg/Kg wet	0.200		73.9	30-150			

LCS Dup (B287477-BSD1)

Prepared: 08/04/21 Analyzed: 08/06/21

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.8	40-140	8.46	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		81.9	40-140	9.73	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	14.0	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140	14.1	30	
Surrogate: Decachlorobiphenyl	0.179		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.179		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.153		mg/Kg wet	0.200		76.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.3	30-150			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05E-SMD-210804-PCB

SW-846 8082A

Lab Sample ID: 21H0163-01 Date(s) Analyzed: 08/06/2021 08/06/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.1	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05E1-SMD-210804-PCB

SW-846 8082A

Lab Sample ID: 21H0163-02 Date(s) Analyzed: 08/06/2021 08/06/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.44	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05F-SMD-210804-PCB

SW-846 8082A

Lab Sample ID: 21H0163-03 Date(s) Analyzed: 08/06/2021 08/06/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	0.0
Aroclor-1260	1	0.000	-0.030	0.030	1.0	
	2	0.000	-0.030	0.030	1.0	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05F1-SMD-210804-PCB

SW-846 8082A

Lab Sample ID: 21H0163-04 Date(s) Analyzed: 08/06/2021 08/06/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.28	7.4
Aroclor-1260	1	0.000	-0.030	0.030	0.65	
	2	0.000	-0.030	0.030	0.64	1.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

D05G-SMD-210804-PCB

SW-846 8082A

Lab Sample ID: 21H0163-05 Date(s) Analyzed: 08/06/2021 08/06/2021

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.33	
	2	0.000	-0.030	0.030	0.33	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05G1-SMD-210804-PCB

SW-846 8082A

 Lab Sample ID: 21H0163-06 Date(s) Analyzed: 08/06/2021 08/06/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	1.0	
	2	0.000	-0.030	0.030	1.2	8.7
Aroclor-1260	1	0.000	-0.030	0.030	3.7	
	2	0.000	-0.030	0.030	3.9	5.3

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS
SW-846 8082A

 Lab Sample ID: B287477-BS1 Date(s) Analyzed: 08/06/2021 08/06/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup
SW-846 8082A

 Lab Sample ID: B287477-BSD1 Date(s) Analyzed: 08/06/2021 08/06/2021

 Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

FLAG/QUALIFIER SUMMARY

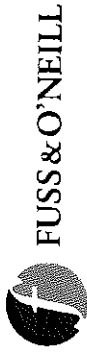
*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
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,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



108 Myrtle Street, Suite 502, Quincy, MA 02171

211010103
SUBSTRATE

www.fando.com
(617) 282-4675

PCB Bulk Sample Chain-of-Custody Form

Sheet 1 of 2

Project Name: Tobin Vassal School Demo Site Address: 197 Vassal Ln, Cambridge, MA Project Manager: Rob Mallett

Project Number: 20160717.A30 Building Name/Number: _____

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Interval Substrate(s)	Conc. Code (Below)
01 P05E-SMIV-210804-PCB	Soil	CAFE EXTERIOR-Soil	0"	U
02 D05E1*			5" ft	
03 D05E			0"	
04 D05F1			5" ft	
05 P05G			0"	
06 D05G1			5" ft	

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: _____ Contest _____ Turnaround Time: Standard
RUStH (2-3 days)
(48-Hour-is-Fastest)

E-Mail PDF of Results to RMallett@fando.com

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By: SMV Date: 8/4/21

Relinquished [By][To] [Signature] II FRO FRENKIE Date: 8/4/21 Time: 1010

Relinquished [By][To] [Signature] II John Date: 8/4/21 Time: 1156

Relinquished [By][To] [Signature] II John Date: 8/4/21 Time: 1630

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Fuss & O'Neill

Received By RUF Date 8/4/21 Time 1030

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 2.2°C
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Christina

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

Appendix F

Mercury Laboratory Reports & Chain-of-Custody Forms

July 16, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: Cambridge, MA
Client Job Number:
Project Number: 20160717.A30 Task C30
Laboratory Work Order Number: 21G0699

Enclosed are results of analyses for samples received by the laboratory on July 14, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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Chain of Custody/Sample Receipt	10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171
ATTN: Rob Mallett

REPORT DATE: 7/16/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30 Task C30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G0699

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
900-RCM-210713-HG	21G0699-01	Product/Solid		SW-846 7471B	

CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description:

Work Order: 21G0699

Date Received: 7/14/2021

Field Sample #: 900-RCM-210713-HG

Sampled: 7/13/2021 11:00

Sample ID: 21G0699-01

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Mercury	230	11	mg/Kg	400		SW-846 7471B	7/15/21	7/15/21 13:27	CJV

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 7471 Analytical Method: SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21G0699-01 [900-RCM-210713-HG]	B286009	0.567	50.0	07/15/21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B286009 - SW-846 7471										
Blank (B286009-BLK1)				Prepared & Analyzed: 07/15/21						
Mercury	ND	0.025	mg/Kg							
LCS (B286009-BS1)				Prepared & Analyzed: 07/15/21						
Mercury	15.4	0.76	mg/Kg	15.6		98.8	59.3-140.4			
LCS Dup (B286009-BSD1)				Prepared & Analyzed: 07/15/21						
Mercury	13.3	0.75	mg/Kg	15.6		85.1	59.3-140.4	14.9	20	

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS

Certified Analyses included in this Report

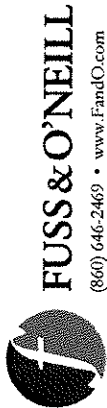
Analyte	Certifications
---------	----------------

SW-846 7471B in Product/Solid

Mercury CT,NH,NY,ME,NC,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



FUSS & O'NEILL
 (860) 646-2469 • www.FandO.com

- 146 Hartford Road, Manchester, CT 06040
- 56 Quarry Road, Trumbull, CT 06611
- 1419 Richland Street, Columbia, SC 29201

- 78 Interstate Drive, West Springfield, MA 01089
- 108 Myrtle Street, #502, North Quincy, MA 02171
- 317 Iron Horse Way, Suite 204, Providence, RI 02908

80 Washington Street, Suite 301, Poughkeepsie, NY

CHAIN-OF-CUSTODY RECORD

41763

Turnaround

24-Hour* 72-Hour* Other _____ (days)
 48-Hour Standard (_____ days) *Surcharge Applies

PROJECT NUMBER

20160717.A30

LABORATORY

CONTEST

PROJECT LOCATION

TMNL Demo CAMBRIDGE, MA

Analysis Request

REPORT TO: Bob Mallett (Mallett@fandO.com)

INVOICE TO: [Signature]

P.O. NO.: 154328160717.A30

Sampler's Signature: [Signature] Date: 7/13/11

Source Codes: MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
 SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

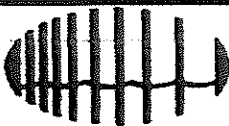
X=Other _____

Containers	Analysis Request
Soil VOA Vial, □ methanol	Total Mercury (Hg)
Soil VOA Vial, □ water	
Glass Soil Container (□ Na2SO4)	
Other	
Other	
Water VOA Vial, □ As is	
Glass Amber () ml, □ As is	
Plastic - As is, □ 250 ml □ 500 □ 1000 ml	
Plastic - HNO3, □ 250 ml □ 500 ml	
Plastic - NaOH, 250 ml	

Item No.	Transfer Check	Sample Number	Source Code	Date Sampled	Time Sampled	Accepted By	Date	Time
1	X	906-RCM-210213-116	5	7/13/11	1100	[Signature]	7/13/11	1407
2						[Signature]	7/14/11	1120
3						[Signature]	7/14/11	1700
4								

Charge Exceptions: CI Tax Exempt QA/QC Other _____
 Reporting and Detection Limit Requirements: RCP Deliverables MCP CAM Cert.
 Additional Comments:

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client FUSS & O'Neill

Received By RUF Date 7/11/21 Time 1800

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 3.6°C
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Jackie

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? L On COC? F

Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

July 23, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: Cambridge, MA
Client Job Number:
Project Number: 20160717.A30
Laboratory Work Order Number: 21G1141

Enclosed are results of analyses for samples received by the laboratory on July 21, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171
ATTN: Rob Mallett

REPORT DATE: 7/23/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21G1141

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
900A-CD-210721-Hg	21G1141-01	Product/Solid		SW-846 7470A	

CASE NARRATIVE SUMMARY

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

SW-846 7470A

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Mercury

21G1141-01[900A-CD-210721-Hg], B286668-MS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Cambridge, MA

Sample Description:

Work Order: 21G1141

Date Received: 7/21/2021

Field Sample #: 900A-CD-210721-Hg

Sampled: 7/21/2021 10:00

Sample ID: 21G1141-01

Sample Matrix: Product/Solid

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Mercury	1.3	0.020	mg/L	200	MS-19	SW-846 7470A	7/23/21	7/23/21 14:48	CJV

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Sample Extraction Data

Prep Method: SW-846 7470A Prep Analytical Method: SW-846 7470A were extracted on 7/22/2021 per SW-846 1311 in Batch B286566

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
21G1141-01 [900A-CD-210721-Hg]	B286668	6.00	6.00	07/23/21

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QUALITY CONTROL
TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B286668 - SW-846 7470A Prep										
Blank (B286668-BLK1)				Prepared & Analyzed: 07/23/21						
Mercury	ND	0.00010	mg/L							
LCS (B286668-BS1)				Prepared & Analyzed: 07/23/21						
Mercury	0.00405	0.00010	mg/L	0.00400		101	80-120			
LCS Dup (B286668-BSD1)				Prepared & Analyzed: 07/23/21						
Mercury	0.00396	0.00010	mg/L	0.00400		98.9	80-120	2.33	20	
Matrix Spike (B286668-MS1)				Source: 21G1141-01 Prepared & Analyzed: 07/23/21						
Mercury	1.41	0.020	mg/L	0.00400	1.33	2140 *	75-125			MS-19

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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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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SW-846 7470A in Water

Mercury CT,ME,NC,NH,NY,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2021
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client F+O
 Received By [Signature] Date 7/21/21 Time 1805
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 3.6
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? n/a Were Samples Tampered with? n/a
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? F Who was notified? _____
 Are there Rushes? T Who was notified? Jackie
 Are there Short Holds? F Who was notified? _____
 Is there enough Volume? T
 Is there Headspace where applicable? n/a MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? Acid n/a Base n/a

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:

August 13, 2021

Rob Mallett
Fuss & O'Neill EnviroScience, LLC - MA
108 Myrtle St,
Quincy, MA 02171

Project Location: MA
Client Job Number:
Project Number: 20160717.A30 Task C3
Laboratory Work Order Number: 21H0208

Enclosed are results of analyses for samples received by the laboratory on August 4, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica L. Hoffman
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

 Fuss & O'Neill EnviroScience, LLC - MA
 108 Myrtle St,
 Quincy, MA 02171
 ATTN: Rob Mallett

REPORT DATE: 8/13/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20160717.A30 Task C3

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21H0208

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

PROJECT LOCATION: MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
D05H-SMD-210804-PCB	21H0208-01	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05H1-SMD-210804-PCB	21H0208-02	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05I-SMD-210804-PCB	21H0208-03	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05I1-SMD-210804-PCB	21H0208-04	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05J-SMD-210804-PCB	21H0208-05	Soil	Cafe Exterior soil	SM 2540G SW-846 8082A	
D05J1-SMD-210804-PCB	21H0208-06	Soil	Cafe Exterior soil	SM 2540G 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.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05H-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1254 [2]	0.16	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1260 [1]	0.61	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:07	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.1	30-150					8/12/21 14:07	
Decachlorobiphenyl [2]		82.2	30-150					8/12/21 14:07	
Tetrachloro-m-xylene [1]		78.9	30-150					8/12/21 14:07	
Tetrachloro-m-xylene [2]		79.6	30-150					8/12/21 14:07	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05H-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.1		% Wt	1		SM 2540G	8/12/21	8/12/21 21:11	JML

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05H1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1254 [2]	0.23	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1260 [1]	0.60	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:25	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.3	30-150					8/12/21 14:25	
Decachlorobiphenyl [2]		81.4	30-150					8/12/21 14:25	
Tetrachloro-m-xylene [1]		80.4	30-150					8/12/21 14:25	
Tetrachloro-m-xylene [2]		83.2	30-150					8/12/21 14:25	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05H1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	8/12/21	8/12/21 21:11	JML

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05I-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1254 [2]	0.28	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1260 [1]	1.0	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 14:43	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.0	30-150					8/12/21 14:43	
Decachlorobiphenyl [2]		71.1	30-150					8/12/21 14:43	
Tetrachloro-m-xylene [1]		70.5	30-150					8/12/21 14:43	
Tetrachloro-m-xylene [2]		72.1	30-150					8/12/21 14:43	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05I-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.1		% Wt	1		SM 2540G	8/12/21	8/12/21 21:11	JML

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D0511-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1260 [1]	0.31	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:01	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.9	30-150					8/12/21 15:01	
Decachlorobiphenyl [2]		70.5	30-150					8/12/21 15:01	
Tetrachloro-m-xylene [1]		74.6	30-150					8/12/21 15:01	
Tetrachloro-m-xylene [2]		78.2	30-150					8/12/21 15:01	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D0511-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	8/12/21	8/12/21 21:11	JML

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05J-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1254 [2]	0.13	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1260 [1]	0.54	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:19	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.2	30-150					8/12/21 15:19	
Decachlorobiphenyl [2]		87.1	30-150					8/12/21 15:19	
Tetrachloro-m-xylene [1]		86.1	30-150					8/12/21 15:19	
Tetrachloro-m-xylene [2]		87.3	30-150					8/12/21 15:19	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05J-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.9		% Wt	1		SM 2540G	8/12/21	8/12/21 21:12	JML

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05J1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1260 [2]	0.089	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	8/11/21	8/12/21 15:37	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.2	30-150					8/12/21 15:37	
Decachlorobiphenyl [2]		76.7	30-150					8/12/21 15:37	
Tetrachloro-m-xylene [1]		77.9	30-150					8/12/21 15:37	
Tetrachloro-m-xylene [2]		81.2	30-150					8/12/21 15:37	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: MA

Sample Description: Cafe Exterior soil

Work Order: 21H0208

Date Received: 8/4/2021

Field Sample #: D05J1-SMD-210804-PCB

Sampled: 8/4/2021 00:00

Sample ID: 21H0208-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.5		% Wt	1		SM 2540G	8/12/21	8/12/21 21:12	JML

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data
Prep Method: % Solids Analytical Method: SM 2540G

Lab Number [Field ID]	Batch	Date
21H0208-01 [D05H-SMD-210804-PCB]	B288081	08/12/21
21H0208-02 [D05H1-SMD-210804-PCB]	B288081	08/12/21
21H0208-03 [D05I-SMD-210804-PCB]	B288081	08/12/21
21H0208-04 [D05I1-SMD-210804-PCB]	B288081	08/12/21
21H0208-05 [D05J-SMD-210804-PCB]	B288081	08/12/21
21H0208-06 [D05J1-SMD-210804-PCB]	B288081	08/12/21

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21H0208-01 [D05H-SMD-210804-PCB]	B287986	10.0	10.0	08/11/21
21H0208-02 [D05H1-SMD-210804-PCB]	B287986	10.0	10.0	08/11/21
21H0208-03 [D05I-SMD-210804-PCB]	B287986	10.0	10.0	08/11/21
21H0208-04 [D05I1-SMD-210804-PCB]	B287986	10.0	10.0	08/11/21
21H0208-05 [D05J-SMD-210804-PCB]	B287986	10.0	10.0	08/11/21
21H0208-06 [D05J1-SMD-210804-PCB]	B287986	10.0	10.0	08/11/21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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
Batch B287986 - SW-846 3540C										
Blank (B287986-BLK1)										
Prepared: 08/11/21 Analyzed: 08/12/21										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.156		mg/Kg wet	0.200		77.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.143		mg/Kg wet	0.200		71.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.148		mg/Kg wet	0.200		74.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.6	30-150			
LCS (B287986-BS1)										
Prepared: 08/11/21 Analyzed: 08/12/21										
Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		68.5	40-140			
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		63.8	40-140			
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		63.5	40-140			
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		61.1	40-140			
Surrogate: Decachlorobiphenyl	0.138		mg/Kg wet	0.200		68.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.127		mg/Kg wet	0.200		63.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.133		mg/Kg wet	0.200		66.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.125		mg/Kg wet	0.200		62.5	30-150			
LCS Dup (B287986-BSD1)										
Prepared: 08/11/21 Analyzed: 08/12/21										
Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		70.1	40-140	2.30	30	
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		63.6	40-140	0.408	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		64.5	40-140	1.55	30	
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		61.7	40-140	0.869	30	
Surrogate: Decachlorobiphenyl	0.140		mg/Kg wet	0.200		70.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.129		mg/Kg wet	0.200		64.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.138		mg/Kg wet	0.200		69.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.133		mg/Kg wet	0.200		66.5	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05H-SMD-210804-PCB

SW-846 8082A

 Lab Sample ID: 21H0208-01 Date(s) Analyzed: 08/12/2021 08/12/2021

 Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.16	20.7
Aroclor-1260	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.56	8.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05H1-SMD-210804-PCB

SW-846 8082A

 Lab Sample ID: 21H0208-02 Date(s) Analyzed: 08/12/2021 08/12/2021

 Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.23	9.1
Aroclor-1260	1	0.000	-0.030	0.030	0.60	
	2	0.000	-0.030	0.030	0.55	8.7

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05I-SMD-210804-PCB
SW-846 8082A

 Lab Sample ID: 21H0208-03 Date(s) Analyzed: 08/12/2021 08/12/2021

 Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.28	24.0
Aroclor-1260	1	0.000	-0.030	0.030	1.0	
	2	0.000	-0.030	0.030	0.92	8.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05I1-SMD-210804-PCB

SW-846 8082A

 Lab Sample ID: 21H0208-04 Date(s) Analyzed: 08/12/2021 08/12/2021

 Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.29	6.7

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

D05J-SMD-210804-PCB

SW-846 8082A

 Lab Sample ID: 21H0208-05 Date(s) Analyzed: 08/12/2021 08/12/2021

 Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.13	16.7
Aroclor-1260	1	0.000	-0.030	0.030	0.54	
	2	0.000	-0.030	0.030	0.50	7.7

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

 Lab Sample ID: B287986-BS1 Date(s) Analyzed: 08/12/2021 08/12/2021

 Instrument ID (1): ECD1 Instrument ID (2): ECD1

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2021
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2021



2140208
2140203 RE
SUBSTRATE

PCB Bulk Sample Chain-of-Custody Form

Sheet 2 of 2

Project Name: Tobin Vassal School Demo

Site Address: 197 Vassal Ln, Cambridge, MA

Project Number: 20160717.A30

Building Name/Number:

Project Manager: Rob Mallett

0
5
5
5
5
5

Sample ID (#-Initial-Date-PCB)	Material Type	Location	Interval Substrate(s)	Conc. Code (Below)
D05H-SMD-210804-PCB	Soil	CAFE EXTERIOR - Soil	0"	U
D05H1 - " "	↓	↓	5ft	↓
D05E -	↓	↓	0"	↓
D05E1	↓	↓	5ft	↓
D05J	↓	↓	0"	↓
D05J1	↓	↓	5ft	↓
Client chose to activate samples on rush tat. JLH 8/11/2021				

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis)

Laboratory: Contest

Turnaround Time: ~~Standard~~
(48-Hour is Fastest)

Concentration Code: H=High, M=Medium, L=Low, C=Clean, U=Unknown

E-Mail PDF of Results to

RMallett@fando.com.

HOLID

Special Instruction/Comments: Preserved with Ice in Glass Jars with Teflon Lined Caps

Samples Collected By:

SMD

Date: 8/4/21

Relinquished [By][To] [Signature] ||

F+U FRADIE

Date: 8/4/21

Time: 1010

Relinquished [By][To] [Signature] ||

[Signature]

Date: 8/4/21

Time: 1156

Relinquished [By][To] [Signature] ||

[Signature] 22

Date: 8/4/21

Time: 1630

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples _____



con-test
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client FESS 40 Well

Received By RLF Date 8/4/21 Time 1130

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 2.2°c
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Christian

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid NA Base NA

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments: