

Indoor Air and Wipe Sampling for Polychlorinated Biphenyls (PCBs)

John F Kennedy Middle School
155 Raffia Road
Enfield, Connecticut

Town of Enfield
Enfield, Connecticut

July 26, 2018



FUSS & O'NEILL

Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040



FUSS & O'NEILL

July 26, 2018

Mr. Gregg Gabinelle
DPW Deputy Director
Town of Enfield
40 Moody Road
Enfield, CT 06082
Email: ggabinelle@enfield.org

**RE: Indoor Air and Wipe Sampling for Polychlorinated Biphenyls (PCBs)
John F. Kennedy Middle School, 155 Raffia Road, Enfield, CT**
Fuss & O'Neill Project No. 20170088.A9E

Dear Mr. Gabinelle:

Enclosed please find the report for confirmatory indoor air and hexane surface wipe PCB sampling event performed at John F. Kennedy Middle School on June 21 and 22, 2018, following the implementation of the controls and methods outlined in the John F. Kennedy Middle School Operations and Maintenance Plan. This work was performed by Fuss & O'Neill, Inc. (Fuss & O'Neill) and included collection of indoor air samples and hexane wipe samples. Copies of the laboratory analytical reports are included in the appendices.

If you have any questions regarding the enclosed report, please do not hesitate to contact me at (860) 646-2469, extension 5570. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Carlos Texidor
Senior Project Manager

CT/kr

146 Hartford Road
Manchester, CT
06040
t 860.646.2469
800.286.2469
f 860.533.5143

www.fando.com

California
Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Table of Contents

Indoor Air and Wipe Sampling for Polychlorinated Biphenyls John F. Kennedy Middle School Town of Enfield

1	Introduction and Background	1
1.1	PCB Source Materials.....	2
1.2	Indoor Air and Surface Wipe Testing.....	3
1.3	Implementation of the O&M Plan	4
2	Scope of Testing and Methodology	4
2.1	PCB Indoor Air Sampling	4
2.2	PCB Wipe Sampling.....	5
2.3	Field Quality Assurance/Quality Control (QA/QC).....	6
3	Action Levels and Controls	6
4	Initial Air and Wipe Sampling	6
4.1	Investigative Indoor Air Sampling Event.....	6
4.2	Supplemental Investigative Indoor Air Sampling	7
4.3	Investigative Surface Wipes	7
4.4	Supplemental Wipe Egress Study	8
5	Initiation of O&M Plan Quarterly Testing	8
6	Results of Previous O&M Air Sampling Events	10
6.1	August 2017.....	10
6.2	December 2017	10
6.3	April 2018	11
7	Results of Previous Surface Wipe sampling Events	11
7.1	August 2017.....	11
7.2	December 2017	12
7.3	March 2018.....	12
8	Indoor Air Sampling Event: June 2018	12
9	Surface Wipe Sampling Event: June 2018	12
10	Discussion and Conclusion	13

Tables

End of Report

- 1-1. Confirmatory Indoor Air Sample Results – June 22, 2018



- 1-2. Historical Indoor Air Sample Results
- 2-1 Confirmatory Surface Wipe Results – June 21, 2018
- 2-2 Historical Surface Wipes Results
- 3-1 Summary of Field Blank Results
- 3-2 Summary of Duplicate Sample Results

Appendices

End of Report

- APPENDIX A - WIPE SAMPLING METHOD
- APPENDIX B - LABORATORY ANALYTICAL REPORTS
- APPENDIX C - SAMPLE LOCATION DIAGRAMS
- APPENDIX D - CHRONOLOGICAL SAMPLING BY ROOM AIR & WIPE RESULTS

1 Introduction and Background

The John F. Kennedy (JFK) Middle School building structure is comprised of four different construction configurations, the original 1967 school building, a 30' x 30' portable classroom, a 30' x 60' portable classroom, and a new administration area.

The original JFK Middle School building, constructed in 1967, is a two-story slab-on-grade building comprised of seven individual wings arranged in a spoke pattern centrally connected around a common "Hub" area located in the center of the school. The building contains approximately 170,000 square feet (SF) of total floor area including the portable classrooms.

The administrative wing of the original building is comprised of the guidance department, administrative support spaces, faculty offices and department work spaces. The red wing, black wing, blue wing, and white wing are comprised of classroom spaces, science laboratory spaces. The yellow wing is comprised of the gymnasium, a pool area, boys' and girls' locker rooms, and associated faculty offices within the locker rooms. The green wing is comprised of the kitchen, cafeteria, faculty dining, boiler room, janitorial office/storage and receiving area.

The predominant interior wall finishes throughout the original school building are brick within the interior hallways and glazed or CMU block within the classrooms and laboratory spaces with ceramic tile observed in the restrooms and sheetrock and plaster (rear wall of stage) observed in limited areas. The predominant ceiling finish is 2' x 4' and 2' x 2' suspended ceiling tile with sheetrock observed in the boys' locker room and plaster observed in the girls' locker room and boiler room. The predominant flooring finish is 12" x 12" vinyl floor tile. Other flooring overserved included epoxy painted floors in the boiler room, auditorium and storage areas, wood flooring observed in the gymnasium and on the stage, quarry tile in the kitchen, and ceramic mosaic tile observed in the bathrooms throughout each of the wings. Carpet was observed in limited areas.

Sheetrock fire and smoke barriers, installed in 1993, were observed above the suspended ceiling grid throughout the school with light pink, medium red, and bright red fire stop compounds observed at the joint between the corrugated steel pan roof decking and the underlying CMU block, brick or sheetrock walls. No "spray-on" fireproofing was observed at structural beams or the underside of the corrugated steel pan roof decking at the time of this limited survey. No vermiculite insulation was observed within the wall cavities along the perimeter of the auditorium.

Roofing materials throughout the original building consist of a "built-up" roof of gravel over 4-ply roof membrane, over a fiberglass insulation affixed to a base paper with a black, hard, asphaltic-like coating applied to the topside of the corrugated steel pan roof deck. Expansion joints located on the roof are comprised of a Manville "Expando-flash" product with foam insulation and black flashing along the horizontals with a black sealant located at the end caps of the individual expansion joints. Light grey repair caulking compound was observed at the roof level of the brick façade above the pool. White, medium grey and black repair caulking compounds were observed along expansion joints, vents and stacks. Black/dark brown flashing was observed along expansion joints, the perimeter of the roof to brick façade materials and at curb bases for mechanical units. A black asphalt-like residue was observed in limited areas on the façade and at flashing.

According to construction/renovation drawings provided by the Town of Enfield, multiple renovation and maintenance projects have been performed, including:

- 1989 Original Building Roof Replacement Project;
- 1993 Swimming Pool Renovation Project;
- 1993 Code Compliance Project;
- 1999 30' x 60' Portable Classroom Expansion;
- 2000 30' x 30' Portable Classroom Expansion;
- 2000 Science Laboratory Upgrade/Renovation; and
- 2001 Administration Wing Addition.

The portable classrooms are accessed by exiting the Red Wing at the northwest corner of the school. A covered walkway connects the portable classroom area with the original school building. Interior wall finishes throughout the two portable classroom buildings are sheetrock with a tan-striped wallpaper within classroom areas and painted sheetrock within the entrance. Ceiling finishes are 2' x 4' and 2' x 2' suspended ceiling tile, both portable classroom buildings are carpeted throughout. Fiberglass insulation was observed behind sheetrock walls and above the suspended ceiling grid within the portable classrooms. No “spray-on” insulation was observed on the underside of the plywood roof deck or within the wood stud framed ceiling joists. Portable classrooms are heated and cooled by ground mounted air handling units. Roofing materials at the portable classrooms are comprised of rubber membrane over fiberboard insulation and an off-white/beige backing paper mounted directly to the plywood roof deck. Medium/dark grey caulking was observed along the termination bars at the perimeter of the EPDM roof membrane. Black lap seal was observed in isolated areas at patches to the roof membrane. White roof sealant was observed at roof penetrations.

The administration wing addition was constructed on the western end of the original administration wing adjacent to the parking lot. The addition was built in 2001 and includes a library, main office, four restrooms, a computer lab, and staff offices. Interior wall finishes are comprised of sheetrock, CMU block, brick and glass partition walls. Ceiling finishes are 2' x 4' and 2' x 2' suspended ceiling tiles. Floor finishes include vinyl tile within hallways and administration common spaces and carpet within the library and staff offices. Roofing materials at the administration addition are comprised of rubber membrane affixed to fiberboard over isocyanate insulation mounted to the plywood roof deck.

On March 29, 2017 and April 14, 2017, Fuss & O'Neill performed a field survey of suspect PCB-containing source materials throughout the original 1967 school building. The work was conducted as part of a pre-renovation feasibility study and included only caulking and glazing compounds associated with windows, doors, louvers, vents and masonry wall joints.

1.1 PCB Source Materials

Materials with PCB concentrations greater than 50 parts-per-million (ppm) are determined to be a federally regulated waste under the Toxic Substance Control Act (TSCA) (40 CFR 760). According to 40 CFR 761.3, caulk less than 50 ppm PCBs considered an “excluded PCB product” is not federally regulated as a PCB Remediation Waste by the Environmental Protection Agency (EPA). However, the

Connecticut Department of Energy and Environmental Protection (CT DEEP) also regulates materials containing greater than 1 but less than 50 ppm PCBs (CGS 22a-463 through 22a-469).

Based on the PCB inspection of JFK Middle School conducted in 2017, the school contains source materials regulated both by the EPA (>50 ppm PCBs) and by the CT DEEP (>1 ppm, but <50 ppm PCBs).

EPA-regulated source materials **greater than 50 ppm PCBs** include the following:

- Exterior window frame caulking (at Type 3 and Type 6 windows)
- Exterior window caulking at pre-cast concrete sills
- Exterior expansion joints within brick facade
- Interior masonry joints

CT DEEP Regulated source materials **greater than 1 ppm but less than 50 ppm PCBs** include the following:

- Exterior window frame caulking (excluding Type 3 and Type 6 windows)
- Exterior window glazing
- Exterior door frame caulking
- Exterior louver and vent caulking
- Interior caulking at countertop and backsplashes
- Interior glazing at stairwell doors and windows
- Interior caulking at exterior windows
- Contaminated soils have been identified at various locations around the perimeter of the original JFK Middle School building

After these materials were identified, Fuss & O'Neill then conducted indoor air sampling and surface wipe sampling to investigate the potential for PCB exposure within the school.

1.2 Indoor Air and Surface Wipe Testing

The initial investigative indoor air and surface wipe sampling event was performed on May 24-25, 2017 in accordance with our proposal dated April 21, 2017. Indoor air samples collected on May 24, 2017 were prepared incorrectly by the laboratory, resulting in the data being unusable. These samples were re-collected on June 2, 2017. A supplemental round of indoor air sampling was performed on June 23, 2017 to compare the results of duplicate samples analyzed by two different laboratories.

After correspondence with representatives of the EPA Region 1 and CT DEEP, Fuss & O'Neill conducted supplemental wipe sampling focusing on access points to the school to determine if PCB contaminated soils were being tracked into the building. This supplemental wipe event was performed on August 22, 2017.

The results of these air and surface wipe sampling events along with correspondence with the CT Department of Public Health (CT DPH), the EPA, and CT DEEP led to the decision to develop a PCB Operations and Maintenance Plan (O&M Plan).

1.3 Implementation of the O&M Plan

The O&M Plan was developed by Fuss & O'Neill on behalf of Enfield Public Schools under the proposal dated July 12, 2017 (Revised July 18, 2017) and focused on addressing the presence of PCBs on horizontal surfaces, PCBs in indoor air and PCBs within soils at the base of the exterior facade. The O&M Plan covered control measures to be implemented to reduce the PCB concentrations in air and dust throughout the school and to continue regular air and surface wipe testing to assess the effectiveness of the control methods.

Prior to June 2018, the following air and wipe sample events have were performed at the Site:

- June 24 and 25, 2017: Initial air and wipe sampling following the discovery of PCB containing source materials.
- June 2, 2017: Retest of air samples taken May 24, 2017 that were prepared incorrectly by the laboratory.
- June 23, 2017: Supplemental air sampling event to compare results duplicate samples sent to separate laboratories.
- August 22, 2017: Wipe egress study to assess whether contaminated soil was being tracked into the building.
- August 30, 2017: Confirmatory O&M air and wipe sampling.
- December 13 and 14, 2017: Confirmatory O&M air and wipe sampling.
- January 8, 2018: Retest of air samples taken December 14, 2017 following temporary control measures.
- March 28 and April 2, 2018: Confirmatory O&M air and wipe sampling.

This report will summarize the results of this testing and provide the results for the current round of confirmatory sampling, performed on June 21 and 22, 2018.

2 Scope of Testing and Methodology

2.1 PCB Indoor Air Sampling

Indoor air samples were collected in accordance with EPA Method TO-10A utilizing low-flow pumps. Indoor air samples were run for a minimum of 4 hours (240 minutes), during regular school hours, for each of the individual air sampling events. Ambient temperature and school temperature were measured during sampling. Quality assurance and quality control sampling included blanks and duplicate samples.

Indoor air samples were collected, properly labeled, and transferred to Phoenix Laboratories of Manchester, CT under the standard chain of custody for analysis by EPA 680(for homologs) with 3540C Soxhlet extraction.

Prior to the initial indoor air sampling event, Fuss & O'Neill staff reviewed the building construction to establish the different air handling systems and zones throughout the school. Unique ventilation zones observed throughout the school included:

- Locker Rooms: Two locker rooms (girls' and boys') located in the yellow wing are ventilated by an independent roof-top mounted air handling unit with ductwork present throughout the locker rooms, restrooms, shower areas, office and pool area.
- Gymnasium: The gymnasium located in the yellow wing is ventilated by an independent roof-top mounted air handling unit.
- Auditorium: The auditorium, located within the central hub of the school is ventilated by an independent roof-top mounted air handling unit.
- Classrooms, offices and hallways: Individual classrooms and offices throughout the school are ventilated by independent exhaust vents and fresh air intakes located at the base of each set of exterior windows at the perimeter wall of the school building.
- Administrative Area: The new administration area, located in the administration wing is ventilated by independent roof-top mounted air handling unit with ductwork present throughout the area above the suspended ceiling. The new administration area has been excluded from indoor air and surface wipe sampling events based on the date of construction.
- Portable Classrooms: Portable classrooms located adjacent to the red wing are ventilated by pad-mount air handling units with ductwork present above the suspended ceiling within each of the portable classroom units. Portable classrooms have been excluded from indoor air and surface wipe sampling events based on the date of construction.

Indoor air samples were distributed between each of the aforementioned ventilation configurations and spaces throughout the school to provide good spatial distribution for the analytical results. Only the school areas built prior to 1979 have been included in the scope of testing. Future rounds of air sampling have been similarly dispersed to ensure each ventilation zone is adequately tested.

2.2 PCB Wipe Sampling

Hexane wipe samples were collected in accordance with 40 CFR §761 Sub-Part P. Sufficient sample size of 100 square centimeters (100 cm²) was collected to ensure a detection limit that allows quantification of the data relative to the EPA advisory concentrations. Refer to *Appendix A* for Wipe Sampling Method. Quality assurance and quality control sampling will include blanks, and duplicate samples.

Surface wipe samples were collected, properly labeled, and transferred to Phoenix Laboratories of Manchester, CT under the standard chain of custody for EPA 8082 analysis with 3540C Soxhlet extraction.

2.3 Field Quality Assurance/Quality Control (QA/QC)

Field QA/QC protocol consisted of the collection of duplicate samples and field blanks for each media sampled. For a summary of the field blank results, see Table 3-1. For a summary of the duplicate sample results, see Table 3-2.

3 Action Levels and Controls

The goal of this indoor air and wipe sampling event was to determine if the PCBs present in the identified source materials were contributing to potential PCBs within indoor air and dust in the school by comparing detected PCB concentrations to EPA's advisory concentration limits and to demonstrate the effectiveness of the controls outlined in the JFK PCB O&M Plan. Analytical results for this round of indoor air and surface wipe sampling were reviewed by senior Fuss & O'Neill staff and communicated to the school.

Analytical results for the individual indoor air samples were compared to the following USEPA advisory concentration of **300 ng/m³** for students between 6 and 12 years of age. Analytical results for the individual horizontal surface hexane wipe samples were compared to the criteria of **≤ 1 µg/100 cm²** recommended by the EPA Region 1 PCB Coordinator and CTDEEP for Schools.

4 Initial Air and Wipe Sampling

4.1 Investigative Indoor Air Sampling Event

On May 25, 2017 and June 2, 2017, forty-six indoor air samples were collected over two indoor air sampling events. The air testing was originally performed on May 24 and 25, 2017, but the air samples collected on May 24 were processed using the incorrect extraction method by the laboratory. These samples were recollected from the same locations on June 2, 2017.

The results of the indoor air sampling performed on May 25 and June 2, 2017 are summarized as follows:

- Boy's Locker Room (D109) air sample contained 357 ng/m³ PCBs
- Main Gym (D107) air sample contained 97 ng/m³ PCBs
- Yellow Corridor (D106) air sample contained 55 ng/m³ PCBs
- Black Corridor (C113) air sample contained 50 ng/m³ PCBs
- Four samples were omitted due to equipment malfunction or the glass PUF vessel being destroyed by students during sampling.
- The rest of the air samples collected were reported as non-detect (PCB concentration was less than the laboratory reporting limit).

Based on the analytical results for the initial round of indoor air sampling, one exceedance of the EPA advisory threshold (300 ng/m³) for students between the ages of 6 and 12 was reported at a concentration of 357 ng/m³ PCBs within the boys' locker room.

4.2 Supplemental Investigative Indoor Air Sampling

Following the initial testing, supplemental sampling was conducted on June 23, 2017 to compare results from two different laboratories. Ten air samples were collected from five locations (two samples per location) and then sent to different labs. One indoor air sample for each location was packaged, labeled, and sent to ConTest Analytical Laboratories of East Longmeadow, Massachusetts and the second indoor air sample for each location was packaged, labeled, and sent to Phoenix Laboratories of Manchester, Connecticut.

The results of the air sampling performed on June 23, 2017 are summarized as follows:

- One sample taken from the Blue Corridor (G213) exceeded the EPA advisory threshold (300 ng/m³) for students between the ages of 6 and 12
- One sample taken from the Hub Corridor H109 was Non-detect
- The remaining eight samples had concentrations ranging from 71 ng/m³ to 250 ng/m³

Elevated levels of PCBs in the supplemental round of indoor air samples may be attributed to the decreased ventilation throughout the school. Exterior operational vent windows throughout the classrooms and offices within the JFK Middle School were observed closed during the June 23, 2017 event, most likely contributing to limited air movement throughout the JFK Middle School and elevated concentrations of PCBs due to a lack of fresh air.

Fuss & O'Neill found the results of the duplicate samples to be similar enough that both labs were considered adequate and opted to use Phoenix Environmental Laboratories of Manchester, Connecticut for future testing at the Site due to proximity.

A summary of the analytical results for the individual supplemental indoor air samples is included in the comprehensive table of sample results, as Table 1-2. Copies of the analytical laboratory report are included as *Appendix B* of this report.

4.3 Investigative Surface Wipes

On May 24 and 25 2017, Fuss & O'Neill conducted the initial surface wipe sampling event. Hexane wipe samples were collected from window sills associated with exterior window PCB caulking compound and flooring located directly beneath the interior masonry wall joints. Additional hexane wipe samples were collected from targeted horizontal surfaces within food preparation areas to include the kitchen and Food Lab classrooms. In total, twenty three wipes were collected including one suppiculate and one field blank.

The results of the initial wipe sampling event performed on May 2017 are summarized as follows:

- Five samples taken from window sills within the Administrative Wing, White Wing, and Blue Wing exceeded the project action level of 1 µg/100 cm²
- One sample taken from the floor adjacent to an interior expansion joint in the White Wing exceeded the action level of 1 µg/100 cm²
- For the six samples with exceedances, concentrations ranged from 1.1 to 1.4 µg/100 cm²
- Seventeen samples collected including the duplicate and blank sample were non-detect

Analytical results indicate that deteriorated fragments of the PCB containing materials were present in dust at several locations.

A summary of the analytical results for the individual supplemental indoor air samples is included in the comprehensive table of sample results, as Table 2-2. Copies of the analytical laboratory report are included as *Appendix B* of this report.

4.4 Supplemental Wipe Egress Study

On August 22, 2017, Fuss & O'Neill conducted supplemental wipe sampling focusing on the access points to the school. After determining that PCBs were present in the soil surrounding the school, sampling event was performed to determine if PCB contaminated dirt was being tracked into the school by students and staff. Thirty six wipe samples were collected from floor areas adjacent to exterior doors. The investigation also included some recessed floor mat areas by the main wing entryways furthest from the Hub.

Based on the analytical results for the hexane wipes collected from floors near egress areas, there were four exceedances of the advisory level of $\leq 1 \mu\text{g}/100 \text{ cm}^2$ recommended by the EPA Region 1 PCB Coordinator and CTDEEP for Schools. The results of the wipe sampling are summarized as follows:

- Four samples taken from the egresses in the Red Wing, Yellow Wing, Hub, and Green Wing exceeded the advisory threshold ($\leq 1 \mu\text{g}/100 \text{ cm}^2$) recommended by the EPA
- Thirty one samples were non-detect, including the field blanks and duplicate
- One sample was accidentally destroyed and had to be re-sampled on 8/23/2017. The result was also none detected.

Based on the results of the egress wipe sampling, several locations were identified where PCB contaminated dirt or dust was being tracked into the building. These locations were identified in the O&M Plan for thorough cleaning and rug removal and replacement.

5 Initiation of O&M Plan Quarterly Testing

During the summer vacation in 2017, Enfield school staff worked with abatement contractors to complete the “immediate action required” tasks outlined in the JFK PCB O&M Plan and BMPs. Tasks indicated in the JFK PCB O&M Plan and BMPs identified as “ongoing” are to be continuously performed during the academic school year.

The following paragraphs present a summary of the actions taken and controls implemented to reduce PCBs in indoor air, clean surface areas throughout the JFK Middle School, and prevent tracking of soils into the building, following correspondence with the EPA, CTDPH, and CTDEEP.

The Enfield Public Schools have implemented and completed the following controls for interior surfaces:

- Desks, counter tops and horizontal surfaces were wet wiped by Enfield school custodial staff;
- Surfaces located in the immediate vicinity of the window sills and unit ventilators where PCB containing caulk was identified were HEPA vacuumed and wet wiped by Enfield school custodial staff;
- Installation of a rigid hard barrier as an interim control system over the interior masonry wall control joints following the application of a two-part epoxy coating (Sika-62) to isolate the existing interior masonry control wall joints.
- Rugs and runners at the exterior doors were removed by Enfield school custodian staff for disposal; and
- Flooring surfaces in the immediate vicinity of exterior doors were HEPA vacuumed and wet wiped by Enfield school custodial staff.

The Enfield Public Schools have implemented the following ongoing controls for interior surfaces:

- Damp mopping of floor spaces each night

The Enfield Public Schools have implemented and completed the following controls for exterior landscaped areas:

- Loose caulking and glazing debris observed within the soils at the base of the façade was removed by an abatement contractor;
- Fencing has been installed at a distance of five feet from the façade to enclose the soils with PCB concentrations above 1 ppm and prevent direct contact with the PCB Bulk Product Waste and CTDEEP PCB regulated materials associated with the exterior windows and concrete sills. (Refer to Soil Sampling Report submitted under separate cover)

The Enfield Public Schools have implemented the following ongoing controls for exterior landscaped areas:

- Limited weed whacking to be completed at the building perimeter under damp conditions when school is not in session.
- Construction of fencing five feet out from the base of the school building at all seven spokes.

The Enfield Public Schools have implemented and completed the following controls for ventilation of interior areas:

- Replace existing unit ventilator and HVAC system air filters (to be changed quarterly);
- Troubleshoot and repair HVAC system problems for gymnasium, cafeteria, pool and locker room areas; and

- Alter HVAC controls to permit fans to run without heating to draw in fresh air.
- Thermostat set points to minimum position (63 degrees Fahrenheit)
- Continuous operation of unit ventilators in classrooms
- Continuous operation of central exhaust systems where applicable
- Optional use of open windows during school hours except when not feasible because of precipitation or cool temperatures and at discretion of staff to ensure comfort.

The Enfield Public Schools have implemented the following ongoing controls for ventilation of interior areas:

- Replace existing unit ventilator and HVAC system air filters with HEPA filters quarterly;
- Clean window-mounted air conditioner filters quarterly; and
- Continuous operation of unit ventilators in classrooms before and after occupancy of the school building.
- Continuous operation of central exhaust systems where applicable

After the completion of the cleaning, encapsulation, and initiation of the ongoing control measures, the first round of air and surface wipe sampling was scheduled for late August 2017, prior to the start of the school year.

6 Results of Previous O&M Air Sampling Events

In accordance with the JFK PCB O&M Plan, air sampling will take place at least four times a year (in August, December, March, and June) to collect a minimum of 90 air samples each school year. The first round of sampling outlined by the O&M Plan occurred in August 2017, followed by additional events in December 2017, April 2018, and the current round of testing completed in June 2018.

6.1 August 2017

On August 30, 2017, the first confirmatory indoor air sample event was conducted. Twenty four air samples, including one field blank and one duplicate sample, were collected to demonstrate the effectiveness of the implemented O&M Controls and BMPs.

Analytical results for the August 2017 round of confirmatory indoor air samples indicated that **PCBs were not detected** above the laboratory reporting limit. Based on the analytical results, the cleaning methods and controls implemented through the O&M Plan were effective in reducing the concentrations of PCBs within the interior spaces throughout the school.

6.2 December 2017

On December 14, 2017, twenty six air samples, including one field blank and one duplicate, were collected. Analytical results indicated that **two samples exceeded the advisory indoor air concentration** of 300 ng/m³ for students between the ages of 6 and 12. These samples were both taken from the Green Wing kitchen office area.

An additional air sampling event was performed on January 8, 2018 in response to temporary measures taken to reduce these concentrations. Additional cleaning, wiping, and fans were brought in to help vent the area. Fans were removed prior to resampling. Following the implementation of temporary changes, results of the air samples indicated **PCBs were not detected** above the laboratory reporting limit. The reduction in concentration indicates the interim control measures were effective.

6.3 April 2018

On April 2, 2018, twenty six confirmatory indoor air samples, including one blank and one duplicate, were collected. Analytical results indicated that although PCBs were detected in two samples, there were **no exceedances of the advisory indoor air concentration** of 300 ng/m³ for students between the ages of 6 and 12.

Two areas in the Yellow Wing Main Gym and Auxiliary Gym had levels of PCBs below the recommended limit, ranging from 106 to 137 ng/m³. The Gym area is the only space in the school where the interior control joints have not been completely encapsulated. This is the likely cause of the slightly elevated levels here compared with the rest of the school. However, because the levels were below the recommended limit, no corrective action needed to be taken.

A summary of the historical indoor air sample results is included in this report as Table 1-2. For more detailed information about past air sampling events, please refer to this table. The analytical laboratory reports are included as *Appendix B* of this report.

7 Results of Previous Surface Wipe sampling Events

In accordance with the JFK PCB O&M Plan, surface wipe sampling will be collected at indoor locations four times per year (in August, December, March, and June) to collect a minimum of 130 samples each school year. The first round of sampling outlined by the O&M Plan occurred in August 2017, followed by additional events in December 2017, April 2018, and the current round of testing completed in June 2018.

7.1 August 2017

On August 30, 2017, the first confirmatory surface wipe sample event was conducted. Thirty four wipe samples, including two duplicates and one blank, were collected to demonstrate the effectiveness of the implemented O&M Controls and BMPs. Analytical results indicated that **PCBs were not detected** above the laboratory reporting limit.

Based on the analytical results of the surface wipe sampling, the cleaning methods and controls implemented during August 2017 were effective in reducing the concentrations of PCBs within the interior spaces throughout the school.

7.2 December 2017

On December 13, 2017, thirty five surface wipe samples, including one duplicate and one blank, were collected. Analytical results indicated that PCBs **were not detected** above the laboratory reporting limit.

Based on the analytical results of the surface wipe sampling, the cleaning methods and controls implemented during August 2017 were effective in reducing the concentrations of PCBs within the interior spaces throughout the school.

7.3 March 2018

On March 28, 2018, thirty five surface wipe samples, including one duplicate and one blank, were collected. Analytical results indicated that PCBs **were not detected** above the laboratory reporting limit.

Based on the analytical results of the surface wipe sampling, the cleaning methods and controls implemented during August 2017 were effective in reducing the concentrations of PCBs within the interior spaces throughout the school.

A summary of the historical surface wipe sample results is included in this report as Table 2-2. For more detailed information about past wipe sampling events, please refer to this table. The analytical laboratory reports are included as *Appendix B* of this report.

8 Indoor Air Sampling Event: June 2018

On June 22, 2018, twenty-six indoor air samples, including one field blank and one duplicate sample, were collected to demonstrate the effectiveness of the Enfield JFK O&M Controls and BMPs implemented in August 2017. According to the analytical results of the air sampling, PCBs **were not detected** above the laboratory reporting limit.

Based on these results, the cleaning methods and controls implemented during August 2017 were effective in reducing the concentrations of PCBs within the interior spaces throughout the school.

The results of the current round of air samples are provided in Table 1-1 included with this report. For results of previous testing, see Table 1-2. Copies of the analytical laboratory report are included as Appendix B of this report

9 Surface Wipe Sampling Event: June 2018

On June 21, 2018, thirty-five surface wipe samples, including one field blank and one duplicate sample, were collected to demonstrate the effectiveness of the Enfield JFK O&M Controls and BMPs implemented in August 2017. Wipe samples were taken in interior spaces focusing on window sills and high traffic areas like exterior and interior doorways. According to the analytical results of the wipe sampling, PCBs **were not detected** above the laboratory reporting limit.

Based on these results, the cleaning methods and controls implemented during August 2017 were effective in reducing the concentrations of PCBs within the interior spaces throughout the school.

The results of the current round of wipe samples are provided in Table 2-1 included with this report. For results of previous testing, see Table 2-2. Copies of the analytical laboratory report are included as Appendix B of this report

10 Discussion and Conclusion

John F. Kennedy Middle School has PCB source materials present throughout the interior common spaces within (i.e. caulking compounds within interior masonry wall joints), at exterior windows and doors (exterior window caulking and glazing) throughout the original school building. PCBs were also reported at concentrations above 1 ppm in the soil outside of the school.

As mandated by the PCB O&M Plan, Fuss & O'Neill was to collect at least 90 air samples and 130 wipe samples per school year. As of June 2018, the first year of O&M Plan sampling was complete and we have reached these goals. In total, 105 air samples and 139 wipe samples have been collected since the implementation of the O&M Plan in August 2017.

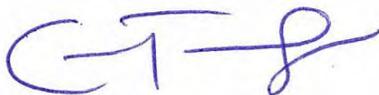
Following the implemented O&M Controls and BMPs, there have been no exceedances of the project action level of 1 µg/100 cm² PCBs in surface wipe samples and only two exceedances of the EPA Advisory limit of 300 ng/m³ PCBs in air samples. These air sample exceedances occurred in two samples taken from the Green Wing laundry/office area. The areas were retested shortly after following implementation of temporary control methods and the PCB concentration was then reported as none detected. Additional cleaning, wiping, and fans were brought in to help vent the area. Fans were removed prior to resampling.

In the most recent round of testing conducted in June 2018, all the samples collected were reported as non-detect, which indicates very low levels of PCBs (if any) present in the air and dust. Another round of O&M Plan testing is scheduled for August 2018, prior to the start of school.

Prior to the implementation of the O&M Plan, multiple exceedances for PCBs in surface wipes were detected and air concentrations above non-detect and air sample exceedances were much more common. Therefore, the results indicate the O&M Plan has been effective in reducing the concentrations of PCBs within the interior spaces throughout the school.

Report prepared by Environmental Technician, Kristina Snurkowski.

Reviewed by:



Carlos Texidor
Senior Project Manager



Robert L. May, Jr.
President

Tables

Table 1-1: Confirmatory Indoor Air Sample Results – June 2018

Sample ID	Sample Location	Flow Rate (L/m)			Duration(min)			Volume (L)	PCB Concentration	
		Start	End	Avg.	Start	End	Total		µg/m ³	ng/m ³
062218-01	Hub ISS Room H119	4.85	4.83	4.84	0739	1222	283	1370	ND	ND
062218-02	Hub Tech Ed TL-2/H108	4.82	4.87	4.845	0742	1226	284	1376	ND	ND
062218-03	Hub Corridor H109 (outside Admin)	4.75	4.76	4.755	0747	1228	281	1336	ND	ND
062218-04	Admin Conference Room 2 A118	4.82	4.83	4.825	0750	1231	281	1356	ND	ND
062218-05	Admin SPED Office A133	4.94	4.76	4.85	0755	1233	282	1368	ND	ND
062218-06	Admin Office A116	4.72	4.71	4.715	0759	1234	285	1344	ND	ND
062218-07	White Classroom 16W-a/G106	4.7	4.49	4.595	0803	1235	273	1254	ND	ND
062218-08	White Classroom 22W/G220	4.84	4.88	4.86	0810	1238	268	1302	ND	ND
062218-09	White Classroom 24W/G216	4.87	4.84	4.855	0814	1240	276	1340	ND	ND
062218-10	White Classroom 28W/G210	4.77	4.77	4.77	0818	1242	264	1259	ND	ND
062218-11	Green Custodial Office F105	4.95	4.74	4.845	0822	1245	263	1274	ND	ND
062218-12	Green Faculty Lounge F117	4.89	4.83	4.86	0826	1246	260	1264	ND	ND
062218-13	Blue Classroom 11B/E123	4.8	4.71	4.755	0831	1252	261	1241	ND	ND
062218-14	Blue Classroom 16B/E105	4.84	4.82	4.83	0835	1254	259	1251	ND	ND
062218-15	Blue Classroom 15B/E114	4.72	4.67	4.695	0837	1255	258	1211	ND	ND
062218-16	Blue Classroom 22B/E220	4.7	4.65	4.675	0839	1258	254	1187	ND	ND
062218-17	Blue Classroom 26B/E206	4.72	4.67	4.695	0846	1300	254	1193	ND	ND
062218-18	Yellow Music Room 2/D134	4.96	4.88	4.92	0847	1301	254	1250	ND	ND
062218-19	Black FACS Food Lab 37/C109	4.73	4.4	4.565	0850	1304	254	1160	ND	ND
062218-20	Black Classroom 39/C112	4.74	4.67	4.705	0853	1306	253	1190	ND	ND
062218-21	Red Classroom 17R/B108	4.54	4.53	4.535	0900	1309	259	1175	ND	ND
062218-22	Red Classroom 13R/B118	4.78	4.76	4.77	0901	1310	259	1235	ND	ND
062218-23	Red Classroom 15R/B114	4.83	4.81	4.82	0907	1313	256	1234	ND	ND
062218-24	Red Classroom 22R/B220	4.76	4.76	4.76	0909	1316	255	1214	ND	ND
062218-25	Duplicate - 13R/B118	4.62	4.62	4.62	0902	1311	259	1197	ND	ND
062218-26	Field Blank	0	0	0	N/A	N/A	0	0	ND	ND

ND = None detected above laboratory reporting limit

Table 1-2: Historical Indoor Air Sample Results

Sample ID	Sample Location	Date	Flow Rate (lpm)			Duration(min)			Volume(L)	PCB Concentration	
			Start	End	Avg.	Start	End	Total		µg/m ³	ng/m ³
Air Sample Results - May 25, 2017											
20170088.A2E - Report Dated July 14, 2017											
PCB-048	Green Kitchen F109	5/25/2017	3.89	3.95	3.92	9:02	15:00	358	1404	ND	ND
PCB-049	Green Kitchen F109	5/25/2017	4.04	3.92	3.98	9:04	15:02	358	1426	ND	ND
PCB-050	Green Corridor F116	5/25/2017	3.90	3.87	3.88	9:10	15:04	354	1375	ND	ND
PCB-051	White Classroom 14W/G118	5/25/2017	3.95	3.91	3.93	9:15	15:10	355	1396	ND	ND
PCB-052	White Corridor G213	5/25/2017	4.34	n/a	n/a	9:26	n/a	n/a	n/a	*	*
PCB-053	White Classroom 29W/G212	5/25/2017	3.84	3.83	3.84	9:35	15:20	345	1324	ND	ND
PCB-054	Admin Guidance Office A113	5/25/2017	4.17	4.12	4.14	9:48	15:25	337	1397	ND	ND
PCB-055	Admin Corridor A125	5/25/2017	4.14	4.09	4.12	9:56	15:26	330	1359	ND	ND
PCB-056	Red Classroom 16R/B105	5/25/2017	3.96	3.97	3.96	10:00	15:30	330	1308	ND	ND
PCB-057	Red Corridor B213	5/25/2017	3.62	3.97	3.80	10:06	15:32	326	1238	ND	ND
PCB-058	Red Classroom 26R/B206	5/25/2017	3.91	4.00	3.96	10:13	15:40	327	1294	ND	ND
PCB-059	Black FACS Food Lab 37/C109	5/25/2017	3.86	4.01	3.93	10:23	15:43	320	1259	ND	ND
PCB-060	Black Corridor C113	5/25/2017	3.96	3.89	3.93	10:30	15:46	316	1240	ND	ND
PCB-061	Yellow Music Room 2/D134	5/25/2017	4.04	4.06	4.05	10:43	15:50	307	1244	ND	ND
PCB-062	Yellow Boy's Locker Room D109	5/25/2017	3.79	3.81	3.80	10:46	15:52	306	1163	0.357	357
PCB-063	Blue Corridor E113	5/25/2017	3.10	4.11	3.60	11:06	16:00	294	1059	ND	ND
PCB-064	Blue Classroom 19B/E112	5/25/2017	4.11	3.74	3.92	11:13	16:02	289	1134	ND	ND
PCB-065	Blue Classroom 29B/E212	5/25/2017	3.16	3.83	3.50	11:31	16:10	279	975	ND	ND
PCB-066	Blue Corridor G213	5/25/2017	3.95	3.84	3.90	11:37	16:14	277	1079	ND	ND
PCB-067	Hub Tech Ed TL-2/H108	5/25/2017	3.65	3.91	3.78	11:46	16:17	271	1024	ND	ND
PCB-084	Field Blank	5/25/2017	n/a	n/a	0	n/a	n/a	n/a	0	ND	ND
Air Sample Results - June 2, 2017											
20170088.A2E - Report Dated July 14, 2017											
PCB-020R	Hub Auditorium H101	6/2/2017	4.038	4.081	4.06	7:45	13:40	355	1441	ND	ND
PCB-021R	Hub Classroom Hub 2/H117	6/2/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	*	*

Sample ID	Sample Location	Date	Flow Rate (lpm)			Duration(min)			Volume(L)	PCB Concentration	
			Start	End	Avg.	Start	End	Total		µg/m ³	ng/m ³
PCB-022R	Green Faculty Lounge F117	6/2/2017	3.945	4.045	4	7:53	13:42	349	1394	ND	ND
PCB-023R	Green Corridor F116	6/2/2017	4.123	4.126	4.12	7:56	13:43	347	1431	ND	ND
PCB-024R	Blue Classroom 14B/E116	6/2/2017	4.003	3.955	3.98	8:04	13:50	346	1377	ND	ND
PCB-025R	Blue Classroom 24B/E216	6/2/2017	4.123	4.073	4.1	8:06	13:52	346	1418	ND	ND
PCB-026R	Blue Corridor E113	6/2/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	*	*
PCB-027R	White Classroom 11W/G125	6/2/2017	3.907	3.938	3.92	8:14	14:00	346	1357	ND	ND
PCB-028R	White Corridor G115	6/2/2017	3.967	3.996	3.98	8:16	14:02	346	1378	ND	ND
PCB-029R	White Classroom 19W/G114	6/2/2017	4.237	4.294	4.27	8:18	14:05	347	1480	ND	ND
PCB-030R	White Classroom 23W/G218	6/2/2017	4.008	4.009	4.01	8:20	14:08	348	1395	ND	ND
PCB-031R	Yellow Corridor D106	6/2/2017	4.44	4.421	4.43	8:32	14:15	343	1520	0.055	55
PCB-032R	Yellow Main Gym D107	6/2/2017	4.049	4.006	4.03	8:40	14:16	336	1353	0.097	97
PCB-033R	Yellow Music Room 1/D131	6/2/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	*	*
PCB-034R	Black FACS Food Lab 36/C107	6/2/2017	4.033	4.006	4.02	8:50	14:26	336	1351	ND	ND
PCB-035R	Admin Classroom ADM 1/A121	6/2/2017	4.076	4.11	4.09	8:51	14:32	341	1396	ND	ND
PCB-036R	Admin Corridor A125	6/2/2017	4.075	4.116	4.1	9:02	14:35	333	1364	ND	ND
PCB-037R	Admin STEM Office A135	6/2/2017	4.067	4.112	4.09	9:05	14:36	331	1354	ND	ND
PCB-038R	Red Corridor B113	6/2/2017	4.135	4.114	4.12	9:15	14:42	327	1349	ND	ND
PCB-039R	Red Classroom 11R/B123	6/2/2017	4.228	4.28	4.25	9:10	14:40	330	1404	ND	ND
PCB-040R	Red Classroom 25R/B214	6/2/2017	4.124	4.138	4.13	9:20	14:45	325	1343	ND	ND
PCB-085	Yellow Girl's Locker Room D124	6/2/2017	4.107	3.941	4.02	8:45	14:20	335	1348	ND	ND
PCB-086	White Classroom 21W/G223	6/2/2017	3.906	3.891	3.9	8:22	14:12	350	1364	ND	ND
PCB-087	Red Classroom 21R/B223	6/2/2017	3.992	3.908	3.95	9:25	14:47	322	1272	ND	ND
PCB-088	Black Music Classroom 31/C119	6/2/2017	4.255	4.242	4.25	9:30	15:15	345	1466	ND	ND
PCB-089	Black Corridor C113	6/2/2017	4.033	4.06	4.05	8:50	14:30	340	1376	0.05	50
Air Sample Results - June 23, 2017											
20170088.A2E - Report Dated July 14, 2017											
PCB-090	Hub Corridor H109 (Contest)	6/23/2017	3.997	3.879	3.938	11:56	17:00	304	1197	ND	ND
PCB-091	Hub Corridor H109 (Phoenix)	6/23/2017	4.114	4.024	4.069	11:59	17:02	303	1233	0.25	250
PCB-092	Yellow Corridor D106 (Phoenix)	6/23/2017	3.897	3.784	3.841	12:05	17:06	301	1156	0.211	211

Sample ID	Sample Location	Date	Flow Rate (lpm)			Duration(min)			Volume(L)	PCB Concentration	
			Start	End	Avg.	Start	End	Total		µg/m ³	ng/m ³
PCB-093	Yellow Corridor D106 (Contest)	6/23/2017	3.964	3.981	3.973	12:03	17:08	305	1212	0.25	250
PCB-094	Blue Corridor G213 (Contest)	6/23/2017	4.009	3.922	3.966	12:13	17:16	303	1202	0.23	230
PCB-095	Blue Corridor G213 (Phoenix)	6/23/2017	3.945	3.962	3.954	12:16	17:17	301	1190	0.422	422
PCB-096	Green Kitchen F109 (Contest)	6/23/2017	3.99	3.974	3.982	12:23	17:26	303	1207	0.071	71
PCB-097	Green Kitchen F109 (Phoenix)	6/23/2017	3.925	3.958	3.942	12:24	17:27	303	1194	0.085	85
PCB-098	White Corridor G213 (Contest)	6/23/2017	3.745	3.794	3.77	12:34	17:36	302	1139	0.14	140
PCB-099	White Corridor G213 (Phoenix)	6/23/2017	3.798	3.972	3.885	12:32	17:37	305	1185	0.149	149
Air Sample Results - August 30, 2017											
20170088.A3E - Report Dated September 13, 2017											
JFK-271	Hub Corridor H104	8/30/2017	3.908	4.044	3.976	10:53	17:50	417	1658	ND	ND
JFK-272	Hub Classroom Hub 2/H117	8/30/2017	3.783	3.925	3.879	10:56	17:54	418	1621	ND	ND
JFK-273	Admin Health A130	8/30/2017	3.806	3.953	3.88	10:59	17:58	419	1626	ND	ND
JFK-274	Admin Conference Room 2 A118	8/30/2017	4.502	4.1	4.3	11:03	18:03	420	1806	ND	ND
JFK-275	Admin School Psychologist A139	8/30/2017	3.917	4.012	3.97	11:06	18:07	421	1669	ND	ND
JFK-276	White Classroom 13W/G120	8/30/2017	3.936	3.973	3.955	11:09	18:13	424	1677	ND	ND
JFK-277	White Classroom 18W/G112	8/30/2017	3.9	3.92	3.91	11:13	18:17	424	1658	ND	ND
JFK-278	White Classroom 26W/G206	8/30/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	*	*
JFK-279	White Classroom 25W/G214	8/30/2017	3.967	3.948	3.958	11:19	18:27	428	1694	ND	ND
JFK-280	Green West Cafeteria F107	8/30/2017	3.874	3.917	3.896	11:22	18:32	430	1675	ND	ND
JFK-281	Green East Cafeteria F107	8/30/2017	3.834	3.879	3.857	11:25	18:37	408	1574	ND	ND
JFK-282	Blue Classroom 17B/E108	8/30/2017	3.824	3.872	3.848	11:37	18:46	411	1582	ND	ND
JFK-283	Blue Corridor G213	8/30/2017	3.986	4.037	4.012	11:39	18:57	438	1757	ND	ND
JFK-284	Blue Classroom 21B/E223	8/30/2017	3.937	4.012	3.975	11:40	17:00	440	1749	ND	ND
JFK-285	Yellow Classroom 10B/D102	8/30/2017	4.117	4.148	4.133	11:50	19:08	438	1810	ND	ND
JFK-286	Yellow Music Room 1/D131	8/30/2017	3.902	3.916	3.909	11:54	19:22	448	1751	ND	ND
JFK-287	Yellow Corridor D106	8/30/2017	3.553	3.972	3.763	11:52	19:17	445	1675	ND	ND
JFK-288	Yellow Boy's Locker Room D109	8/30/2017	3.823	3.851	3.837	11:57	19:14	437	1677	ND	ND
JFK-289	Black Classroom 35/C106	8/30/2017	3.559	3.501	3.53	12:10	19:26	436	1539	ND	ND
JFK-290	Black Tech Ed 32/C118	8/30/2017	4.178	3.801	3.99	12:20	19:30	430	1716	ND	ND

Sample ID	Sample Location	Date	Flow Rate (lpm)			Duration(min)			Volume(L)	PCB Concentration	
			Start	End	Avg.	Start	End	Total		µg/m ³	ng/m ³
JFK-291	Red Classroom 27R/B208	8/30/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	*	*
JFK-292	Red Classroom 29R/B212	8/30/2017	3.454	3.532	3.49	12:30	19:40	430	1502	ND	ND
JFK-293	Duplicate - Blue Classroom 17B/E108	8/30/2017	3.618	3.761	3.69	11:38	18:48	430	1587	ND	ND
JFK-328	Field Blank	8/30/2017	n/a	n/a	0	n/a	n/a	n/a	0	ND	ND
Air Sample Results - December 2017 and January 2018											
20170088.A6E - Report Dated January 29, 2018											
121417-01	Hub Classroom Hub 3/H116	12/14/2017	4.75	4.85	4.80	1000	1405	245	1176	ND	ND
121417-02	Hub Computer Tech TL-1/H107	12/14/2017	4.90	4.98	4.94	1005	1411	246	1215	ND	ND
121417-03	Admin Health A130	12/14/2017	4.60	4.97	4.79	1010	1415	245	1172	ND	ND
121417-04	Admin Social Worker A137	12/14/2017	4.60	4.58	4.59	1025	1426	246	1129	ND	ND
121417-05	White Classroom 17W/G110	12/14/2017	4.50	4.43	4.47	1030	1433	248	1107	ND	ND
121417-06	White Classroom 15W/G116	12/14/2017	4.80	4.56	4.68	1034	1435	241	1128	ND	ND
121417-07	White Classroom 27W/G208	12/14/2017	4.50	4.38	4.44	1039	1440	241	1070	ND	ND
121417-08	Green Storage F103	12/14/2017	4.30	4.56	4.43	1046	1446	240	1063	ND	ND
121417-09	Blue Classroom 12B/E120	12/14/2017	4.67	4.43	4.55	1050	1451	241	1097	ND	ND
121417-10	Blue Classroom 18B/E110	12/14/2017	4.63	4.43	4.53	1053	1454	241	1092	ND	ND
121417-11	Blue Classroom 23B/E218	12/14/2017	4.64	4.53	4.59	1056	1458	242	1110	ND	ND
121417-12	Blue Classroom 27B/E208	12/14/2017	4.69	4.48	4.59	1058	1501	243	1114	ND	ND
121417-13	Yellow Social Worker Office D101	12/14/2017	4.62	4.67	4.65	1100	1509	249	1157	ND	ND
121417-14	Yellow Girl's Locker Rm Office D130	12/14/2017	4.61	4.75	4.68	1114	1514	240	1123	ND	ND
121417-15	Yellow Boy's Locker Room Office D119	12/14/2017	4.64	4.55	4.60	1114	1514	240	1103	ND	ND
121417-16	Black Music Room 3/C120	12/14/2017	4.58	4.63	4.61	1123	1524	241	1110	ND	ND
121417-17	Black Wing Tech Ed C102	12/14/2017	4.72	4.53	4.63	1120	1531	251	1161	ND	ND
121417-18	Black Tech Ed 33/C116	12/14/2017	4.73	4.57	4.65	1125	1535	250	1163	ND	ND
121417-19	Red Classroom 12R/B120	12/14/2017	4.72	4.66	4.69	1128	1539	251	1177	ND	ND
121417-20	Red Classroom 18R/B110	12/14/2017	4.72	4.10	4.41	1129	1553	264	1164	ND	ND

Sample ID	Sample Location	Date	Flow Rate (lpm)			Duration(min)			Volume(L)	PCB Concentration	
			Start	End	Avg.	Start	End	Total		µg/m ³	ng/m ³
121417-21	Red Classroom 23R/B218	12/14/2017	4.73	4.58	4.66	1132	1554	262	1220	ND	ND
121417-22	Red Classroom 28R/B210	12/14/2017	4.72	4.74	4.73	1135	1600	265	1253	ND	ND
121417-23	Green Kitchen F113/F114	12/14/2017	4.98	4.94	4.96	1150	1609	259	1285	1.124	1124
121417-24	Duplicate - Green Kitchen F113/F114	12/14/2017	4.96	4.98	4.97	1151	1609	258	1282	0.32	320
121417-25	Field Blank	12/14/2017	0.00	0.00	0.00	-	-	0	0	ND	ND
121417-26	Field Blank	12/14/2017	0.00	0.00	0.00	-	-	0	0	ND	ND
010818-01	Green Kitchen Laundry F114	1/8/2018	4.04	4	4.02	1102	1505	250	1005	ND	ND
010818-02	Green Kitchen Office F113	1/8/2018	4.24	4.2	4.19	1106	1516	243	1018	ND	ND
010818-03	Field Blank	1/8/2018	0	0	0	-	-	0	0	ND	ND
Air Sample Results - April 2, 2018											
20170088.A9E - Report Dated April 18, 2018											
040218-01	Hub Technology Office H105	4/2/2018	4.70	4.70	4.70	8:00	12:03	243	1142	ND	ND
040218-02	Hub Corridor H104	4/2/2018	4.70	4.60	4.65	8:03	12:06	243	1130	ND	ND
040218-03	Hub Corridor H109	4/2/2018	4.50	4.70	4.60	8:06	12:08	242	1113	ND	ND
040218-04	Duplicate - Hub Corridor H109	4/2/2018	4.70	4.70	4.70	8:08	12:09	241	1133	ND	ND
040218-05	Admin Guidance Coordinator/Psychologist A136	4/2/2018	4.70	4.70	4.70	8:13	12:14	241	1133	ND	ND
040218-06	Admin Office A116	4/2/2018	4.70	4.60	4.65	8:15	12:16	241	1121	*	*
040218-07	Admin Conference Room 3 A119	4/2/2018	4.70	4.70	4.70	8:21	12:22	241	1133	ND	ND
040218-08	White Secretary Office G127	4/2/2018	4.80	4.70	4.75	8:25	12:26	241	1145	ND	ND
040218-09	White Classroom 16W-b/G105	4/2/2018	4.70	4.80	4.75	8:30	12:32	242	1150	ND	ND
040218-10	White Boys G202	4/2/2018	4.70	4.70	4.70	8:35	12:36	241	1133	ND	ND
040218-11	Green Faculty Dining F108	4/2/2018	4.70	4.70	4.70	8:41	12:44	243	1142	ND	ND
040218-12	Green Women's F118	4/2/2018	4.80	4.80	4.80	8:44	12:47	243	1166	ND	ND
040218-13	Blue Classroom 13B/E118	4/2/2018	4.70	4.70	4.70	8:48	12:50	242	1137	ND	ND
040218-14	Blue Classroom 28B/E210	4/2/2018	4.90	4.80	4.85	8:54	12:55	241	1169	ND	ND
040218-15	Blue Classroom 25B/E214	4/2/2018	4.80	4.70	4.75	8:56	12:57	241	1145	ND	ND
040218-16	Yellow Main Gym D107	4/2/2018	4.70	4.60	4.65	9:08	13:09	241	1121	0.137	137

Sample ID	Sample Location	Date	Flow Rate (lpm)			Duration(min)			Volume(L)	PCB Concentration	
			Start	End	Avg.	Start	End	Total		µg/m ³	ng/m ³
040218-17	Yellow Aux Gym D108	4/2/2018	4.60	4.60	4.60	9:11	13:13	242	1113	0.106	106
040218-18	Black Sewing Lab 38/C110	4/2/2018	4.80	4.70	4.75	9:17	13:21	244	1159	ND	ND
040218-19	Duplicate - Black Sewing Lab 38/C110	4/2/2018	4.70	4.60	4.65	9:17	13:21	244	1135	ND	ND
040218-20	Black Classroom 40/C114	4/2/2018	4.80	4.90	4.85	9:22	13:26	244	1183	ND	ND
040218-21	Black Classroom 34/C115	4/2/2018	4.90	4.90	4.90	9:26	13:32	246	1205	ND	ND
040218-22	Red Classroom 19R/B112	4/2/2018	4.80	4.70	4.75	9:31	13:40	249	1183	ND	ND
040218-23	Red Classroom 14R/B116	4/2/2018	4.80	4.70	4.75	9:33	13:45	252	1197	ND	ND
040218-24	Red Assistant Principal Office B126	4/2/2018	4.70	4.70	4.70	9:36	13:48	252	1184	ND	ND
040218-25	Red Classroom 24R/B216	4/2/2018	4.70	4.70	4.70	9:40	13:49	249	1170	ND	ND
040218-26	Field Blank	4/2/2018	0.00	0.00	0.00	n/a	n/a	0	0	ND	ND

ND = None detected above laboratory reporting limit

* = Sample destroyed accidentally or equipment malfunction occurred

Note: Sample location names have been updated from previous reports for greater clarity following data review.

Table 2-1: Confirmatory Surface Wipe Results – June 2018

Sample ID	Sample Location	Surface	Total PCBs (µg/100 cm ²)
062118-01	Hub Classroom Hub 2/H117	Window sill	ND
062118-02	Hub ISS Room H119	Window sill	ND
062118-03	Hub Auditorium H101	Floor	ND
062118-04	Hub Stage H120	Floor	ND
062118-05	Hub Tech Ed TL-2/H108	Floor	ND
062118-06	Hub Corridor H109	Floor by exterior door	ND
062118-07	Admin Conference Room 2 A118	Window sill	ND
062118-08	Admin SPED Office A133	Window sill	ND
062118-09	Admin Guidance Office A113	Window sill	ND
062118-10	White Classroom 13W/G120	Window sill	ND
062118-11	White Classroom 14W/G118	Window sill	ND

Sample ID	Sample Location	Surface	Total PCBs ($\mu\text{g}/100 \text{ cm}^2$)
062118-12	White Classroom 18W/G112	Window sill	ND
062118-13	White Classroom 21W/G223	Window sill	ND
062118-14	White Classroom 26W/G206	Window sill	ND
062118-15	White Classroom 25W/G214	Window sill	ND
062118-16	Green Custodial Office F105	Floor by exterior door	ND
062118-17	Blue Classroom 11B/E123	Window sill	ND
062118-18	Blue Classroom 16B/E105	Window sill	ND
062118-19	Blue Classroom 17B/E108	Window sill	ND
062118-20	Blue Classroom 14B/E116	Window sill	ND
062118-21	Blue Classroom 21B/E223	Window sill	ND
062118-22	Yellow Music Room 2/D134	Window sill	ND
062118-23	Yellow SPED Classroom 10B/D102	Window sill	ND
062118-24	Yellow Music Room 1/D131	Window sill	ND
062118-25	Black Music Classroom 31/C119	Window sill	ND
062118-26	Black Classroom 35/C106	Window sill	ND
062118-27	Red Classroom 11R/B123	Window sill	ND
062118-28	Red Classroom 17R/B108	Window sill	ND
062118-29	Red Classroom 21R/B223	Window sill	ND
062118-30	Red Classroom 27R/B208	Window sill	ND
062118-31	Red Classroom 28R/B210	Window sill	ND
062118-32	Red Classroom 25R/B214	Window sill	ND
062118-33	Red Classroom 29R/B212	Window sill	ND
062118-34	Duplicate - 26W/G206	Window sill	ND
062118-35	Field Blank	N/A	ND

ND = None Detected above laboratory reporting limit

Table 2-2: Historical Surface Wipe Results

Sample ID	Sample Location	Surface	Sample Date	Total PCBs µg/100 cm ²
Wipe Sample Results - May 2017				
20170088.A2E - Report Dated July 14, 2017				
PCB-041	Hub Corridor H109	Floor at base of expansion joint	5/24/2017	ND
PCB-042	White Corridor G115	Floor at base of expansion joint	5/24/2017	1.1
PCB-043	White Classroom 11W/G125	Window Sill	5/24/2017	1.3
PCB-044	White Classroom 19W/G114	Window Sill	5/24/2017	1.1
PCB-045	Admin STEM Office A135	Window Sill	5/24/2017	1.1
PCB-046	Admin Classroom ADM 1/A121	Window Sill	5/24/2017	1.4
PCB-047	Blue Classroom 24B/E216	Window Sill	5/24/2017	1.2
PCB-068	Green Kitchen F109	Floor	5/25/2017	ND
PCB-069	Green Kitchen F109	Counter at window	5/25/2017	ND
PCB-070	Green Kitchen F109	Counter at cashier	5/25/2017	ND
PCB-071	Green Kitchen Office F113	Desk in Manger's Office	5/25/2017	ND
PCB-072	Red Classroom 16R/B105	Window Sill	5/25/2017	ND
PCB-073	Red Corridor B113	Floor at base of expansion joint	5/25/2017	ND
PCB-074	Black FACS Food Lab 37/C109	Counter at window	5/25/2017	ND
PCB-075	Black FACS Food Lab 37/C109	Floor	5/25/2017	ND
PCB-076	Black FACS Food Lab 37/C109	Counter	5/25/2017	ND
PCB-077	Black FACS Food Lab 37/C109	Desk/Table	5/25/2017	ND
PCB-078	Blue Classroom 29B/E212	Window Sill	5/25/2017	ND
PCB-079	Red Classroom 26R/B206	Window Sill	5/25/2017	ND
PCB-080	Black Corridor C113	Floor at base of expansion joint	5/25/2017	ND
PCB-081	Field Blank	N/A	5/25/2017	ND
PCB-082D	Duplicate - Red Classroom 26R/B206	Window Sill	5/25/2017	ND
PCB-083	Black Corridor C113	Floor at base of expansion joint	5/25/2017	ND
Wipe Sample Results - August 22, 2017				
20170088.A4E - Report Dated August 18, 2017				
082217GI-01	White Stair Ground Floor G-ST1	Floor by exterior door	8/22/2017	ND

Sample ID	Sample Location	Surface	Sample Date	Total PCBs µg/100 cm ²
082217GI-02	White Corridor G115	Floor by exterior door	8/22/2017	ND
082217GI-03	White Stair Ground Floor G-ST2	Floor by exterior door	8/22/2017	ND
082217GI-04	Admin Passage A132	Floor by exterior door	8/22/2017	ND
082217GI-05	Admin Main Entrance A100	Floor by exterior door	8/22/2017	ND
082217GI-06	Red Stair Ground Floor B-ST1	Floor by exterior door	8/22/2017	ND
082217GI-07	Red Corridor B113	Floor by exterior door	8/22/2017	ND
082217GI-08	Red Stair Ground Floor B-ST2	Floor by exterior door	8/22/2017	1.2
082217GI-09	Black Tech Ed 32/C118	Floor by exterior door	8/22/2017	ND
082217GI-10	Black FACS Food Lab 36/C107	Floor by exterior door	8/22/2017	ND
082217GI-11	Black FACS Food Lab 37/C109	Floor by exterior door	8/22/2017	ND
082217GI-12	Black Sewing Lab 38/C110	Floor by exterior door	8/22/2017	ND
082217GI-13	Black Tech Ed 33/C116	Floor by exterior door	8/22/2017	ND
082217GI-14	Black Corridor C113	Floor by exterior door	8/22/2017	ND
082217GI-15	Black Classroom 39/C112	Floor by exterior door	8/22/2017	ND
082217GI-16	Hub Corridor H109 Door 13	Floor by exterior door	8/22/2017	ND
082217GI-17	Yellow Corridor D106	Floor by exterior door	8/22/2017	ND
082217GI-18	Yellow Main Gym D107	Floor by exterior door	8/22/2017	ND
082217GI-19	Yellow Main Gym D107	Floor by exterior door	8/23/2018	*
082217GI-20	Yellow Aux Gym D108	Floor by exterior door	8/22/2017	ND
082217GI-21	Yellow Corridor D106	Floor by exterior door	8/22/2017	ND
082217GI-22	Yellow Boy's Locker Room D109	Floor by exterior door	8/22/2017	ND
082217GI-23	Yellow Girl's Locker Room D124	Floor by exterior door	8/22/2017	1.1
082217GI-24	Blue Stair Ground Floor E-ST1	Floor by exterior door	8/22/2017	4.2
082217GI-25	Blue Corridor E113	Floor by exterior door	8/22/2017	ND
082217GI-26	Blue Stair Ground Floor E-ST2	Floor by exterior door	8/22/2017	ND
082217GI-27	Hub Corridor H104 Door 25	Floor by exterior door	8/22/2017	9.7
082217GI-28	Green Storage F102	Floor by exterior door	8/22/2017	1.1
082217GI-29	Green Custodial Office F105	Floor by exterior door	8/22/2017	ND
082217GI-30	Green Boiler Room F104	Floor by exterior door	8/22/2017	ND

Sample ID	Sample Location	Surface	Sample Date	Total PCBs µg/100 cm ²
082217GI-31	Green Kitchen Office F113	Floor by exterior door	8/22/2017	ND
082217GI-32	Green East Cafeteria F107	Floor by exterior door	8/22/2017	ND
082217GI-33	Green Corridor F116	Floor by exterior door	8/22/2017	ND
082217GI-33 Dup	Duplicate - Green Corridor F117	Floor by exterior door	8/22/2017	ND
082217GI-34	Field Blank	N/A	8/22/2017	ND
082217GI-35	Field Blank	N/A	8/22/2017	ND
JFK-140A	Yellow Main Gym D107 (resample of 082217GI-19)	Floor by exterior door	8/23/2018	ND
Wipe Sample Results - August 30, 2017				
20170088.A3E - Report Dated September 13, 2017				
JFK-294	Admin Classroom ADM 1/A121	Window Sill	8/30/2017	ND
JFK-295	Admin STEM Office A135	Window Sill	8/30/2017	ND
JFK-296	White Classroom 11W/G125	Window Sill	8/30/2017	ND
JFK-297	White Corridor G115	Floor at base of expansion joint	8/30/2017	ND
JFK-298	White Classroom 19W/G114	Window Sill	8/30/2017	ND
JFK-299	White Classroom 28W/G210	Window Sill	8/30/2017	ND
JFK-300	Green Storage F102	Window Sill	8/30/2017	ND
JFK-301	Duplicate - Green Storage F102	Window Sill	8/30/2017	ND
JFK-302	Green Corridor F116	Floor at base of expansion joint	8/30/2017	ND
JFK-303	Green West Cafeteria F107	Window Sill	8/30/2017	ND
JFK-304	Green East Cafeteria F107	Floor by exterior door	8/30/2017	ND
JFK-305	Green Faculty Lounge F117	Window Sill	8/30/2017	ND
JFK-306	Blue Corridor E113	Floor at base of expansion joint	8/30/2017	ND
JFK-307	Blue Stair Ground Floor E-ST1	Floor	8/30/2017	ND
JFK-308	Blue Stair 1st Floor E-ST1	Floor	8/30/2017	ND
JFK-309	Blue Corridor E113	Floor at base of expansion joint	8/30/2017	ND
JFK-310	Blue Corridor G213	Floor at base of expansion joint	8/30/2017	ND
JFK-311	Blue Classroom 24B/E216	Window Sill	8/30/2017	ND
JFK-312	Yellow Corridor D106	Floor by exterior door	8/30/2017	ND

Sample ID	Sample Location	Surface	Sample Date	Total PCBs µg/100 cm ²
JFK-313	Yellow Girl's Locker Room D124	Floor by exterior door	8/30/2017	ND
JFK-314	Yellow Girl's Locker Room D124 Door 21	Floor by exterior door	8/30/2017	ND
JFK-315	Yellow Boy's Locker Room Office D119	Floor	8/30/2017	ND
JFK-316	Black Classroom 39/C112	Window Sill	8/30/2017	ND
JFK-317	Red Stair Ground Floor B-ST1	Floor	8/30/2017	ND
JFK-318	Red Stair 1st Floor B-ST2	Floor	8/30/2017	ND
JFK-319	Red Stair Ground Floor B-ST2	Floor by exterior door	8/30/2017	ND
JFK-320	Red Corridor B113	Floor at base of expansion joint	8/30/2017	ND
JFK-321	Red Corridor B213	Floor at base of expansion joint	8/30/2017	ND
JFK-322D	Duplicate - Red Corridor B213	Floor by expansion joint	8/30/2017	ND
JFK-323	Hub Corridor H104	Floor	8/30/2017	ND
JFK-324	Hub Corridor H104 Door 25	Floor by exterior door	8/30/2017	ND
JFK-325	Hub Corridor H109	Floor	8/30/2017	ND
JFK-326	Hub Corridor H109	Floor	8/30/2017	ND
JFK-327	Field Blank	N/A	8/30/2017	ND
Wipe Sample Results - December 13, 2017				
20170088.A6E - Report Dated January 29, 2018				
121317-01	Green Wing Storage Rm (F102)	Floor by exterior door	12/13/2017	ND
121317-02	Green Wing Kitchen Office (F113)	Floor by exterior door	12/13/2017	ND
121317-03	Blue Wing 12B (E120)	Window Sill	12/13/2017	ND
121317-04	Blue Wing 18B (E110)	Window Sill	12/13/2017	ND
121317-05	Blue Wing 15B (E114)	Window Sill	12/13/2017	ND
121317-06	Blue Wing 16B (E105)	Window Sill	12/13/2017	ND
121317-07	Blue Wing 26B (E206)	Window Sill	12/13/2017	ND
121317-08	Blue Wing 27B (E208)	Window Sill	12/13/2017	ND
121317-09	Blue Wing 23B (E218)	Window Sill	12/13/2017	ND
121317-10	Yellow Wing Girls Locker Rm Office (D130)	Floor	12/13/2017	ND
121317-11	Yellow Wing Boys Locker Rm Office (D119)	Floor	12/13/2017	ND
121317-12	Yellow Wing Girl's Restroom (D103)	Window Sill	12/13/2017	ND

Sample ID	Sample Location	Surface	Sample Date	Total PCBs µg/100 cm ²
121317-13	Black Wing Tech Ed Lab (C102)	Window Sill	12/13/2017	ND
121317-14	Black Wing Music Room (C120)	Window Sill	12/13/2017	ND
121317-15	Black Wing Rm 33 (C116)	Window Sill	12/13/2017	ND
121317-16	Red Wing 12R (B120)	Window Sill	12/13/2017	ND
121317-17	Red Wing 13R (B118)	Window Sill	12/13/2017	ND
121317-18	Red Wing 15R (B114)	Window Sill	12/13/2017	ND
121317-19	Red Wing 18R (B110)	Window Sill	12/13/2017	ND
121317-20	Red Wing 22R (B220)	Window Sill	12/13/2017	ND
121317-21	Red Wing 23R (B218)	Window Sill	12/13/2017	ND
121317-22	Admin Wing Nurse's Rm (A130)	Window Sill	12/13/2017	ND
121317-23	Admin Wing Humanities office (A134)	Window Sill	12/13/2017	ND
121317-24	Admin Wing Conference Rm 1 (A117)	Window Sill	12/13/2017	ND
121317-25	White Wing 12W (G122)	Window Sill	12/13/2017	ND
121317-26	White Wing 15W (G116)	Window Sill	12/13/2017	ND
121317-27	White Wing 17W (G110)	Window Sill	12/13/2017	ND
121317-28	White Wing 22W (G220)	Window Sill	12/13/2017	ND
121317-29	White Wing 24W (G215)	Window Sill	12/13/2017	ND
121317-30	Duplicate - White Wing 24W (G215)	Window sill	12/13/2017	ND
121317-31	White Wing 28W (G210)	Window Sill	12/13/2017	ND
121317-32	White Wing 27W (G208)	Window Sill	12/13/2017	ND
121317-33	Hub Tech Lab 1 (H107)	Floor	12/13/2017	ND
121317-34	Hub Room 3 (H116)	Floor	12/13/2017	ND
121317-35	Field Blank	N/A	12/13/2017	ND
Wipe Sample Results - March 28, 2018				
20170088.A9E - Report Dated April 18, 2018				
032818-01	Hub Technology Office 105	Floor	3/38/2018	ND
032818-02	Hub hallway outside Blue Wing H104	Floor	3/38/2018	ND
032818-03	Hub hallway outside Blue Wing (Duplicate)	Floor	3/38/2018	ND
032818-04	Hub hallway outside Yellow Wing	Floor	3/38/2018	ND

Sample ID	Sample Location	Surface	Sample Date	Total PCBs µg/100 cm ²
032818-05	Admin Guidance Coordinator A136	Window Sill	3/38/2018	ND
032818-06	Admin Office 114	Window Sill	3/38/2018	ND
032818-07	Admin Office 115	Window Sill	3/38/2018	ND
032818-08	Admin Office 116	Window Sill	3/38/2018	ND
032818-09	Admin Conf. Rm 3 A119	Window Sill	3/38/2018	ND
032818-10	White Ground Floor Stair G-St1	Floor	3/38/2018	ND
032818-11	White Classroom 16W-b/G105	Window Sill	3/38/2018	ND
032818-12	White Classroom 16W-a/G106	Window Sill	3/38/2018	ND
032818-13	White Stair 1st Floor G-ST1	Stair Tread	3/38/2018	ND
032818-14	White Girl's Lav. G204	Floor	3/38/2018	ND
032818-15	Green Faculty Dining F108	Window Sill	3/38/2018	ND
032818-16	Green Women's Lav. F118	Floor	3/38/2018	ND
032818-17	Blue Classroom 13B/E118	Window Sill	3/38/2018	ND
032818-18	Blue Ground Floor Stair E-St1	Floor by exterior door	3/38/2018	ND
032818-19	Blue Ground Floor Stair E-St1 (Duplicate)	Floor by exterior door	3/38/2018	ND
032818-20	Blue Stair 1st Floor E-ST1	Stair Tread	3/38/2018	ND
032818-21	Blue Classroom 28B/E210	Window Sill	3/38/2018	ND
032818-22	Blue Classroom 25B/E214	Window Sill	3/38/2018	ND
032818-23	Blue Classroom 22B/E220	Window Sill	3/38/2018	ND
032818-24	Yellow Main Gym Area D107 By Ext Door	Floor by exterior door	3/38/2018	ND
032818-25	Yellow Aux Gym Area D108 By Ext Door	Floor by exterior door	3/38/2018	ND
032818-26	Black Sewing Lab 38/C110	Window Sill	3/38/2018	ND
032818-27	Black Classroom 39/C112	Window Sill	3/38/2018	ND
032818-28	Black Classroom 40/C114	Window Sill	3/38/2018	ND
032818-29	Black Classroom 34/C115	Window Sill	3/38/2018	ND
032818-30	Red Classroom 19R/B112	Window Sill	3/38/2018	ND
032818-31	Red Classroom 14R/B116	Window Sill	3/38/2018	ND
032818-32	Red Asst. Principal's Office B126	Window Sill	3/38/2018	ND
032818-33	Red Boy's Lav. B202	Floor	3/38/2018	ND

Sample ID	Sample Location	Surface	Sample Date	Total PCBs µg/100 cm ²
032818-34	Red Classroom 24R/B216	Window Sill	3/38/2018	ND
032818-35	Field Blank	N/A	3/38/2018	ND

ND = None detected above laboratory reporting limit

* = Sample destroyed accidentally or equipment malfunction occurred

Note: Sample location names have been updated from previous reports for greater clarity following data review.

Table 3-1: Summary of Field Blank Sample Results

Date	Sample Type	Sample Number	Result (ng/m ³)
5/25/2017	Air	PCB-084	ND
5/25/2017	Wipe	PCB-081	ND
8/22/2017	Wipe	082217GI-34	ND
8/22/2017	Wipe	082217GI-35	ND
8/30/2017	Air	JFK-328	ND
8/30/2017	Wipe	JFK-327	ND
12/13/2017	Wipe	121317-35	ND
12/14/2017	Air	121417-25	ND
12/14/2017	Air	121417-26	ND
1/8/2018	Air	010818-03	ND
3/28/2018	Wipe	032818-35	ND
4/2/2018	Air	040218-26	ND
6/21/2018	Wipe	062118-35	ND
6/22/2018	Air	062218-26	ND

ND = None detected above laboratory reporting limit

Air sample result units are ng/m³

Wipe sample result units are µg/100 cm²

Table 3-2: Summary of Duplicate Sample Results

Sample Date	Sample Type	Sample Location	Original Sample Number	Original Result	Duplicate Sample Number	Duplicate Result
5/25/2017	Air	Green Wing Kitchen	PCB-048	ND	PCB-049	ND
5/25/2017	Wipe - Window Sill	Red Classroom 26R/B206	PCB-079	ND	PCB-082D	ND
8/30/2017	Air	Blue Classroom 17B/E108	JFK-282	ND	JFK-293	ND
8/30/2017	Wipe - Floor	Green Storage F102	JFK-300	ND	JFK-301D	ND
8/30/2017	Wipe - Floor	Red Corridor B213	JFK-322	ND	JFK-322D	ND
12/14/2017	Air	Green Wing Kitchen Office (F113)	121417-23	1124	121417-24	320
4/2/2018	Air	Black Sewing Lab 38/C110	040218-18	ND	040218-19	ND
4/2/2018	Air	Hub Hallway o/s Yellow	040218-03	ND	040218-04	ND
6/21/2018	Wipe	White 26/G206	062118-14	ND	062118-34	ND
6/22/2018	Air	White 13/B118	062218-22	ND	062218-25	ND

ND = None detected above laboratory reporting limit

Air sample result units are ng/m³

Wipe sample result units are µg/100 cm²

Appendix A

Wipe Sampling Method

WIPE SAMPLING AND DOUBLE WASH/RINSE CLEANUP
AS RECOMMENDED BY
THE ENVIRONMENTAL PROTECTION AGENCY PCB SPILL CLEANUP POLICY

June 23, 1987

Revised and Clarified on April 18, 1991

Written By:

John H. Smith, Ph.D.
Chief, PCB Disposal Section
Chemical Regulation Branch
United States Environmental Protection Agency
Washington, D.C.

CONTENTS

- I. WIPE SAMPLING ACCORDING TO THE PCB SPILL CLEANUP POLICY
 - a. Introduction
 - b. Background
 - c. Answers to Questions on Wipe Sampling Procedures:
 - d. Summary of Cleanup Levels Based on the EPA PCB Spill Cleanup Policy.
 - i. Low Concentration Spills Involving Less Than One Pound of PCBs by Weight.
 - ii. High Concentration Spills and Low Concentration Spills Involving More Than One Pound of PCBs by Weight.
 - e. Additional Wipe Sampling Information
- II. DESCRIPTION OF DOUBLE WASH/RINSE
 - a. Introduction
 - b. General Requirements for All Double Wash/Rinse Surfaces
 - c. Summary of the Double Wash/Rinse Procedure
 - d. Detailed Requirements for the Double Wash/Rinse

I. WIPE SAMPLING ACCORDING TO THE PCB SPILL CLEANUP POLICY

Introduction:

This document was prepared following the publication of the PCB Spill Cleanup Policy in the Federal Register on April 2, 1987. The procedures were demonstrated by EPA PCB program technical staff at PCB Forum '87 and PCB Forum '88. These PCB forums were privately sponsored seminars discussing the requirements of the recently issued PCB Spill Cleanup Policy. The seminars were publicly announced and held in eight cities near the EPA Regional Offices.

The revisions and clarifications to the document include the addition of an Introduction heading, the addition of three paragraphs to the Background heading, and the amendment to item 4 in "An Example of a Wipe Sampling Procedure."

This document was revised and clarified because it did not clearly and completely state EPA's intentions in an area where details were essential, that is the original version of this document assumed that a gloved hand would apply the gauze with moderate pressure, but inadvertently this requirement was never explicitly stated in the example of the wipe sampling procedure. The gloved-hand application of the gauze might have been assumed since the gloves were to be discarded after each sample. The procedure clearly did not say to apply the gauze to the surface with forceps. The EPA demonstrations and discussions at the PCB Forums clearly emphasized the pressurized application of moistened cotton gauze to the surface with a gloved hand.

Background:

The PCB spill Cleanup Policy requires wipe sampling for the determination of surface levels of PCBs resulting from PCB spills onto hard, "smooth", surfaces such as metal, wood, concrete, plastic, and glass (see Tables 1 and 2). There are several activities surrounding a PCB spill cleanup where wipe sampling may be used: (a) site characterization; (b) interim evaluation of the progress of the cleanup; and (c) the final process to verify that the cleanup has met requirements of the PCB Spill Cleanup Policy.

Wipe sampling has a number of advantages. The most apparent advantage is that wipe sampling is probably the best way to determine smooth "impervious" surface concentrations. Wipe sampling is most effective in areas with relatively large, flat, easily accessible surfaces where an accidental and/or short time exposure to PCBs has occurred. The surfaces which are sampled by wipe sampling in many cases will have been (or will be) cleaned by wiping or wiping-related activities.

Wipe sampling is best used in conjunction with statistical random sampling and/or area sampling techniques. Reduction in sampling errors for all kinds of sampling procedures can be accomplished by statistical selection of the smaller sampling sites selected to represent a larger area. Non-sampling errors may be reduced by maintaining consistency within the sampling activities; use of comprehensive quality control procedures and samples; and wherever possible, establishing a reference point for comparison.

Unfortunately, wipe sampling is not quantitative because of the fairly large variability in several component parts of sampling and the relative inefficiency of extraction of the analyte of interest from the wipes. Wipe sampling evaluation study results are known to vary widely, for example, when the same sampling is done (1) by different samplers; (2) on similarly contaminated surfaces having different textures or porosities; (3) using no solvent or solvents having different polarities; and (4) using different kinds of wiping material such as filter paper or cotton gauze.

When a decision is made to use wipe sampling, (1) it should be assumed that the results are not always reproducible; (2) extra care should be used to minimize the variability and optimize quantitation; and (3) even if representative sampling is employed, wipe sampling results can indicate residual levels substantially below true surface levels. In developing the PCB Spill Cleanup Policy, EPA has considered the advantages and disadvantages of wipe sampling and accordingly has established allowable residual PCB levels as measured by wipe sampling.

Since the objective of surface sampling is to remove PCB liquids and particles, which may be adhering to the surface, from the surface an aggressive sampling procedure is necessary. The aggressive sampling is appropriate since often the surfaces being sampled have been aggressively cleaned and may drive residual PCBs into the surface. For determining the PCB surface concentrations on smooth surfaces, EPA recommends wipe sampling using cotton gauze as the wipe medium and using a gloved or doubly gloved hand to apply the wipe to the surface. This procedure requires changing into new/clean gloves between samples. EPA recognizes that there may be some transport of PCBs from the gauze to the surface of the gloves. However, this potential loss is considered more acceptable than the problems from the disadvantages of other wipe sampling procedures.

Procedures employing filter paper and/or glass fiber pads and application of these pads to surfaces by swabbing, dipping, or brushing with a pair of forceps are unacceptable. EPA recognizes that this kind of wipe sampling technique may be

widely applied to address other kinds of surface sampling objectives. However, to meet EPA's PCB surface sampling objectives, these procedures are less efficient and less effective than hand wiping with the more absorbent cotton gauze.

Any compositing of wipe samples or sampling of areas larger than 100 cm² may not address the intent of PCB Spill Cleanup Policy verification sampling.

Answers to Questions on Wipe Sampling Procedures:

Why is does it take so much care to wipe sample correctly?

There is a considerable variability possible among wipe sampling results due to (a) the sampling technique of the sampler and (b) the efficiencies of removing PCBs from several matrices and placing the PCBs into several other matrices. Therefore it is important to reduce this variability to the maximum extent possible, so that in the event of a verification analysis by quality control samplers or government enforcement inspectors, similar wipe sampling results will be obtained for a clean site.

Two factors increase the probability of reducing errors introduced by the sampler's technique: consistency and quality control. Consistency is aided by proper training, easily understood sampling procedures, immediate availability of proper supplies, and whenever possible, using the same sampler to do all sampling at a particular site. Quality control procedures provide reference points and comparisons for the field sample results. When the analytical results from quality control samples indicate potential sampling and analysis problems, there is often sufficient time to reexamine field results. Quality control sampling can reduce or eliminate additional sampling and analysis start up and/or additional cleanup costs.

The reproducibility and efficiency of transferring residual PCBs from one place to another require that such residual PCBs must have a much greater affinity to partition, in one or more steps, from the place of origin to the ultimate destination. For all transfer steps, PCBs must exhibit a much greater propensity to be in the destination medium than in the medium of origin. There are several transfer steps in the process which starts from the removal of PCBs from the surface sampled and ends with the production of a PCB surface concentration by way of instrumental analysis.

The first of these transfer steps is removing residual PCBs from the surface to be sampled and transferring them into the sampling medium*. Gauze pads are sturdier, allow better surface to surface contact, and absorb more solvent (and more PCBs) than filter paper. Therefore, gauze pads are the absorbent/sampling medium of choice. Since PCBs are very soluble in organic solvents, organic solvent is used to moisten the gauze pads to ease the transport of PCBs from the sampled surface into the sampling media. Once the areas of where the spill occurred have been sampled (after cleanup) and the residual PCBs have been transported to the moistened gauze, then the gauze is air dried and stored/shipped for chemical analysis. The gauze is dried so as to facilitate transfer by organic solvent from the gauze to another medium during the laboratory extraction step.

In the extraction step the PCBs must be isolated from the gauze in a form amenable to the chemical analysis methods to be used. The PCBs now in the gauze are usually extracted into a solvent by repeated rinsing with and subsequent collection of organic solvent. The extraction solvent is removed from the PCBs by evaporation of the solvent prior to chemical analysis. The more volatile organic solvent evaporates and leaves the less volatile PCBs in a more concentrated solution for further treatment or instrumental analysis.

What is the best way to wipe sample for PCBs on smooth surfaces?

There are several steps in a wipe sampling procedure. The first step is to prepare the sampler for the sampling activity. The sampler may have to be advised of (through a briefing or a refresher course), or trained in, the objectives of the sampling program and the procedures to be used to accomplish those objectives.

Once advised of the objectives and sampling procedures, the sampler must either prepare or obtain the sampling plan and sampling materials. The sampler must know the exact sampling sites or know the exact procedure for selecting those sites. The sampling supplies must be sufficient in quantity and quality for all normally expected occurrences. Provisions should be also made for quality assurance samples, chain of custody forms, and shipping materials for storage.

* When PCB-contaminated office paper has been solvent rinsed, then wipe sampled and bulk sampled, some recent chemical analysis results indicate that the PCB concentration in the surface wipes is not the same as the concentration in the bulk samples. PCB levels in uncontaminated paper were used as a control. The difference in PCB levels in the wipe samples and bulk samples may

be explained by PCB migration into the paper either during cleanup to remove PCBs or during the wipe sampling step.

An important series of quality assurance measures taken before on-site sampling occurs may save considerable expense from collecting contaminated or unusable wipe samples. Sampler training can include practice sampling of surfaces spiked with PCB surrogate compounds, such as tri- and tetrachlorobenzenes to sharpen skills (a) in wiping thoroughly and consistently, and (b) avoiding cross contamination. In addition, before field sampling is conducted, method blanks can be used to verify that sampling equipment supplies and procedures do not introduce PCBs or analytical interferences to the wipe samples. Complete supplies for sampling should be cleaned, a fraction of the supplies sampled individually or through method blanks, and, if clean, the supplies should be protected against contamination or destruction while being transported to the sampling site and while at the sampling site before actual sampling occurs.

The sampler arrives at a sampling site and determines the exact location where the 100 square centimeter (cm²) sample will be taken. The sample location may be marked or framed by a template. The sampler must be conscious of possibility of cross contamination during all stages of the sampling activity. All surfaces should be wiped with as uniform a pressure as possible. It is important to use the appropriate pressure to thoroughly wipe materials off the surface. Wiping proceeds from left to right in rows from the top to the bottom of the framed sampling area. The sampling area is wiped again with the same uniform pressure in columns from the top to the bottom from the left side to the right side of the entire framed area. It is not critical whether wiping starts at the top left or with rows first and then columns. The objective is to systematically, thoroughly, and consistently wipe the entire framed area twice, each time from a different direction and orientation.

Once the area has been wiped, the sampling gauze is allowed to air dry and is replaced in the sample vial. The sample vial is then labelled, the chain of custody filled out, and the sample prepared/stored for shipping.

Table 1

SUMMARY OF CLEANUP LEVELS
BASED ON THE EPA PCB SPILL CLEANUP POLICY

Requirements for Cleanup of Low-Concentration Spills
Which Involve Less Than One Pound PCBs by Weight
(Less Than 270 Gallons of Untested Mineral Oil
[Containing Less Than 500 ppm PCBs])

Solid Surfaces (except for all indoor, residential surfaces other than vault areas)	Double washed/rinsed
All Indoor, Residential Surfaces Other Than Vault Areas	10 micrograms per 100 cm ² by standard commercial wipe tests
Soil	Remove visible traces of the spill and soil within a one foot buffer of the visible traces

Table 2

SUMMARY OF CLEANUP LEVELS
BASED ON THE EPA PCB SPILL CLEANUP POLICY

Requirements for Cleanup of
High-Concentration Spills and Low-Concentration Spills
Involving One Pound or More PCBs by Weight
(270 Gallons or More of Untested Mineral Oil
[Containing Less Than 500 ppm PCBs])

Residential/Commercial/Rural

Indoor (except vaults), and Outdoor High Contact	10 micrograms per 100 cm ²
Indoor Vaults	10 micrograms per 100 cm ²
Outdoor Low Contact Porous Surface Option	10 micrograms per 100 cm ² 100 micrograms per 100 cm ² plus encapsulation
Soil	10 ppm Plus a 10 Inch Cap

Restricted Access (Non-Sub-Station)

High Contact Surfaces	10 micrograms per 100 cm ²
Low Contact Indoor Surfaces Porous Surface Option	10 micrograms per 100 cm ² 100 micrograms per 100 cm ² Plus Encapsulation
Outdoor Low Contact Surfaces	100 micrograms per 100 cm ²
Soil	25 ppm

Outdoor Electrical Substations

Surfaces	100 micrograms per 100 cm ²
Soil	25 ppm or 50 ppm with Notice

**Additional Wipe Sampling Information
(Contents)**

1. An Example of a List of Wipe Sampling Supplies.
2. An Example of Sample Site Preparations.
3. An Example of a Wipe Sampling Procedure.
4. A Detailed Description of Quality Controls for Wipe Sampling Activities.
5. Wipe Sampling Quality Control Samples (Summary).
6. An Example of Quality Assurance Procedures Useful When Conducting Wipe Sampling Activities.
7. An Example of Procedures to Use When Cleaning Wipe Sampling Equipment.

An Example of a List of Wipe Sampling Supplies

Copy of Sampling Procedures and Study Objectives
Pen (Indelible Ink)
Pre-numbered Sample Labels
Tape to Cover Labels
Chain of Custody Forms
Screw Top Vials with Teflon Lined Caps
 These Vials Contain Pre-Cleaned 3" x 3" Surgical Gauze Pads
Teflon Squirt Bottle for Applying Solvent to Wipes and Washing
Solvent, preferably in a bottle with a volumetric delivery top
Graduated cylinder, when not using a volumetric delivery top
Disposable Gloves
Metal Ruler
Sampling Template
Forceps for Removing (Replacing) Gauze from (into) Vials
Disposable Wipes (for cleaning ruler)
Garbage Bags/Containers (for disposal of gloves and solid waste)
Funnel
Five Gallon Solvent Can for Disposal of Rinse Solvent
Shipping/Storage Containers for Samples
Sampling Site Description Forms with Optional Instant Print
 Camera

An Example of Sample Site Preparations

At each sample site location:

- Mark the exact sample site with the template or a ruler

- If the site is not easily marked with a template or ruler (an irregular non-planar surface), write a detailed description of the area sampled. A instant print photograph with the ruler included (for scale) is a very valuable descriptor.

- Prepare all necessary forms and sampling logs for entry of the sampling time, date, location, and other information describing the sampling at that particular site.

- Prepare all sampling equipment for sampling the site.

An Example of a Wipe Sampling Procedure

Assume that the exact sampling site has been marked.

1. With gloved hands, remove the cap from the sampling vial.
2. With the forceps, remove the gauze from the sampling vial.
3. From a solvent bottle, use the volumetric delivery device or fill a graduated cylinder with 5 milliliters of solvent to the gauze.
4. Immediately begin applying the gauze using a gloved hand and, applying pressure, wipe the marked area completely twice, from left to right and then from top to bottom.
5. Let the gauze air dry.
6. Fold the dry gauze (sampled side inward) and return it to the sample vial.
7. Cap the sample vial.
8. Remove and discard the gloves.
9. Label the vial and fill out sampling details on the sampling forms.
10. Fill out chain of custody forms and prepare the sample for storage and shipping.

A Detailed Description of Quality Controls for Wipe Sampling Activities

Several kinds of quality control (QC) samples should be used. Each kind of sample provides an indication of the reliability of a part of the sampling and analysis process.

It is better not to identify QC samples as such when submitting the QC samples to the analytical laboratory. It is best to randomly number all samples when submitting them to the analytical laboratory. The chemical analysis laboratory does not need to know sample descriptions except for matrix type or in the event of the presence of an unusually high concentration in the wipe. Specific identification of the QC samples will not be necessary since the concentration range in these samples should be in the normal operating range of the analytical instruments.

Vials refer to the glass vials containing sampling gauze.

1. Field Blanks - at least 5% of the total samples include at least two samples each from the following:
 - a. Ship unopened vials back for analysis.
 - b. With gloved hands, remove the cap from a sample vial for the estimated time (record this time) of normal wipe sampling, allow the gauze to air dry without applying it to any surface, and proceed with step 7 in the wipe sampling procedure.
 - c. Use the wipe sampling procedures to wipe some areas/surfaces near the sampling site but which are not expected to be contaminated.

2. Duplicates - at least 5% of total samples including at a minimum the designated samples from both the following groups:
 - a. Double wipe at least two sample sites, label which was the first wipe and which was the second wipe for each of the two sites, for each kind of surface sampled.
 - b. For at least two sample sites for each kind of surface sampled, wipe two adjacent identical or nearly identical areas. Clearly identify the samples as being adjacent to one another in the sample description forms.

**A Detailed Description of
Quality Controls for Wipe Sampling Activities
(Continued)**

3. Field Spikes - at least 5% of total samples including at a minimum the designated samples from each of the following groups for each kind of surface sampled. Clearly describe these samples on the sample description forms.
 - a. For two vials or more, remove each gauze and moisten as for sampling and spike each wet gauze with ten micrograms each of the kind of PCBs which was spilled, wipe a contaminated surface adjacent to a sampled surface as in 2b (above), let the gauze air dry, replace the gauze, and proceed with step 7 in the wipe sampling procedure.
 - b. For a second pair of vials or more, remove each gauze and moisten as for sampling, wipe a contaminated surface adjacent to a sampled surface as in 2b (above), after wipe sampling (but before air drying) spike each wet gauze with ten micrograms each of the kind of PCBs which was spilled, let the gauze air dry, replace the gauze in the vials, and proceed with step 7 in the wipe sampling procedure.
 - c. For a third pair of vials or more, spike sampling surfaces adjacent to another sampled surface as in 2b (above) with ten micrograms each of the kind of PCBs which was spilled and allow to air dry; remove each gauze and moisten as for sampling; wipe the surface; let the gauze air dry, replace the gauze in the vials; and proceed with step 7 in the wipe sampling procedure.

Wipe Sampling Quality Control Samples (Summary)

1. Field Blanks - At least two samples from each category
 - a. For each spill site prepare the following blanks:
 - i. Unopened sampling vials containing gauze
 - ii. Remove gauze but do not use to wipe
 - b. For each kind of surface, wipe an uncontaminated 100 cm² surface with a gauze as a blank surface
2. Duplicate Samples - At least 5% of total samples
 - a. For each kind of surface at each spill site:
 - i. Double wipe at least two sample sites
 - ii. Side by side wipe at least two sample sites
3. Spiked Samples - At least 5% of total samples
 - a. Wipe no less than two samples each for each kind of surface at each spill site. All are side by side paired samples. One sample for each pair is untreated, for the other sample:
 - i. Spike gauze with 10 micrograms of PCBs, then wipe the 100 cm² area
 - ii. Wipe the 100 cm² area first, then spike gauze with 10 micrograms of PCBs
 - iii. Spike the 100 cm² site with 10 micrograms of PCBs, then wipe

**An Example of Quality Assurance Procedures
Useful When Conducting Wipe Sampling Activities**

1. Designate a person, not the sampler or chemical analyst, who is responsible for quality assurance and quality control including: training, preparation of sampling supplies, wipe sampling, sample preparation/extraction, chemical analysis, analytical data reduction, reporting of the sampling results, and conclusions drawn from the results.
2. Document the objectives of the wipe sampling and subsequent chemical analysis. Include performance requirements such as number of samples required, precision, accuracy, measurable deliverables, and schedules.
3. Develop a quality assurance plan which includes: the objectives; quality assurance/quality control procedures, audits, and schedules; persons responsible for all aspects of the sampling and chemical analysis efforts; references to all safety, training, sampling, and chemical analysis procedures; and corrective actions (including approximate times before corrective actions will occur) to be taken in the event that documented procedures cannot be or have not been followed.
4. Verify that staff doing sampling are the designated staff or suitably trained and informed replacements for the designated staff.
5. Verify that the sampling equipment and the sample gauze/vials are not going to introduce contamination into the samples.
6. Verify that sufficient quality control samples are taken and taken properly, that sampling objectives are met, and that chain of custody procedures are being followed.
7. Verify that sample extraction and chemical analysis occurs according to documented procedures. Assure that suitable and sufficient analytical quality control samples and reference standards are analyzed.
8. Verify that analytical data calculations are properly generated and the data are correctly associated with the proper samples.
9. Assure that conclusions based on the chemical analysis of the samples are in keeping with the sampling procedures and sample site locations.
10. Document quality assurance activities including: who did it, what was done, when it was done, where was it done, and why was it done. Document and justify any deviations from documented procedures and policies.

**An Example of
Procedures to Use When Cleaning Wipe Sampling Equipment**

1. Using clean (or cleaned) disposable equipment is overall probably more cost-effective than cleaning and verifying that cleaned sampling equipment is free from PCBs. The second choice is not cleaning any equipment on or near the sampling site, but to have sufficient recleaned sampling equipment to completely sample a site. The least favorable situation is to clean sampling equipment for reuse at the same sampling site. If cleaning must be done at or near the sampling site, clean the sampling equipment as far from the actual site of cleanup/contaminations as possible.

2. Try to have sufficient clean materials on-site to completely sample a site (plus at least ten percent surplus for unforeseen accidents and blunders) so as not to have to clean any sampling equipment.

3. Use cleaning procedures which have been verified as effective previously. Good cleaning includes:

- Washing with soapy water
- Rinsing thoroughly with water
- Rinsing three times thoroughly with distilled water
- Rinsing with PCB-free organic solvent
- Air drying for non-glass
- Drying in a muffle furnace at 350°C for glass
- Verification sampling and analysis of cleaned equipment
- Protective packaging for shipment to the sampling site

4. The same kind of verification procedures should be used for new equipment as is used for equipment which has been cleaned:

a. Selecting a statistical sample from the equipment. For lots having large numbers of units (such as sample bottles), a 5% or less proportion of the units may be sufficient. For equipment which comes in direct contact with contaminated surfaces (such as templates) a 10% sample may be more appropriate unless historical data have verified that a smaller proportion is sufficient.

b. Rinsing "clean", dry equipment with the same amount of organic solvent as is used in the sampling procedure or more than sufficient solvent to completely cover and rinse off all contact (with the wipe sample, sampler, or the surface) surfaces of equipment. The rinseate is collected and treated as an extract from a sample gauze pad.

c. The presence of detectable levels of PCBs indicate that

contamination is present and that the lot from which the verification sample(s) came must be either recleaned and reverified or disposed of appropriately.

II. DESCRIPTION OF DOUBLE WASH/RINSE

Introduction

The PCB Spill Cleanup Policy requires that low concentration spills of small amounts of PCBs on surfaces are to be removed by a double wash/rinse procedure. The objectives of the double wash/rinse are (1) to recognize the lesser hazard resulting from these small quantity spills and from the cleanup of such spills, and (2) to remove the easily removable PCB material thoroughly and quickly. It is also important not to redistribute PCBs or leave pieces of cleanup materials as a result of the cleanup procedure.

General Requirements for All Double Wash/Rinse Surfaces

For spills where there is still visible PCB-containing liquid present on the surface to be cleaned up, the double wash/rinse procedure first requires a pre-cleaning step. This step includes thoroughly wiping/mopping up the entire surface with absorbent paper or cloth material, such that there are no longer visible signs of the liquid present on the surface.

The double wash/rinse procedure called for in the cleanup of surfaces contaminated by small spills includes the two washing steps and two rinsing steps. The two washing and rinsing steps are slightly different depending on: (a) whether a contaminated surface was relatively clean before the spill, or (b) whether a surface was coated/covered with some sort of absorbent material, such as dust, dirt, grime, or grease.

Minimization of residual PCBs following the double wash/rinse procedure is facilitated by the proper selection and use of cleanup equipment. Scrubbers and the absorbent pads used in the double wash/rinse procedure shall not be dissolved by solvents or cleaners used. Scrubbers and absorbent pads shall not contain greater than 2 parts per million (weight per weight) PCBs. Washing scrubbers and absorbent pads shall not be reused. Rinsing scrubbers and absorbent pads may be reused as washing scrubbers or absorbent pads if necessary, but this is not recommended. All double wash/rinse cleaning/absorbent materials must remain intact (i.e. do not shred, crumble, or leave visible fragments on the surface) after the double wash/rinse operation.

During the double wash/rinse process, all washing and rinsing liquids/solvents must be contained, captured, and properly disposed of in accordance with local, state, and Federal regulations. Following use in the double wash/rinse process, all double wash/rinse equipment and absorbent materials must also be disposed of in accordance with local state, and Federal regulations.

Summary of The Double Wash/Rinse Procedure

General

1. Use disposable cleaning materials which do not
 - dissolve or break apart
 - contain traces of PCBs.
2. Remove any visible PCB liquid before washing/rinsing.
3. Capture and contain washing/rinsing solutions.
4. Properly dispose of cleaning materials and solutions/liquids.

Specific

1. For surfaces not covered with dirt, dust, grime, grease or other potential absorbent of PCBs:

WASH 1: Scrub with organic solvent and wipe up the solvent.

RINSE 1: Wipe surface with moistened pad, wipe up with dry pad.

WASH 2: Repeat WASH 1.

RINSE 2: Repeat RINSE 1.

2. For surfaces covered with dirt, dust, grime, grease or other potential absorbent of PCBs:

WASH 1: Scrub with detergent and water, dry.

RINSE 1: Rinse with water, wipe with wet adsorbent pad, dry.

WASH 2: Scrub with organic solvent and wipe up the solvent.

RINSE 2: Wipe surface with moistened pad, wipe up with dry pad.

Detailed Requirements for the Double Wash/Rinse

1. Specific requirements for surfaces that do not appear dusty or grimy before a spill, such as glass, automobile surfaces, newly poured concrete, and desk tops:

WASH 1.

If there is no visible liquid or after having removed the visible liquid, cover the entire surface with organic solvent in which PCBs are soluble to at least 5% by weight. Contain and collect any runoff solvent for disposal. Scrub rough surfaces with a scrub brush or disposable scrubbing pad. Add solvent such that the surface is always very wet for one minute per square foot. Wipe smooth surfaces with a solvent-soaked, disposable absorbent pad for one minute per square foot. Any surface less than one square foot shall also be washed for one minute. Wipe, mop, and/or sorb the solvent onto absorbent material until no visible traces of the solvent remain.

RINSE 1.

Wipe the surface with an absorbent pad soaked with the same organic solvent with a solvent-soaked, disposable absorbent pad for one minute per square foot. Any surface less than one square foot shall also be washed for one minute. Immediately wipe/sop up the solvent on the surface with a dry absorbent.

WASH 2.

Repeat WASH 1.

RINSE 2.

Repeat RINSE 1.

Detailed Requirements for the Double Wash/Rinse (Continued)

2. Specific requirements for dirty, dusty, grimy, or greasy surfaces or surfaces having surface coverings of some other kind of sorbant materials (where the spill probably largely sorbed onto the materials on the surface):

WASH 1.

If there is no visible liquid or after having removed the visible liquid, cover the entire surface with concentrated or industrial strength detergent or non-ionic surfactant solution. Contain and collect all cleaning solutions for proper disposal. Scrub rough surfaces with a scrub brush or scrubbing pad, adding cleaning solution such that the surface is always very wet, for one minute per square foot. Wipe smooth surfaces with a cleaning solution-soaked disposable absorbent pad for one minute per square foot. Any surface less than one square foot shall also be washed for one minute. Mop up or absorb the residual cleaner solution and suds with an absorbent pad until the surface appears dry. This cleaning should remove any residual dirt, dust, grime, or other sorbant materials left on the surface following step one (above).

RINSE 1.

Rinse off the wash solution with one gallon of water per square foot and capture the rinse water. Mop up the wet surface until the surface appears dry.

WASH 2.

Next, cover the entire dry surface with organic solvent in which PCBs are soluble to at least 5% by weight. Scrub rough surfaces with a scrub brush or scrubbing pad adding solvent such that the surface is always very wet for one minute per square foot. Wipe smooth surfaces with a solvent-soaked, disposable absorbent pad for one minute per square foot. Any surface less than one square foot shall also be washed for one minute. Wipe, mop, and/or sorb the solvent onto absorbent material until no visible traces of the solvent remain.

RINSE 2.

Wipe the surface with an absorbent pad soaked with the same organic solvent as in RINSE 1 (above) and immediately wipe up the solvent on the surface with a dry absorbent.

Appendix B

Laboratory Analytical Reports



Monday, July 02, 2018

Attn: Carlos Texidor
Fuss & O'Neill EnviroScience, LLC
145 Hartford Road
Manchester, CT 06040

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
Sample ID#s: CA75393 - CA75427

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

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

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75393

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	106		%	1	06/23/18	AW	30 - 150 %
% TCMX	96		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75394

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	106		%	1	06/23/18	AW	30 - 150 %
% TCMX	88		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75395

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	102		%	1	06/23/18	AW	30 - 150 %
% TCMX	96		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75396

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	104		%	1	06/23/18	AW	30 - 150 %
% TCMX	95		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75397

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	103		%	1	06/23/18	AW	30 - 150 %
% TCMX	94		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75398

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	112		%	1	06/23/18	AW	30 - 150 %
% TCMX	103		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75399

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	96		%	1	06/25/18	AW	30 - 150 %
% TCMX	100		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75400

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	97		%	1	06/25/18	AW	30 - 150 %
% TCMX	100		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75401

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	109		%	1	06/23/18	AW	30 - 150 %
% TCMX	99		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75402

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/23/18	AW	SW8082A

QA/QC Surrogates

% DCBP	103		%	1	06/23/18	AW	30 - 150 %
% TCMX	94		%	1	06/23/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75403

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	81		%	1	06/25/18	AW	30 - 150 %
% TCMX	88		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75404

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	92		%	1	06/25/18	AW	30 - 150 %
% TCMX	103		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75405

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	89		%	1	06/25/18	AW	30 - 150 %
% TCMX	95		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75406

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/22/18	AW	SW8082A

QA/QC Surrogates

% DCBP	98		%	1	06/22/18	AW	30 - 150 %
% TCMX	89		%	1	06/22/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75407

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	95		%	1	06/25/18	AW	30 - 150 %
% TCMX	104		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75408

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	86		%	1	06/25/18	AW	30 - 150 %
% TCMX	93		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75409

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	91		%	1	06/25/18	AW	30 - 150 %
% TCMX	98		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75410

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	91		%	1	06/25/18	AW	30 - 150 %
% TCMX	99		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75411

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	90		%	1	06/25/18	AW	30 - 150 %
% TCMX	97		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75412

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/21/18	X/OR/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/25/18	AW	SW8082A

QA/QC Surrogates

% DCBP	90		%	1	06/25/18	AW	30 - 150 %
% TCMX	98		%	1	06/25/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75413

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	70		%	1	06/27/18	AW	30 - 150 %
% TCMX	78		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75414

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	67		%	1	06/27/18	AW	30 - 150 %
% TCMX	73		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75415

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	75		%	1	06/27/18	AW	30 - 150 %
% TCMX	88		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75416

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A

QA/QC Surrogates

% DCBP	78		%	1	06/28/18	AW	30 - 150 %
% TCMX	91		%	1	06/28/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75417

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A

QA/QC Surrogates

% DCBP	72		%	1	06/28/18	AW	30 - 150 %
% TCMX	77		%	1	06/28/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75418

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	75		%	1	06/27/18	AW	30 - 150 %
% TCMX	90		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75419

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A

QA/QC Surrogates

% DCBP	75		%	1	06/28/18	AW	30 - 150 %
% TCMX	83		%	1	06/28/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75420

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-28

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A

QA/QC Surrogates

% DCBP	76		%	1	06/28/18	AW	30 - 150 %
% TCMX	89		%	1	06/28/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75421

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A

QA/QC Surrogates

% DCBP	77		%	1	06/28/18	AW	30 - 150 %
% TCMX	90		%	1	06/28/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75422

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-30

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	76		%	1	06/27/18	AW	30 - 150 %
% TCMX	87		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75423

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-31

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	77		%	1	06/27/18	AW	30 - 150 %
% TCMX	89		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75424

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	69		%	1	06/27/18	AW	30 - 150 %
% TCMX	69		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75425

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/27/18	AW	SW8082A

QA/QC Surrogates

% DCBP	76		%	1	06/27/18	AW	30 - 150 %
% TCMX	87		%	1	06/27/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75426

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-34

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A

QA/QC Surrogates

% DCBP	77		%	1	06/28/18	AW	30 - 150 %
% TCMX	87		%	1	06/28/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

Analysis Report

July 02, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: WIPE
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E

Custody Information

Collected by: KS
 Received by: CP
 Analyzed by: see "By" below

Date

06/21/18
 06/21/18

Time

11:31

Laboratory Data

SDG ID: GCA75393
 Phoenix ID: CA75427

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062118-35

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB Wipe Extraction	Completed				06/26/18	XVS/IG	SW3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1221	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1232	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1242	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1248	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1254	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1260	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1262	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A
PCB-1268	ND	0.50	ug/100cm2	1	06/28/18	AW	SW8082A

QA/QC Surrogates

% DCBP	77		%	1	06/28/18	AW	30 - 150 %
% TCMX	88		%	1	06/28/18	AW	30 - 150 %
Area for PCB Wipes cm2	100		cm2	1	06/21/18		

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 02, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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

QA/QC Report

July 02, 2018

QA/QC Data

SDG I.D.: GCA75393

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 435618 (ug), QC Sample No: CA75393 (CA75393, CA75394, CA75395, CA75396, CA75397, CA75398, CA75399, CA75400, CA75401, CA75402, CA75403, CA75404, CA75405, CA75406, CA75407, CA75408, CA75409, CA75410, CA75411, CA75412)										
<u>Polychlorinated Biphenyl</u>										
PCB-1016	ND	0.50	84	86	2.4				40 - 140	30
PCB-1221	ND	0.50							40 - 140	30
PCB-1232	ND	0.50							40 - 140	30
PCB-1242	ND	0.50							40 - 140	30
PCB-1248	ND	0.50							40 - 140	30
PCB-1254	ND	0.50							40 - 140	30
PCB-1260	ND	0.50	106	106	0.0				40 - 140	30
PCB-1262	ND	0.50							40 - 140	30
PCB-1268	ND	0.50							40 - 140	30
% DCBP (Surrogate Rec)	97	%	107	105	1.9				30 - 150	30
% TCMX (Surrogate Rec)	92	%	99	97	2.0				30 - 150	30

Comment:

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

QA/QC Batch 436235 (ug), QC Sample No: CA75414 (CA75413, CA75414, CA75415, CA75416, CA75417, CA75418, CA75419, CA75420, CA75421, CA75422, CA75423, CA75424, CA75425, CA75426, CA75427)

Polychlorinated Biphenyl

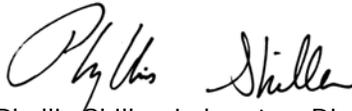
PCB-1016	ND	0.50	110	109	0.9				40 - 140	30
PCB-1221	ND	0.50							40 - 140	30
PCB-1232	ND	0.50							40 - 140	30
PCB-1242	ND	0.50							40 - 140	30
PCB-1248	ND	0.50							40 - 140	30
PCB-1254	ND	0.50							40 - 140	30
PCB-1260	ND	0.50	90	95	5.4				40 - 140	30
PCB-1262	ND	0.50							40 - 140	30
PCB-1268	ND	0.50							40 - 140	30
% DCBP (Surrogate Rec)	81	%	77	77	0.0				30 - 150	30
% TCMX (Surrogate Rec)	91	%	89	88	1.1				30 - 150	30

Comment:

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

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

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 July 02, 2018

Monday, July 02, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCA75393 - FOENVPCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----	----------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill EnviroScience, LL

Project Location: JOHN F KENNEDY MIDDLE SCHOOL **Project Number:**

Laboratory Sample ID(s): CA75393-CA75427 **Sampling Date(s):** 6/21/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>YPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Monday, July 02, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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



RCP Certification Report

July 02, 2018

SDG I.D.: GCA75393

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD24 06/22/18-1 Adam Werner, Chemist 06/22/18

CA75393, CA75394, CA75395, CA75396, CA75397, CA75398, CA75401, CA75402, CA75406

The initial calibration (PC605AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC605BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 06/25/18-1 Adam Werner, Chemist 06/25/18

CA75399, CA75400, CA75403, CA75404, CA75405, CA75407, CA75408, CA75409, CA75410, CA75411, CA75412

The initial calibration (PC612AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC612BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD8 06/27/18-1 Adam Werner, Chemist 06/27/18

CA75413, CA75414, CA75415, CA75416, CA75417, CA75418, CA75419, CA75420, CA75421, CA75422, CA75423, CA75424, CA75425, CA75426, CA75427

The initial calibration (PC608AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC608BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 435618 (CA75393)

CA75393, CA75394, CA75395, CA75396, CA75397, CA75398, CA75399, CA75400, CA75401, CA75402, CA75403, CA75404, CA75405, CA75406, CA75407, CA75408, CA75409, CA75410, CA75411, CA75412

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

Batch 436235 (CA75414)

CA75413, CA75414, CA75415, CA75416, CA75417, CA75418, CA75419, CA75420, CA75421, CA75422, CA75423, CA75424, CA75425, CA75426, CA75427

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

Temperature Narration

The samples were received at 24.4C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



146 Hartford Road, Manchester, CT 06040

www.fando.com

(860) 646-2469 Fax (860) 649-6883

24.4W1C

PCB Wipe Sample Chain of Custody Form

Sheet 1 of 3

Project Name: John F. Kennedy Middle School Project No. 20170088-A9E Date: 6/21/2018

Site Address: 155 Raffia Road, Enfield, CT Building Name/Number: Original School Building Project Manager: Carlos Texidor

Sample ID	Sample Location	Surface	Area	Composite or Grab (C or G)
062118-01	Hub Classroom Hub 2/H117	Window sill	16 in sq	G
062118-02	Hub ISS Room H119	Window sill	16 in sq	G
062118-03	Hub Auditorium H101	Floor	16 in sq	G
062118-04	Hub Stage H120	Floor	16 in sq	G
062118-05	Hub Tech Ed TL-2/H108	Floor	16 in sq	G
062118-06	Hub Corridor H109	Floor by exterior door	16 in sq	G
062118-07	Admin Conference Room 2 A118	Window sill	16 in sq	G
062118-08	Admin SPED Office A133	Window sill	16 in sq	G
062118-09	Admin Guidance Office A113	Window sill	16 in sq	G
062118-10	White Classroom 13W/G120	Window sill	16 in sq	G
062118-11	White Classroom 14W/G118	Window sill	16 in sq	G
062118-12	White Classroom 18W/G112	Window sill	16 in sq	G
062118-13	White Classroom 21W/G223	Window sill	16 in sq	G
062118-14	White Classroom 26W/G206	Window sill	16 in sq	G
062118-15	White Classroom 25W/G214	Window sill	16 in sq	G
062118-16	Green Custodial Office F105	Floor by exterior door	16 in sq	G

24.4 WIC



FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com
(860) 646-2469 Fax (860) 649-6883

062118-17	Blue Classroom 11B/E123	75409	Window sill	16 in sq	G
062118-18	Blue Classroom 16B/E105	75410	Window sill	16 in sq	G
062118-19	Blue Classroom 17B/E108	75411	Window sill	16 in sq	G
062118-20	Blue Classroom 14B/E116	75412	Window sill	16 in sq	G
062118-21	Blue Classroom 21B/E223	75413	Window sill	16 in sq	G
062118-22	Yellow Music Room 2/D134	75414	Window sill	16 in sq	G
062118-23	Yellow SPED Classroom 10B/D102	75415	Window sill	16 in sq	G
062118-24	Yellow Music Room 1/D131	75416	Window sill	16 in sq	G
062118-25	Black Music Classroom 31/C119	75417	Window sill	16 in sq	G
062118-26	Black Classroom 35/C106	75418	Window sill	16 in sq	G
062118-27	Red Classroom 11R/B123	75419	Window sill	16 in sq	G
062118-28	Red Classroom 17R/B108	75420	Window sill	16 in sq	G
062118-29	Red Classroom 21R/B223	75421	Window sill	16 in sq	G
062118-30	Red Classroom 27R/B208	75422	Window sill	16 in sq	G
062118-31	Red Classroom 28R/B210	75423	Window sill	16 in sq	G
062118-32	Red Classroom 25R/B214	75424	Window sill	16 in sq	G
062118-33	Red Classroom 29R/B212	75425	Window sill	16 in sq	G
062118-34	Duplicate	75426	Window Sill	16 in sq	G
062118-35	Field Blank	75427	N/A	N/A	G

SEE NEXT PAGE

Analysis Method: EPA Method 3500B/3540C (Extraction) EPA Method 8082 (Analysis) Laboratory: Phoenix Turnaround Time: 5 Day (48-Hour is Fastest)

Fax Results to the EnviroScience Laboratory at: 888-838-1160. E-Mail PDF of Results to gtexidor@fando.com.



FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com

(860) 646-2469 Fax (860) 649-6883

Special Instruction/Comments: Glass Jars with Teflon Lined Caps. DAS Rates.

Samples Collected By: Kristina Smukowski/Griffin Ingento Contact Info: 203-640-0204

Relinquished [By][To] | Kristina | TDW | Date: 6/21/18 | Date: ~~6/22/18~~ | 6/21/18 | Time: 11:31 | Time: _____

Relinquished [By][To] | _____ | _____ | Date: _____ | Date: _____ | Time: _____

Relinquished [By][To] | _____ | _____ | Date: _____ | Date: _____ | Time: _____



Wednesday, June 27, 2018

Attn: Carlos Texidor
Fuss & O'Neill EnviroScience, LLC
145 Hartford Road
Manchester, CT 06040

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
Sample ID#s: CA76551 - CA76576

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

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

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:22
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76551

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1369.7			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	85		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	76		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:26
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76552

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1377.4			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	70		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	61		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:28
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76553

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1336.1			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	86		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	75		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:31
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76554

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1355.8			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	68		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	56		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:33
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76555

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1367.7			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.018	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	84		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	68		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:34
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76556

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1343.7			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	94		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	79		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:35
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76557

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1254.4			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	77		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	64		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:38
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76558

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1302.4			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	79		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	64		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:40
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76559

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1339.9			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.019	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	77		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	62		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:42
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76560

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1259.2			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	79		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	65		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:45
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76561

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1274.2			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	72		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	59		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:46
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76562

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1263.6			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	70		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	57		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:52
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76563

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1241.0			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/26/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	80		%	1	06/26/18	DD	40 - 140 %
% C13-Hexachlorobenzene	66		%	1	06/26/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:54
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76564

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1250.9			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	84		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	70		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:55
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76565

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1211.3			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	87		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	72		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

12:58
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76566

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X	680(Modified)
Air Volume (L)	1210.8			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	92		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	76		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:00
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76567

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1192.5			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	84		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	66		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:01
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76568

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1249.6			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	95		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	76		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:04
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76569

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1161			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.022	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	78		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	63		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:06
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76570

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1192			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	76		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	63		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:09
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76571

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1176			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	83		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	66		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:10
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76572

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1235			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	92		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	74		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:13
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76573

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1234			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.020	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	97		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	76		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:16
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76574

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1214			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	75		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	59		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

13:11
 14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76575

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1197			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.021	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	86		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	68		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

Analysis Report

June 27, 2018

FOR: Attn: Carlos Texidor
 Fuss & O'Neill EnviroScience, LLC
 145 Hartford Road
 Manchester, CT 06040

Sample Information

Matrix: AIR
 Location Code: F&OENVPCBDAS
 Rush Request: Standard
 P.O.#: 20170088.A9E
 Canister Id: PUF

Custody Information

Collected by: KS GI
 Received by: CP
 Analyzed by: see "By" below

Date

06/22/18
 06/22/18

Time

14:20

Laboratory Data

SDG ID: GCA76551
 Phoenix ID: CA76576

Project ID: JOHN F KENNEDY MIDDLE SCHOOL
 Client ID: 062218-26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ext. for PCB Homologs	Completed				06/25/18	X/KL/VS	680(Modified)
Air Volume (L)	1000			1	06/22/18	KS GI	

680 PCB Homologs

Chlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Dichlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Trichlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Tetrachlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Pentachlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Hexachlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Heptachlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Octachlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Nonachlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680
Decachlorobiphenyl	ND	0.025	ug/m3	1	06/27/18	DD	E680

QA/QC Surrogates

% Tetrachloro-m-xylene	92		%	1	06/27/18	DD	40 - 140 %
% C13-Hexachlorobenzene	74		%	1	06/27/18	DD	40 - 140 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

June 27, 2018

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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

QA/QC Report

June 27, 2018

QA/QC Data

SDG I.D.: GCA76551

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
-----------	-------	-----------	----------	-----------	------------	---------	----------	-----------	--------------------	--------------------

QA/QC Batch 436071 (ug/m3), QC Sample No: CA76000 (CA76551, CA76552, CA76553, CA76554, CA76555, CA76556, CA76557, CA76558, CA76559, CA76560, CA76561, CA76562, CA76563, CA76564, CA76565, CA76566)

680 PCB Homologs

Chlorobiphenyl	ND	0.025	55	60	8.7				40 - 140	30
Dichlorobiphenyl	ND	0.025	63	64	1.6				40 - 140	30
Trichlorobiphenyl	ND	0.025	68	67	1.5				40 - 140	30
Tetrachlorobiphenyl	ND	0.025	61	61	0.0				40 - 140	30
Pentachlorobiphenyl	ND	0.025	58	53	9.0				40 - 140	30
Hexachlorobiphenyl	ND	0.025	80	77	3.8				40 - 140	30
Heptachlorobiphenyl	ND	0.025	64	59	8.1				40 - 140	30
Octachlorobiphenyl	ND	0.025	55	54	1.8				40 - 140	30
Nonachlorobiphenyl	ND	0.025							40 - 140	30
Decachlorobiphenyl	ND	0.025	50	48	4.1				40 - 140	30
% Tetrachloro-m-xylene	64	%	67	70	4.4				40 - 140	30
% C13-Hexachlorobenzene	60	%	63	65	3.1				40 - 140	30

QA/QC Batch 436072 (ug/m3), QC Sample No: CA76567 (CA76567, CA76568, CA76569, CA76570, CA76571, CA76572, CA76573, CA76574, CA76575, CA76576)

680 PCB Homologs

Chlorobiphenyl	ND	0.025	60	58	3.4				40 - 140	30
Dichlorobiphenyl	ND	0.025	67	66	1.5				40 - 140	30
Trichlorobiphenyl	ND	0.025	71	73	2.8				40 - 140	30
Tetrachlorobiphenyl	ND	0.025	63	64	1.6				40 - 140	30
Pentachlorobiphenyl	ND	0.025	50	51	2.0				40 - 140	30
Hexachlorobiphenyl	ND	0.025	74	77	4.0				40 - 140	30
Heptachlorobiphenyl	ND	0.025	55	55	0.0				40 - 140	30
Octachlorobiphenyl	ND	0.025	57	57	0.0				40 - 140	30
Nonachlorobiphenyl	ND	0.025							40 - 140	30
Decachlorobiphenyl	ND	0.025	54	60	10.5				40 - 140	30
% Tetrachloro-m-xylene	85	%	75	76	1.3				40 - 140	30
% C13-Hexachlorobenzene	70	%	67	68	1.5				40 - 140	30

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

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 27, 2018

Wednesday, June 27, 2018

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCA76551 - FOENVPCBDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----	----------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill EnviroScience, LL

Project Location: JOHN F KENNEDY MIDDLE SCHOOL **Project Number:**

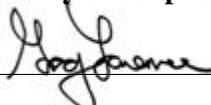
Laboratory Sample ID(s): CA76551-CA76576 **Sampling Date(s):** 6/22/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) None

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Wednesday, June 27, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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



RCP Certification Report

June 27, 2018

SDG I.D.: GCA76551

SDG Comments

No RCP analyses are included with this report. The RCP narrative is provided at the request of the client.

Homologs

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM27 06/26/18-1 Damien Drobinski, Chemist 06/26/18

CA76551, CA76552, CA76553

Initial Calibration Verification (CHEM27/680_0403):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0626_04-680_0403):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM27 06/26/18-2 Damien Drobinski, Chemist 06/26/18

CA76554, CA76555, CA76556, CA76557, CA76558, CA76559, CA76560, CA76561, CA76562, CA76563, CA76564, CA76565, CA76566, CA76567, CA76568, CA76569, CA76570, CA76571, CA76572, CA76573, CA76574, CA76575, CA76576

Initial Calibration Verification (CHEM27/680_0403):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0626_20-680_0403):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 436071 (CA76000)

CA76551, CA76552, CA76553, CA76554, CA76555, CA76556, CA76557, CA76558, CA76559, CA76560, CA76561, CA76562, CA76563, CA76564, CA76565, CA76566

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 436072 (CA76567)



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



RCP Certification Report

June 27, 2018

SDG I.D.: GCA76551

Homologs

CA76567, CA76568, CA76569, CA76570, CA76571, CA76572, CA76573, CA76574, CA76575, CA76576

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

24.1 ^{ewc}
mc

FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com

(860) 646-2469 Fax (860) 649-6883

PCBs in Air (TO-10A) Chain of Custody Form

Sheet 1 of 2

Project Name: John F. Kennedy Middle School Project No. 20170088.09E Date: 6/22/2018

Site Address: 155 Raffia Road, Enfield, CT Building Name/Number: Original School Building Project Manager: Carlos Texidor

Sample ID	Sample Location	Flow Rate (LPM)			Time		Total Time (Min)	Total Volume (Liters)	Ave Temp (°F)
		Start	End	Ave	Start	End			
062218-01	Hub ISS Room H119	4.85	4.83	4.84	0739	1222	1369.7	73.3	
062218-02	Hub Auditorium	4.82	4.87	4.85	0742	1226	1377.4	73.3	
062218-03	Hub Corridor H109 (o/s Admin)	4.75	4.76	4.75	0747	1228	1336.1	73.2	
062218-04	Admin Conference Room 2 A118	4.82	4.83	4.825	0750	1231	1355.8	73.7	
062218-05	Admin SPED Office A133	4.94	4.76	4.85	0755	1233	1367.7	74.1	
062218-06	Admin Office A116	4.72	4.71	4.715	0759	1234	1343.7	74.5	
062218-07	White Classroom 16W-a/G106	4.70	4.49	4.595	0803	1235	1254.4	74.9	
062218-08	White Classroom 22W/G220	4.84	4.80	4.86	0810	1238	1302.4	75.0	
062218-09	White Classroom 24W/G216	4.87	4.84	4.855	0814	1240	1339.9	76.4	
062218-10	White Classroom 28W/G210	4.77	4.77	4.77	0818	1242	1254.2	76.4	
062218-11	Green Custodial Office F105	4.95	4.74	4.845	0822	1245	1274.7	76.3	
062218-12	Green Faculty Lounge F117	4.89	4.83	4.86	0826	1246	1263.6	76.2	
062218-13	Blue Classroom 11B/E123	4.80	4.7	4.755	0831	1252	1241.0	76.3	
062218-14	Blue Classroom 16B/E105	4.84	4.82	4.83	0835	1254	1250.9	75.8	
062218-15	Blue Classroom 15B/E114	4.72	4.67	4.695	0837	1255	1211.3	75.8	
062218-16	Blue Classroom 22B/E220	4.70	4.65	4.675	0839	1258	1210.8	75.2	
062218-17	Blue Classroom 26B/E206	4.72	4.67	4.695	0846	1300	1192.5	75.3	
062218-18	Yellow Music Room 2/D134	4.96	4.88	4.92	0847	1301	1249.6	75.5	



FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com
(860) 646-2469 Fax (860) 649-6883

24.1 °C

062218-19	Black FACS Food Lab 37/C109	76569	4.73	4.40	4.57	0850	1304	254	1161	75.8
062218-20	Black Classroom 39/C112	76570	4.74	4.67	4.71	0853	1306	253	1192	75.9
062218-21	Red Classroom 17R/B108	76571	4.54	4.53	4.54	0900	1309	259	1176	76.5
062218-22	Red Classroom 13R/B118	76572	4.78	4.76	4.77	0901	1316	259	1235	76.1
062218-23	Red Classroom 15R/B114	76573	4.83	4.81	4.82	0907	1313	256	1234	76.5
062218-24	Red Classroom 22R/B220	76574	4.76	4.76	4.76	0909	1316	255	1214	76.7
062218-25	Duplicate	76575	4.62	4.62	4.62	0902	1311	259	1197	76.1
062218-26	Field Blank	76576	0	0	0	N/A	N/A	N/A	N/A	N/A

Analysis Method: **PCB Homologue** Laboratory: Phoenix Ave Barometric Pressure (in HG): 30.0 Ave Ambient Temp (°F): 75.4

Fax Results to the EnviroScience Laboratory at: 888-838-1160. E-Mail PDF of Results to etexidor@fando.com.

Special Instruction / Comments: Indoor Air Samples collected with PUF cartridges. DAS Rates, 5 day TAT

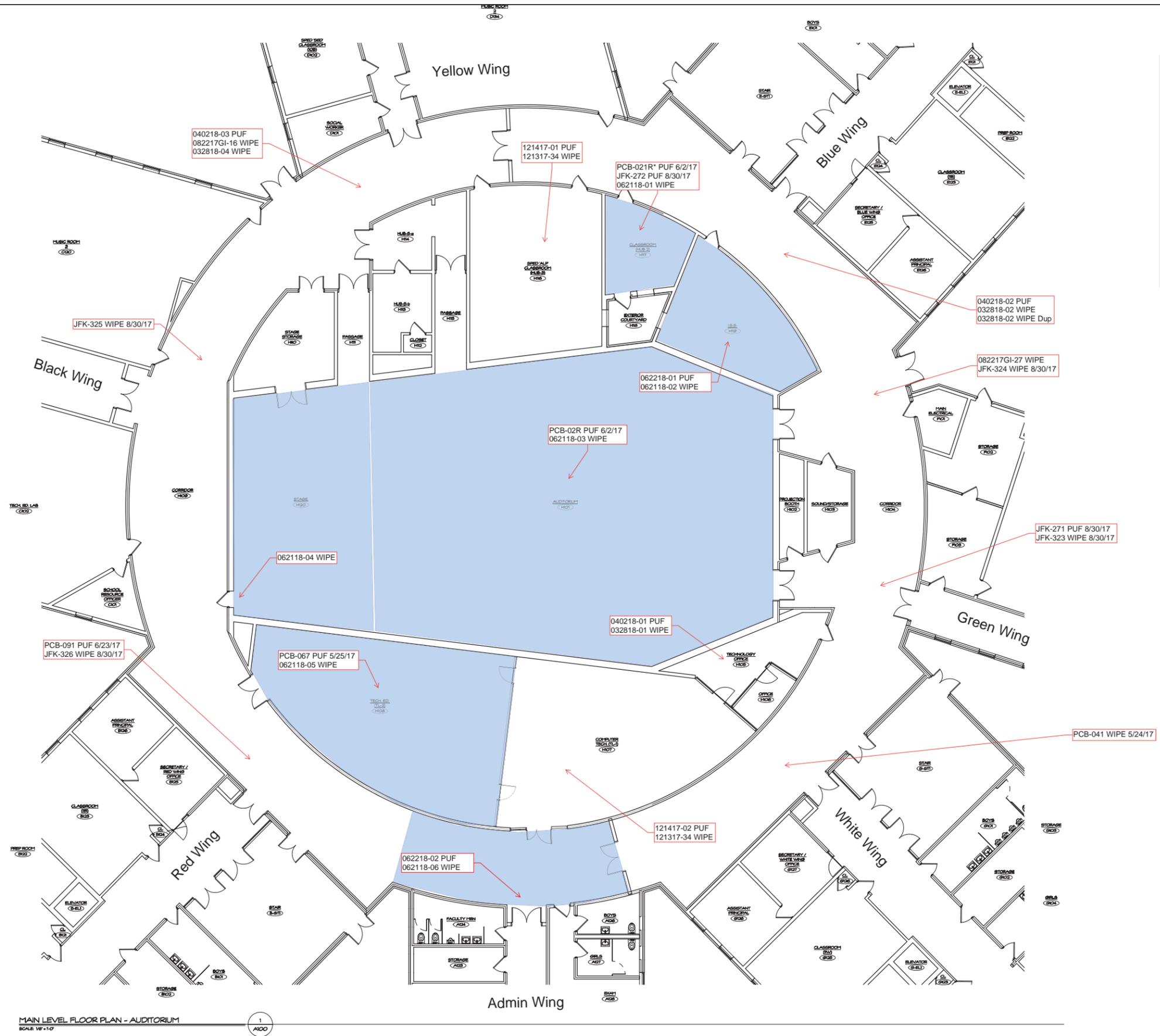
Samples Collected By: Kristina Smurkowski/Griffin Ingenito Contact Info: 203-640-0204 Date: 6/22/18

Relinquished [By][To] | [Signature] | Date: 6/22/18 Time: 1:45 PM
 Relinquished [By][To] | [Signature] | Date: 6/22/18 Time: 14:26
 Relinquished [By][To] | [Signature] | Date: _____ Time: _____

Turnaround Time: 5 Day
(72-Hour is Fastest Possible)

Appendix C

Sample Location Diagrams



KEY

- Red comment boxes indicate previous sample locations
- * Sample numbers with asterisk indicate samples that were not analyzed (accidentally destroyed in the field or lab)
- PUF** Polyurethane foam air sample
- WIPE** Hexane wipe sample from floor or window will (see COC)
- Blue polygons indicate the areas included in the most recent testing performed June 2018

MAIN LEVEL FLOOR PLAN - AUDITORIUM
SCALE: 1/8" = 1'-0"

Project Title:
 Owner
 Project Name
 Enter address here

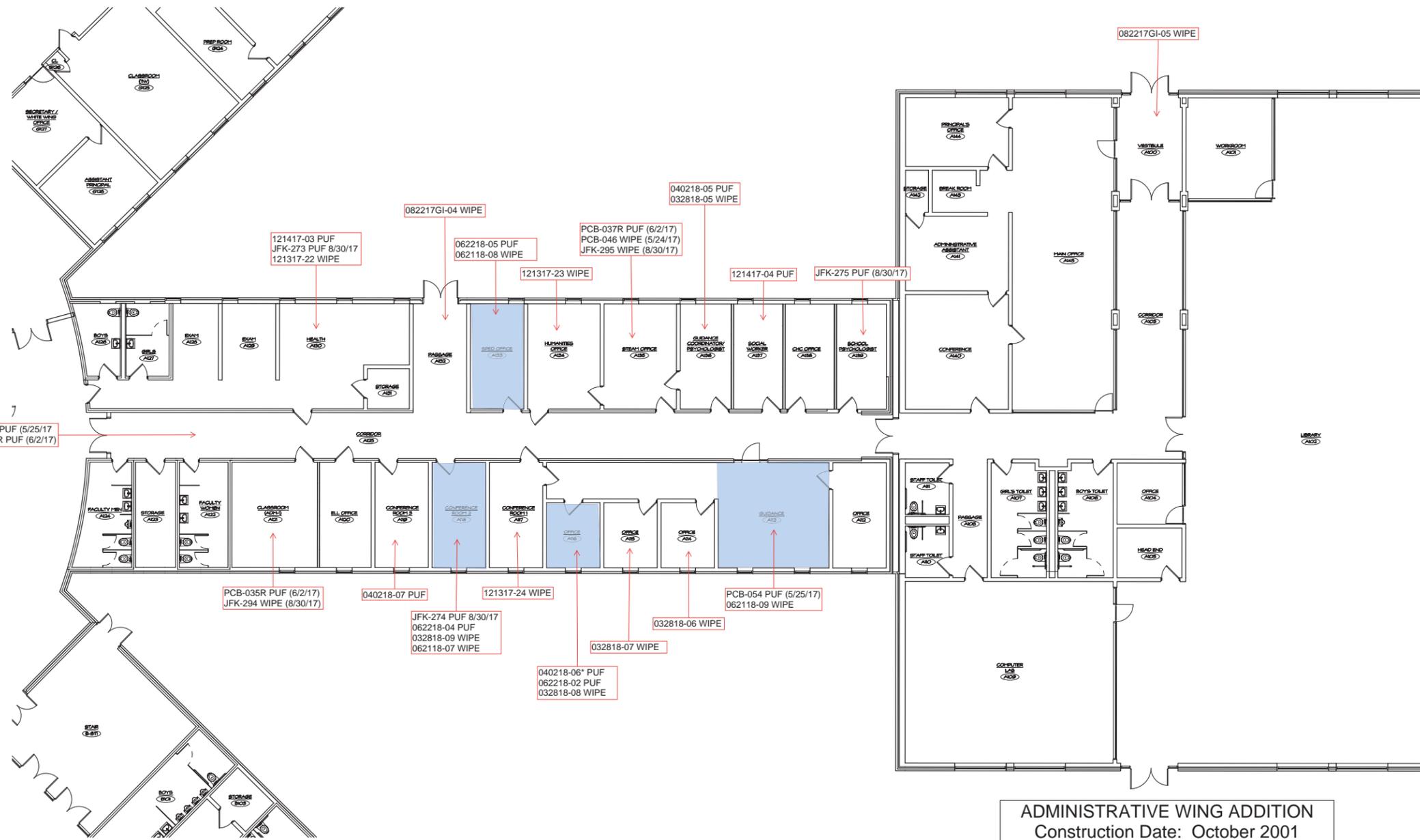


SILVER / PETRUCCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucci.com

Revision	Description	Date	Revised By
Δ	XXX	XXX	

Drawing Title:
**MAIN LEVEL FLOOR PLAN -
 AUDITORIUM**
CENTRAL HUB - PCB

Date:
 Issue Date: _____
 Scale:
 1/8" = 1'-0"
 Drawn By:
 Author:
 Project Number:
 Drawing Number:
A100



ADMINISTRATIVE WING ADDITION
Construction Date: October 2001

MAIN LEVEL FLOOR PLAN - ADMIN. WING
SCALE: 1/8" = 1'-0"
1
A101

Project Title:
Owner
Project Name
Enter address here

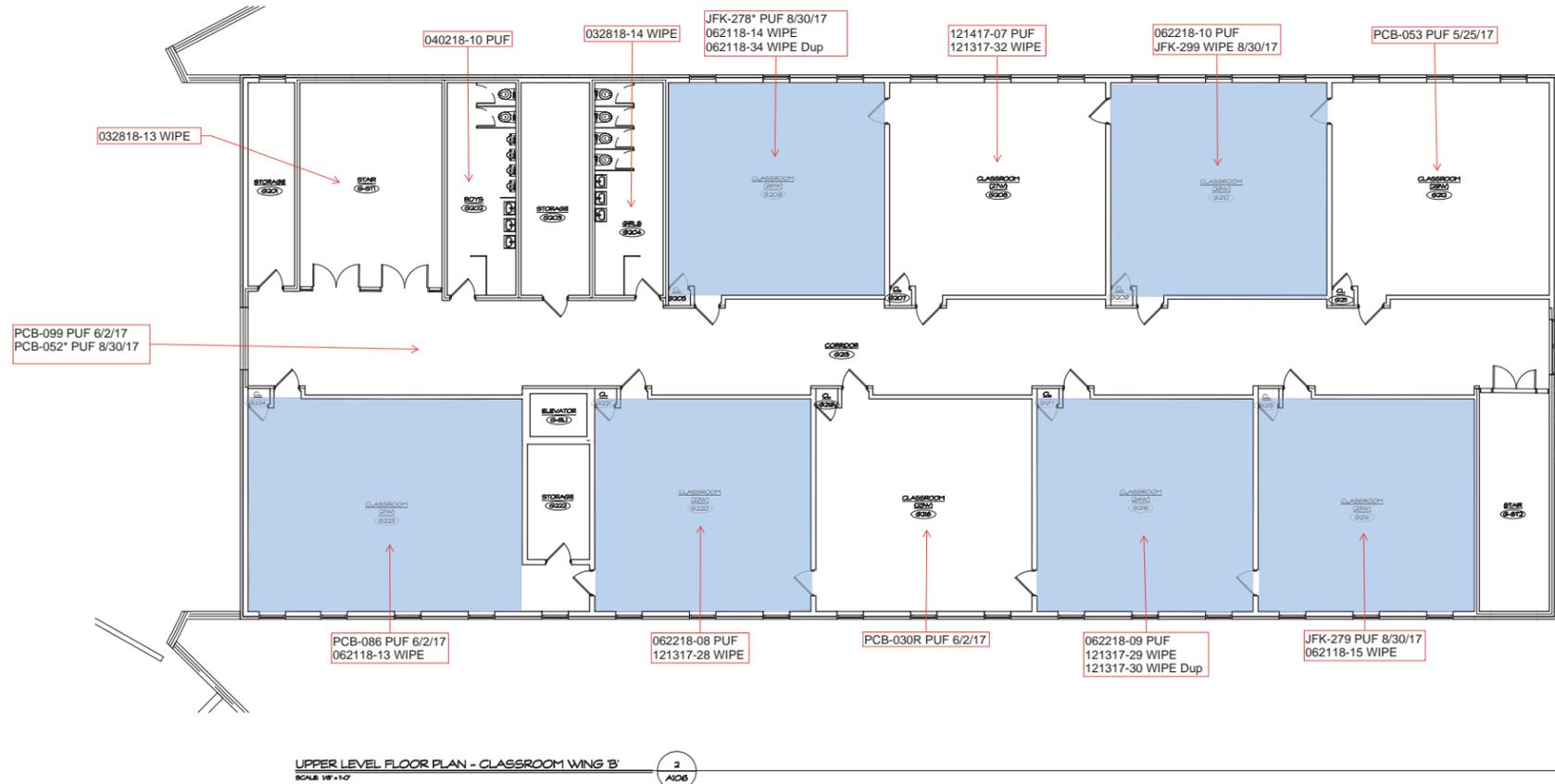
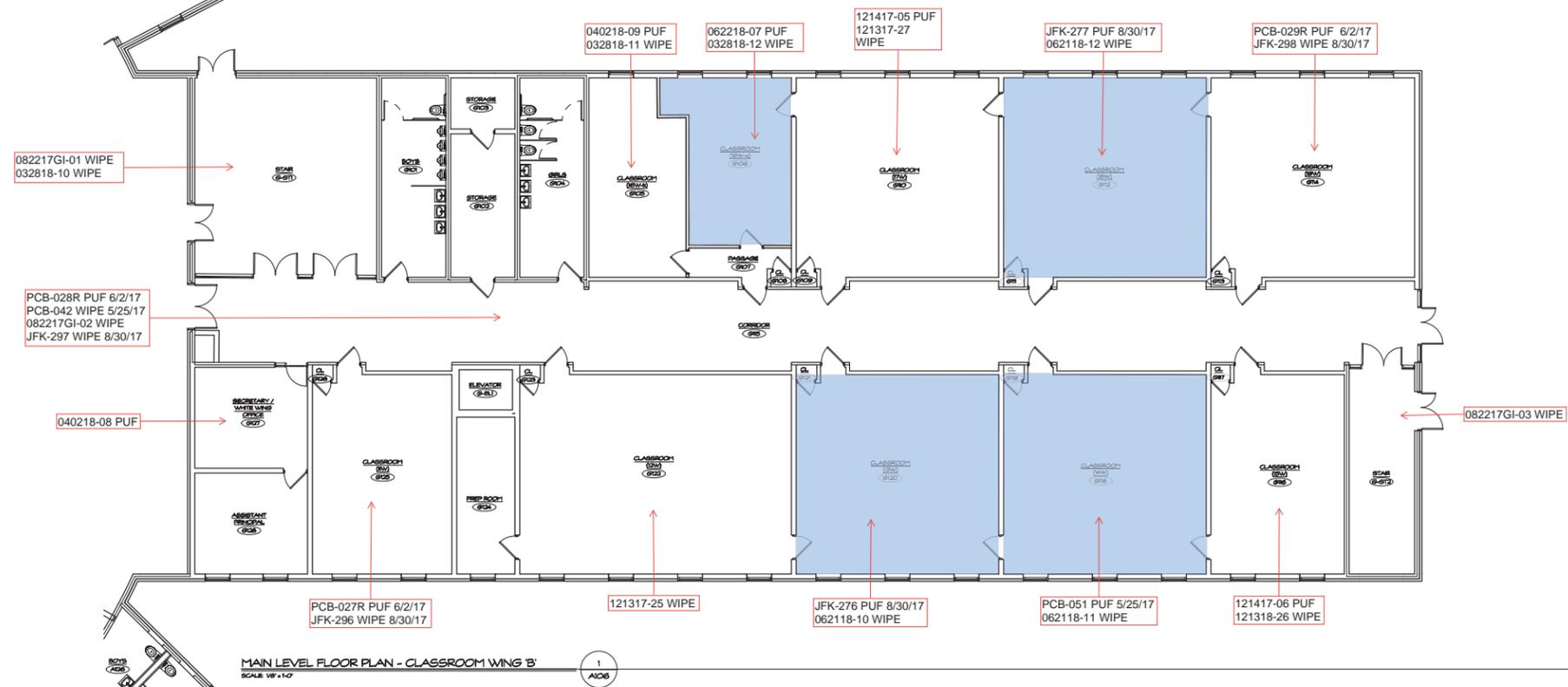


SILVER / PETRUCELLI + ASSOCIATES
Architects / Engineers / Interior Designers
3190 Whitney Avenue, Hamden, CT 06518-2340
Tel. 203 230 9007 Fax. 203 230 8247
silverpetrucelli.com

Revision	Description	Date	Revised By
XXX	XXX	XXX	

Drawing Title:
MAIN LEVEL FLOOR PLAN -
ADMIN. WING
ADMIN WING - PCB

Date:
Issue Date:
Scale:
As Indicated
Drawn By:
Author:
Project Number:
Drawing Number:
A101



Project Title:
 Owner
 Project Name
 Enter address here



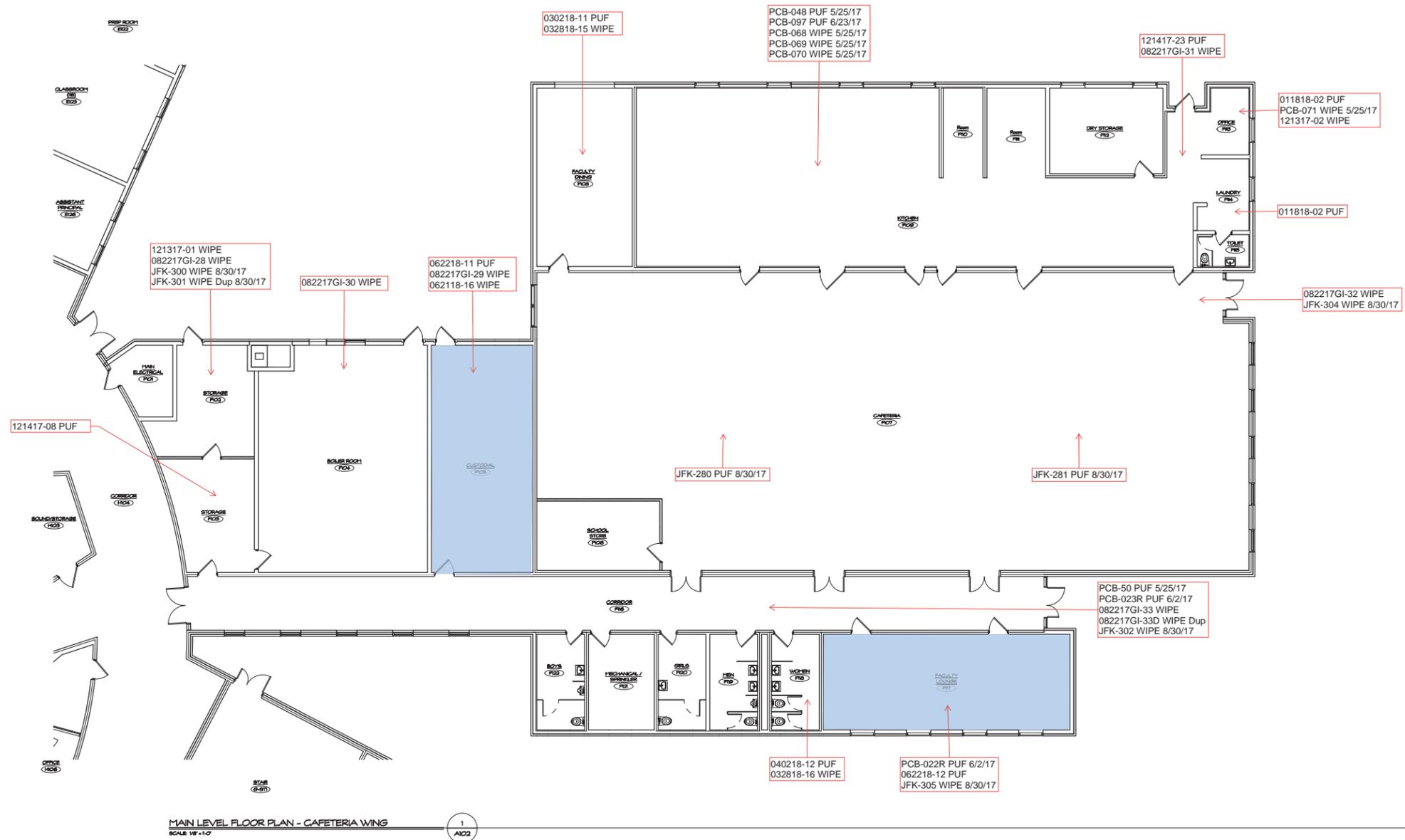
SILVER / PETRUCCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucci.com

Revision	Description	Date	Revised By
1	XXX	XXX	

Drawing Title:
 MAIN & UPPER LEVEL FLOOR
 PLAN - CLASSROOM WING 'B'
WHITE WING - PCB

Date:
 Issue Date
 Scale:
 1/8" = 1'-0"
 Drawn By:
 Author
 Project Number:
 Project Number

A106



MAIN LEVEL FLOOR PLAN - CAFETERIA WING
SCALE: 1/8" = 1'-0" 1 A102

Project Title:
 Owner
 Project Name
 Enter address here

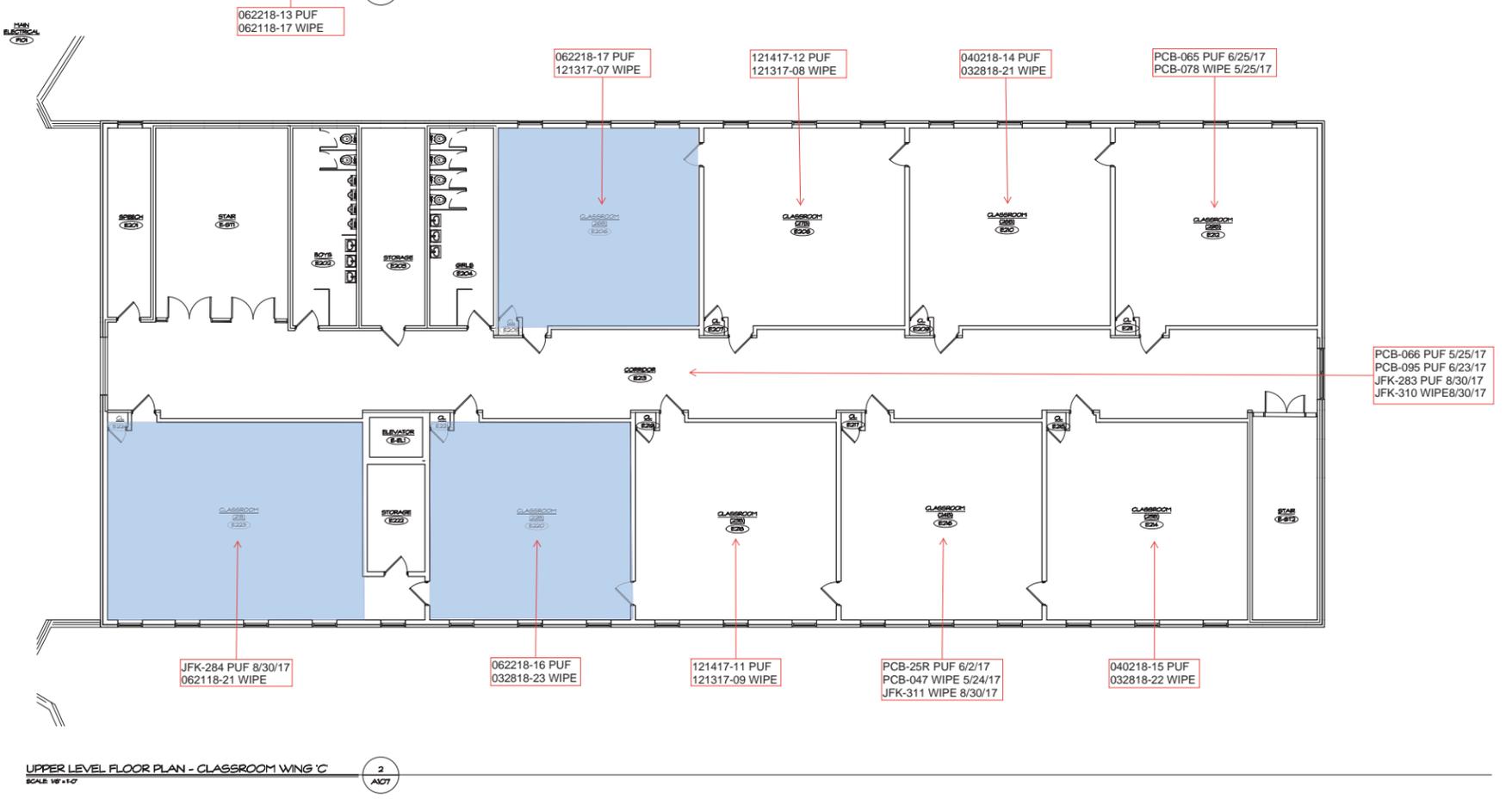
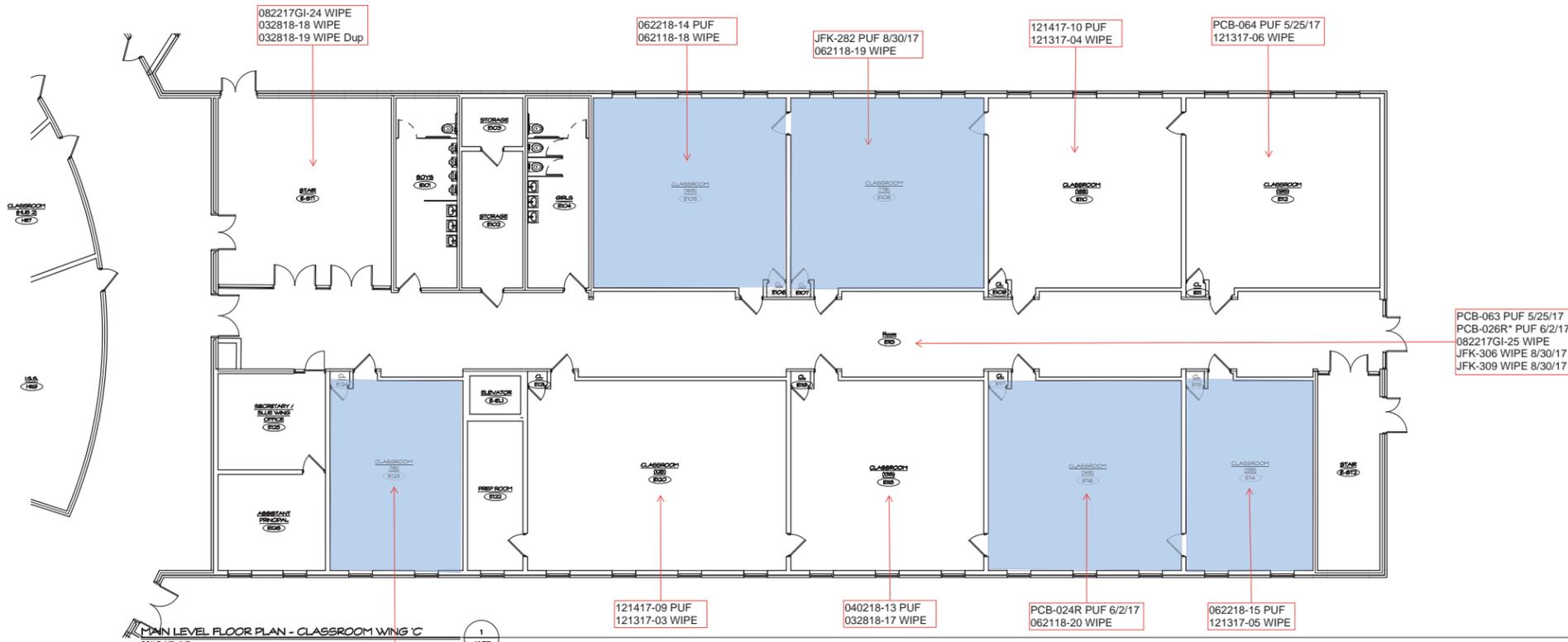


SILVER / PETRUCCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucci.com

Revision	Description	Date	Revised By
Δ	XXX	XXX	

Drawing Title:
 MAIN LEVEL FLOOR PLAN -
 CAFETERIA WING
GREEN WING - PCB

Date:
 Issue Date:
 Scale:
 1/8" = 1'-0"
 Drawn By:
 Author:
 Project Number:
 Drawing Number:
A102



SYMBOL LEGEND

- NEW METAL STUD PARTITIONS
- NEW MASONRY WALL (IF BACK VIEW)
- NEW CPU WALL
- DOOR NUMBER
- WINDOW TYPE
- ROOM NAME
- ROOM NUMBER
- PARTITION TYPE
- CONSTRUCTION NOTE
- ELEVATION/SECTION NUMBER
- SHEET NUMBER
- WALL SECTION NUMBER
- SHEET NUMBER
- INTERIOR ELEVATION NUMBER
- SHEET NUMBER
- FIRE EXTINGUISHER CABINET (RECESSED ALL LOCATIONS)
- HANDICAPPED DRINKING FOUNTAIN - SEE 3/A104
- FLOOR DRAIN - SLOPE TILE TO DRAIN
- WHITE BOARD / TACK BOARD / PEG BOARD - REFER TO DRAWING A100

- GENERAL NOTES**
1. READ ALL GENERAL NOTES ON DRAWING A001.
 2. CONTRACTORS SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.
 3. PATCH TO MATCH ALL EXISTING WALLS AND CEILING TO REMAIN AFFECTED BY NEW WORK.
 4. ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK, CONCRETE MASONRY UNITS AND METAL FRAMING UNLESS OTHERWISE NOTED.
 5. ALL NEW WALL AND PARTITION ASSEMBLIES SHALL EXTEND TO UNDERSIDE OF DECK UNLESS OTHERWISE NOTED.
 6. PROVIDE CPU WITH PRE-MANUFACTURED BULLNOSE AT ALL EXPOSED CORNERS.
 7. WHERE THE WORD 'ALIGN' IS INDICATED IT SHALL MEAN TO ALIGN BOTH SIDES OF WALL.

CONSTRUCTION NOTES - PLAN

No.	NOTE

Project Title:
 Owner
 Project Name
 Enter address here



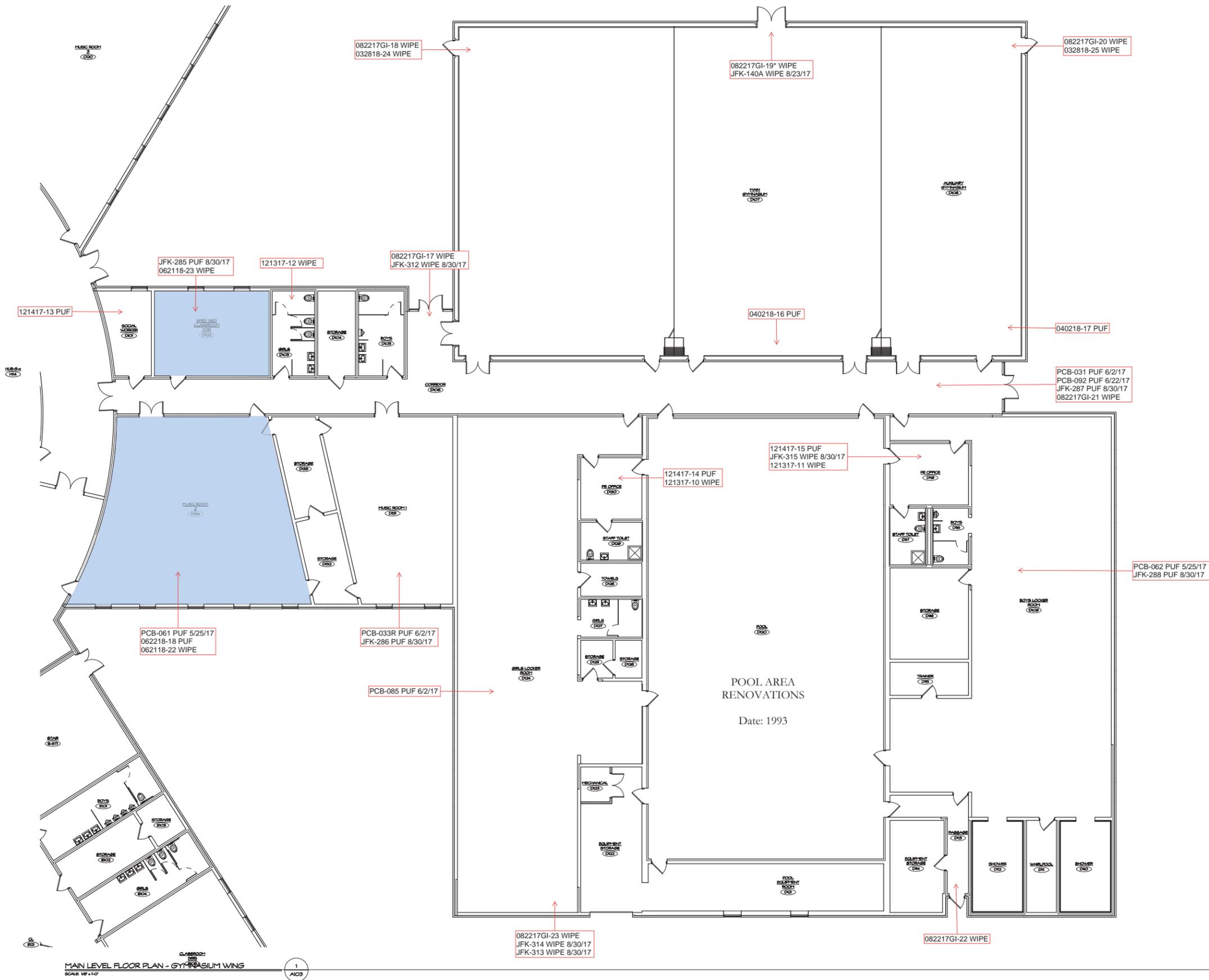
SILVER / PETRUCCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucci.com

Revision	Description	Date	Revised By
Δ	XXX	XXX	

Drawing Title:
MAIN & UPPER LEVEL FLOOR PLAN - CLASSROOM WING 'C'
BLUE WING - PCB

Date:
 Issue Date:
 Scale:
 As Indicated
 Drawn By:
 Author:
 Project Number:
 Project Number

A107



MAIN LEVEL FLOOR PLAN - GYMNASIUM WING
SCALE 1/8" = 1'-0"

Project Title:
 Owner
 Project Name
 Enter address here

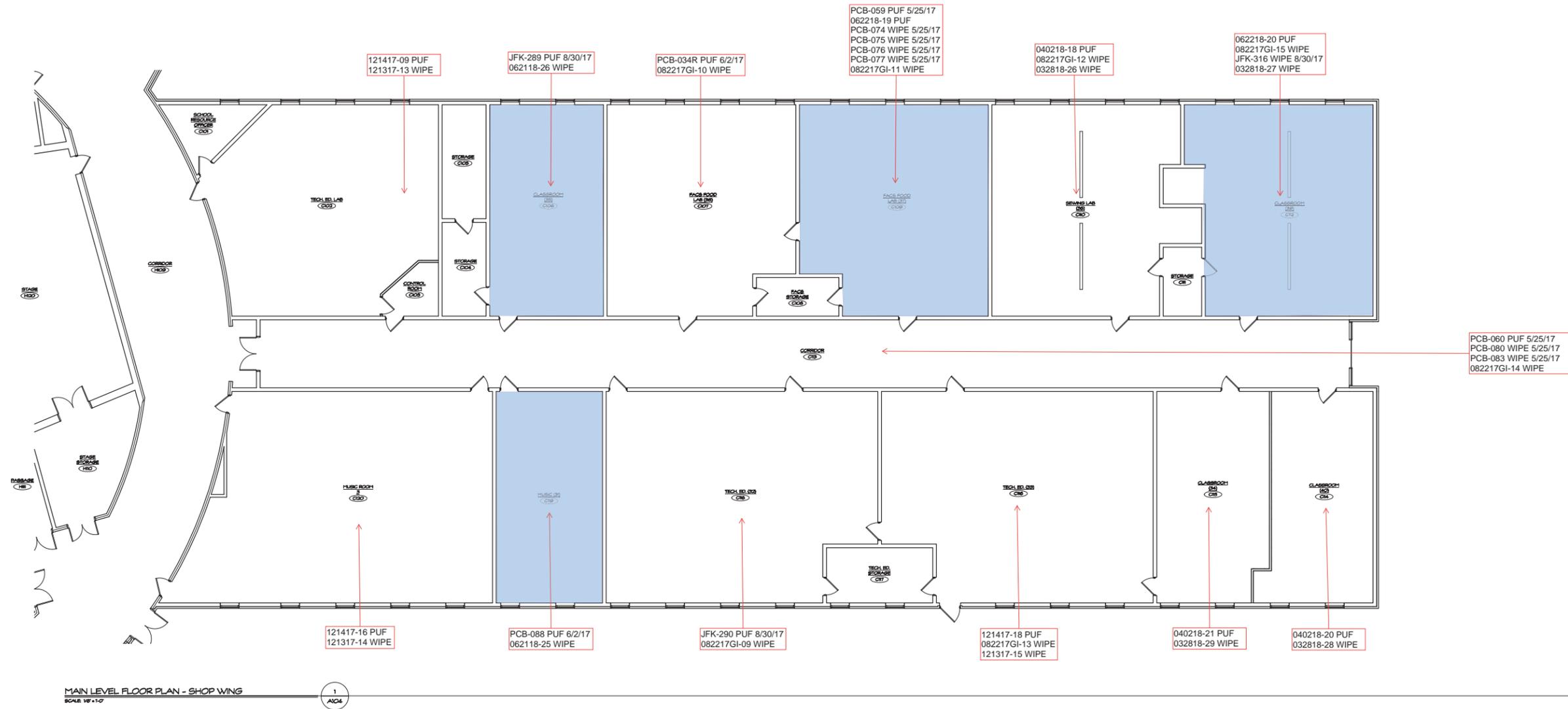


SILVER / PETRUCCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucci.com

Revision	Description	Date	Revised By
Δ	XXX	XXX	

Drawing Title:
 MAIN LEVEL FLOOR PLAN -
 GYMNASIUM WING
YELLOW WING - PCB

Date:
 Issue Date
 Scale:
 1/8" = 1'-0"
 Drawn By:
 Author
 Project Number
 Drawing Number:
A103



Project Title:
 Owner
 Project Name
 Enter address here



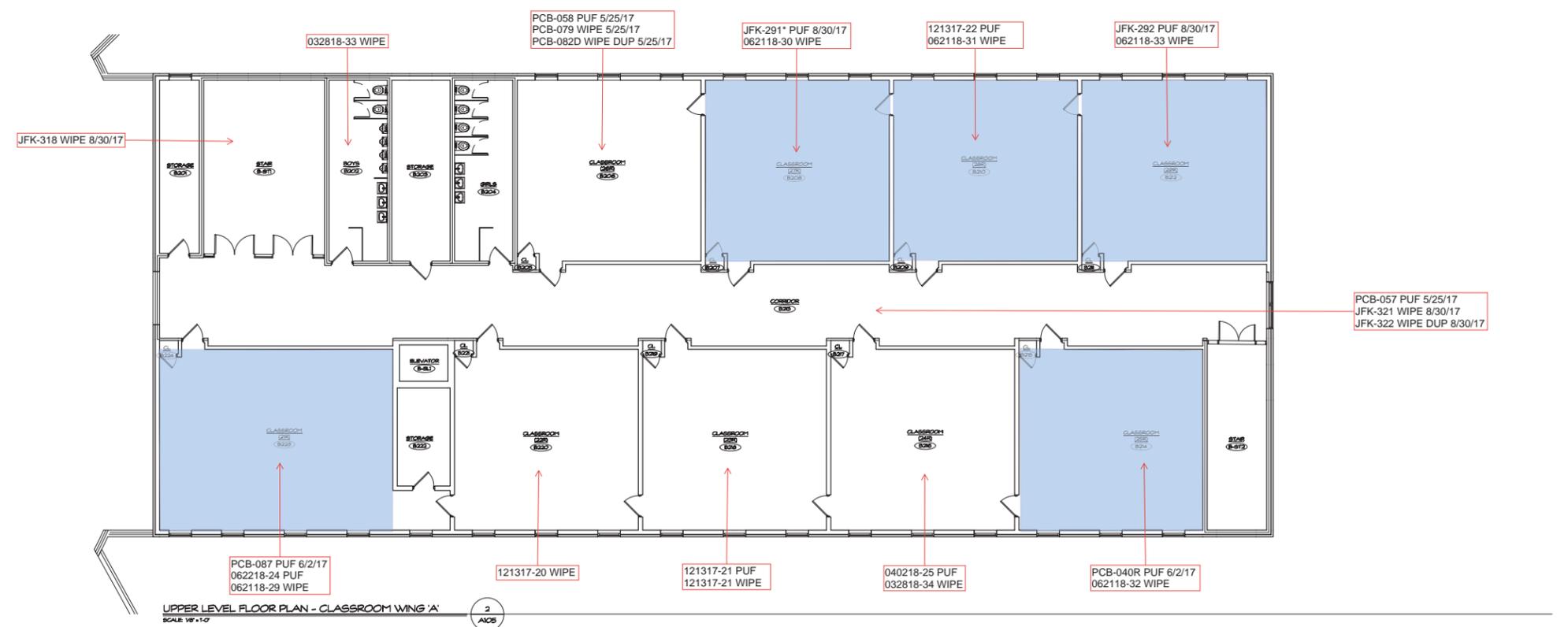
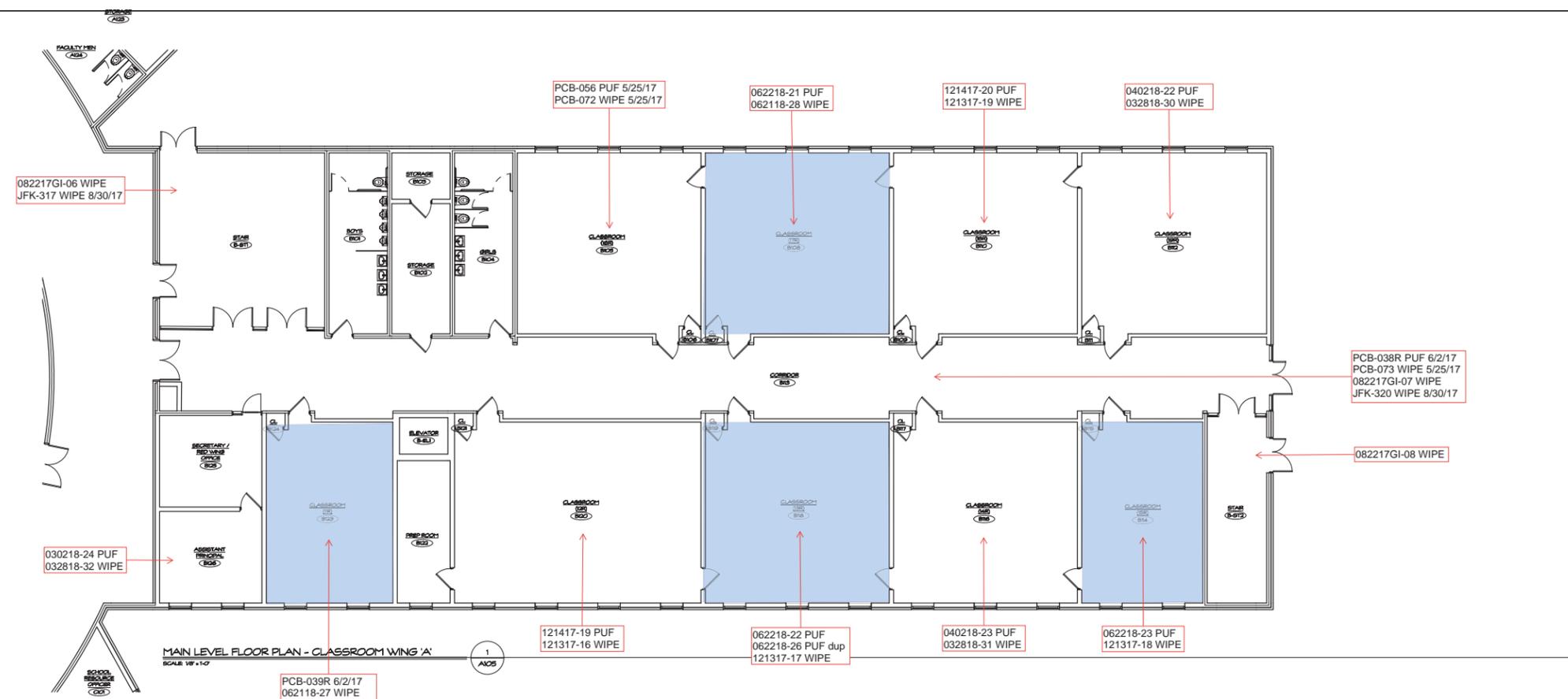
SILVER / PETRUCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucelli.com

Revision	Description	Date	Revised By
Δ	XXX	XXX	

Drawing Title:
 MAIN LEVEL FLOOR PLAN - SHOP WING
BLACK WING - PCB

Date:
 Issue Date
 Scale:
 1/8" = 1'-0"
 Drawn By:
 Author
 Project Number
 Project Number

A104



Project Title:
 Owner
 Project Name
 Enter address here



SILVER / PETRUCCELLI + ASSOCIATES
 Architects / Engineers / Interior Designers
 3190 Whitney Avenue, Hamden, CT 06518-2340
 Tel. 203 230 9007 Fax. 203 230 8247
 silverpetrucci.com

Revision	Description	Date	Revised By
Δ	XXX	XXX	

Drawing Title:
 MAIN & UPPER LEVEL FLOOR
 PLAN - CLASSROOM WING 'A'
RED WING - PCB

Date:
 Issue Date
 Scale:
 1/8" = 1'-0"
 Drawn By:
 Author
 Project Number
 Drawing Number:
A105

Appendix D

Chronological Sampling by Room Air & Wipe Results

Location	May 25, 2017	June 2, 2017		June 23, 2017		Aug 30, 2017		Dec 14, 2017 & Jan 8, 2018		April 2, 2018		June 22, 2018	
	PCBs (ng/m ³)	Sample #	PCBs (ng/m ³)	Sample #	PCBs (ng/m ³)	Sample #	PCBs (ng/m ³)	Sample #	PCBs (ng/m ³)	Sample #	PCBs (ng/m ³)	Sample #	PCBs (ng/m ³)
Blue Girl's E104													
Blue Classroom 16B/E105												062218-14	ND
Blue Classroom 17B/E108						JFK-282 JFK-293	ND ND						
Blue Classroom 18B/E110								121417-10	ND				
Blue Classroom 19B/E112	ND												
Blue Corridor E113	ND												
Blue Classroom 15B/E114												062218-15	ND
Blue Classroom 14B/E116		PCB-024R	ND										
Blue Classroom 13B/E118										040218-13	ND		
Blue Classroom 12B/E120								121417-09	ND				
Blue Classroom 11B/E123												062218-13	ND
Blue Secretary Office E125													
Blue Assistant Principal Office E126													
Blue Stair 1st Floor E-ST1													
Blue Stair 1st Floor E-ST2													
Blue Boy's E202													
Blue Girl's E204													
Blue Classroom 26B/E206												062218-17	ND
Blue Classroom 27B/E208								121417-12	ND				
Blue Classroom 28B/E210										040218-14	ND		
Blue Classroom 29B/E212	ND												
Blue Classroom 25B/E214										040218-15	ND		
Blue Classroom 24B/E216		PCB-025R	ND										
Blue Classroom 23B/E218								121417-11	ND				
Blue Classroom 22B/E220												062218-16	ND
Blue Classroom 21B/E223						JFK-284	ND						
Blue Corridor G213	ND			PCB-095	422	JFK-283	ND						
YELLOW													
Yellow Social Worker Office D101								121417-13	ND				
Yellow SPED Classroom 10B/D102						JFK-285	ND						
Yellow Girl's D103													
Yellow Boy's D105													
Yellow Corridor D106		PCB-031R	55	PCB-092	211	JFK-287	ND						
Yellow Main Gym D107		PCB-032R	97							040218-16	137		
Yellow Aux Gym D108										040218-17	106		
Yellow Boy's Locker Room D109	357					JFK-288	ND						
Yellow Boy's Locker Room Office D119								121417-15	ND				
Yellow Girl's Locker Room D124		PCB-085	ND										
Yellow Girl's Locker Rm Office D130								121417-14	ND				
Yellow Music Room 1/D131						JFK-286	ND						
Yellow Music Room 2/D134	ND											062218-18	ND
BLACK													
Black Wing Tech Ed C102								121417-17	ND				
Black Classroom 35/C106						JFK-289	ND						

