**COMMITMENT & INTEGRITY DRIVE RESULTS**

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August 22, 2019

Ms. Kimberly Tisa
PCB Coordinator
U.S. Environmental Protection Agency Region 1
5 Post Office Square – Suite 100
Boston, Massachusetts 02109-3912

Re: Long-Term Monitoring and Maintenance of Encapsulated Surfaces
2019 Monitoring Results
Fairfield Ludlowe High School – Fairfield, Connecticut

Dear Ms. Tisa:

This monitoring report has been prepared in accordance with the December 17, 2018 Monitoring and Maintenance Implementation Plan (MMIP) associated with the Fairfield Ludlowe High School located at 785 Unquowa Road in Fairfield, Connecticut. The MMIP was submitted pursuant to Condition 21 of the United States Environmental Protection Agency's (EPA) December 10, 2015 PCB Cleanup and Disposal Approval under 40 CFR 761.61(c) and 761.79(h) for the building. Although and approval from EPA has not been received, the first round of monitoring was completed in accordance with the submitted MMIP.

This letter documents the results of the 2019 inspection and monitoring activities associated with the risk-based cleanup of polychlorinated biphenyl (PCB) containing building materials completed at the subject building in 2017 and 2018, specifically the removal of caulking sealants associated with the building perimeter windows and doors and residual PCBs remaining in the building substrate materials at the completion of the remediation.

## BACKGROUND

Fairfield Ludlowe High School consists of an approximately 296,000 square foot multi-story building originally constructed in 1950. Approximately 1,500 students are currently enrolled in the school. The building has undergone multiple additions and upgrades since its original construction, including major additions in the 1960s, 1970s, and 2000s. The exterior of the building is constructed of unpainted brick/stone and masonry with steel and wood structural components. Interior building construction materials were observed to be consistent in most areas of the school and can be characterized as having vinyl tile flooring, painted drywall/CMU walls, and drop ceilings.

A window replacement project was conducted in 2017 and 2018 and included the removal and replacement of building perimeter windows and doors associated with 1950, 1960s, and 1970s portions of the building. As described in the Final Completion Report documenting the PCB remediation activities performed at the building, certain exterior and interior building substrates in the 1960's and 1970's portions of the building that were formerly in direct contact with or adjacent to former PCB caulking and containing PCBs > 1 ppm were encapsulated as a risk-based management approach under 40 CFR 761.61(c) where it was determined that physical removal was an infeasible remedial approach. Substrate materials surrounding the windows and doors in the 1950's portions of the building were determined through analytical testing to not contain residual PCBs above the cleanup goal of ≤ 1 ppm and were not encapsulated or included in this MMIP. The exception to this condition is substrate materials surrounding two windows on the north elevation of the west courtyard where results of characterization sampling conducted as part of remediation planning reported PCBs > 1 ppm in substrate materials.

Baseline masonry samples were collected following window removal and prior to encapsulation at varying distances from the former caulking to establish the extent of PCBs and limits of the encapsulating coatings. The extent of the encapsulation is summarized as follows:

- Former direct contact materials – Brick (upper floors only, as ground floor brick was removed), concrete, CMU block, and metal lintel materials formerly in direct contact with the caulking were covered with a minimum of two coats of Sikagard 62 epoxy; the epoxy is covered entirely by the new window and door frames.
- Brick – Exterior brick materials along the upper floor window and door jambs and sills were coated with two layers of Sikagard 670W clear acrylic coating (ground level brick was removed). The coating was applied to the first row of brick along the jambs and to the first three rows of brick below the sills, distances of approximately eight inches from the former caulked joints.
- Concrete – Exterior concrete materials along the windows and doors (all levels and elevations) were coated with two layers of Sikagard 670W clear acrylic coating. Over the majority of areas, the coating was applied to concrete to a distance of six inches from the joints. In two areas (Room 015 windows and Corridor 136 windows), the extent of coating was increased based on the results of verification sampling or due to aesthetic considerations;
- Lintels – Exterior lintel materials along the headers were coated in their entirety with two coats of exterior metal paint (between 3 and 5 inches in width).
- Interior CMU – The first row of interior CMU block materials was coated with two coats of interior latex finish paint (distance of 16 inches from the former joints). In addition, the latex paint was applied to the entire surface of the wall surrounding the windows and doors for aesthetic reasons.

The locations of the encapsulated surfaces are depicted on the elevation drawings presented in Attachment A.

Consistent with the Approval, visual inspections and baseline wipe samples were collected following application of the liquid coatings. Results of the wipe samples were as follows:

- Former Direct Contact Materials (Liquid Epoxy Coatings) – A total of 93 initial wipe samples were collected following application of the liquid epoxy coatings. Analytical results reported PCBs as either non-detect or ≤ 1 ug/100cm$^2$ in 78 of 93 samples collected. At those locations with PCBs reported > 1 ug/100cm$^2$, additional coatings of epoxy were applied until wipe sampling results reported PCBs as either non-detect or < 1 ug/100cm$^2$ (at two locations on the south elevation replacement window frames and caulking were applied after the additional coating but before wipe samples could be collected). The exception to this was a limited portion of the third floor on the west elevation of the 1970's building where replacement frames and caulking were installed prior to the application of an additional coating. At this location, PCBs were reported at a concentration of 1.2 ug/100cm$^2$, just slightly above the 1 ug/100cm$^2$ encapsulation target goal. Based on the reported concentration in the baseline wipe sample and the isolated nature of the surfaces (covered by replacement window frames and caulking), the coatings and replacement frames are considered adequate and effective barriers.
- Exterior Materials Away from the Joints (Sikagard 670W clear acrylic coating) - A total of 58 wipe samples were collected from encapsulated exterior surfaces away from the joints. Analytical results indicated that PCBs were either non-detect (54 samples at < 0.20 ug/100cm$^2$) or < 1 ug/100cm$^2$ (4 samples with a maximum concentration of 0.81 ug/100cm$^2$).
- Interior CMU Block Materials Away from the Joints (latex paint) - A total of 29 wipe samples were collected from encapsulated CMU block surfaces within 12 inches from the former joints. Analytical

results indicated that PCBs were non-detect in 28 of the 29 samples (< 0.20 ug/100cm$^2$) and present at a concentration of 0.33 ug/100cm$^2$ in one sample.

**MONITORING AND MAINTENANCE IMPLEMENTATION PLAN**

The following summarizes the inspections, sampling, and reporting to be conducted for the areas described above:

Visual inspections of the encapsulated surfaces will consist of the following:

- A general inspection of the condition of accessible encapsulated surfaces;
- Signs of wear, pitting, peeling, or breakages in the coatings; and
- Signs of weathering or disturbance of the replacement caulking or replacement window and door frames.
- For exterior surfaces, the visual inspections will be primarily conducted on ground level surfaces and those that are accessible by ladder. Upper level surface that are not accessible will be viewed from the ground level to the extent practicable.

Surface wipes will be collected from representative and accessible encapsulated exterior brick, concrete, and metal lintel surfaces and from interior CMU block surfaces. The wipe samples will be collected from the surfaces as follows:

- Brick (5 samples) – Brick samples will be distributed between first floor and accessible upper floor locations on an alternating basis. Based on the overall distribution of encapsulated surfaces, one sample will be collected from each of the north, south and west elevations and from surfaces within the two courtyards. Due to the location of encapsulated surfaces on the east elevation (one set of third floor windows), wipe samples are not proposed to be collected from encapsulated brick surfaces on this elevation.
- Concrete (4 samples) – Based on the limited amount of exterior concrete encapsulated, a total of 4 wipe samples will be collected from exterior concrete surfaces. The samples will be distributed between the four building elevations and courtyard areas and between accessible first and upper floor locations with at least one sample per event to be collected from surfaces in one of the two courtyards.
- Lintels (4 samples) – The samples will be distributed between the four building elevations and courtyard areas and between accessible first and upper floor locations with at least one sample per event to be collected from surfaces in one of the two courtyards.
- Interior CMU (5 samples) – One sample will be collected from rooms on the north, south, and west elevations and adjacent to each of the two courtyard areas. Due to the limited amount of encapsulated surfaces around windows on the east elevation and the transitory nature of the space (one set of windows in a third floor hallway), wipe samples are not proposed to be collected from interior CMU around windows on the east elevation.

A combination of visual inspections and laboratory sample results will be used to verify the continued effectiveness of the coatings. Upon receipt of the laboratory results after each monitoring round, the data will be compared to baseline data and the following action levels to determine whether additional monitoring or corrective measures are needed:

- At locations where sample results are reported with PCBs ≤ 1 µg/100 cm$^2$, no corrective measures will be implemented.
- At locations where sample results are reported with PCBs > 1 µg/100 cm$^2$, these or similarly representative locations will be selected for follow-up monitoring during the next round of sampling

to establish patterns or trends in concentrations. If increasing concentration trends are identified, then additional coatings may be applied and/or alternative solutions will be discussed with EPA.

## MONITORING ACTIVITIES – JUNE 2019

Woodard & Curran performed the monitoring activities on June 25, 2019. Results of the monitoring were as follows:

- According to school maintenance staff, no projects with the potential to disturb the encapsulated surfaces or secondary physical barriers were conducted since the completion of the renovation project.
- The visual inspections of the physical barriers found no signs of damage or deterioration of the barriers or replacement caulking. The visual inspections of the encapsulated surfaces found no evidence of peeling, breakage, or damage to encapsulants.
- A total of 17 surface wipe samples were collected from the encapsulated surfaces using hexane saturated gauze pads in accordance with the standard wipe test as defined in 40 CFR Part 761.123. Samples were extracted via USEPA Method 3540C (Soxhlet) and analyzed using USEPA Method 8082.

  All wipe samples were reported below the target level of 1.0 ug/100cm$^2$. The results of the wipe samples reported PCBs as non-detect in 15 of the 17 samples with reporting limits of < 0.20 ug/100cm$^2$. PCBs were detected in two wipe samples collected from metal lintel surfaces at concentrations of 0.25 and 0.48 ug/100cm$^2$.

  Of note, one of the planned surface wipe samples was inadvertently not collected during this monitoring round (one of the interior painted CMU samples). Based on a review of the baseline data and results from this round of monitoring, this sample will not be re-collected during this round. As noted below, a separate interior assessment has also been conducted and is provided under separate cover.

These results are below the project action levels presented in the MMIP and consistent with the post-encapsulation baseline data collected from encapsulated surfaces at the completion of remediation activities.

The locations of the wipe samples are presented on the elevation drawings presented in Attachment A. A summary of the analytical results is presented on Table 1 and the complete laboratory report is included as Attachment B.

## CONCLUSIONS

The 2019 inspection and sampling results indicate that the residual concentrations of PCBs in the masonry continue to be effectively encapsulated by the secondary physical barriers and the liquid coatings applied to the affected surfaces. Of note, consistent with past submittals on this project, a separate assessment of interior conditions throughout the School, including indoor air samples, was conducted with results in a separate submittal. The next monitoring event will be performed in 2020 in accordance with the MMIP.

If you have any comments, questions, or require further information, please do not hesitate to e-mail or call me at the number listed above.

Sincerely,

WOODARD & CURRAN INC.

George J. Franklin, CHMM
Technical Manager

Jeffrey A. Hamel, LSP, LEP
Senior Principal

cc: S. Morabito, Fairfield Public Schools
G. Trombley, CTDEEP

Enclosures: Table 1 – Summary of Wipe Sample Results
Attachment A – Areas of Encapsulated Surfaces and Wipe Sample Locations
Attachment B –Analytical Laboratory Report

# Table 1

**TABLE 1**

**Summary of Long Term Monitoring Wipe Sampling Results**

**Fairfield Ludlowe High School**

| Material | Location | Room # | Sample ID | Date | Location | Total PCBs (µg/100 $cm^2$) |
|---|---|---|---|---|---|---|
| Brick | North Elevation | 204 | FLHS-LTM-WB-04 | 6/25/2019 | Exterior | <0.20 |
| | South Elevation | 142 | FLHS-LTM-WB-01 | 6/25/2019 | Exterior | <0.20 |
| | West Elevation | 146 | FLHS-LTM-WB-07 | 6/25/2019 | Exterior | <0.20 |
| | West Courtyard | Bridge | FLHS-LTM-WB-11 | 6/25/2019 | Exterior | <0.20 |
| | East Courtyard | 115 | FLHS-LTM-WB-10 | 6/25/2019 | Exterior | <0.20 |
| Concrete | North Elevation | 204 | FLHS-LTM--WC-05 | 6/25/2019 | Exterior | <0.20 |
| | South Elevation | 024 | FLHS-LTM--WC-02 | 6/25/2019 | Exterior | <0.20 |
| | West Courtyard | Hallway | FLHS-LTM-WC-12 | 6/25/2019 | Exterior | <0.20 |
| | East Courtyard | 116 | FLHS-LTM-WC-09 | 6/25/2019 | Exterior | <0.20 |
| Lintel | North Elevation | 002 | FLHS-LTM--WL-03 | 6/25/2019 | Exterior | <0.20 |
| | West Elevation | 149 | FLHS-LTM-WL-06 | 6/25/2019 | Exterior | **0.25** |
| | West Elevation | 142 | FLHS-LTM-WC-08 | 6/25/2019 | Exterior | <0.20 |
| | West Courtyard | Stair 8 | FLHS-LTM-WL-13 | 6/25/2019 | Exterior | **0.48** |
| CMU | South Elevation | 314 | FLHS-LTM-WM-15 | 6/25/2019 | Interior | <0.20 |
| | West Elevation | 347 | FLHS-LTM-WM-16 | 6/25/2019 | Interior | <0.20 |
| | West Elevation | 146 | FLHS-LTM-WM-18 | 6/25/2019 | Interior | <0.20 |
| | West Courtyard | 234 | FLHS-LTM-WM-14 | 6/25/2019 | Interior | <0.20 |

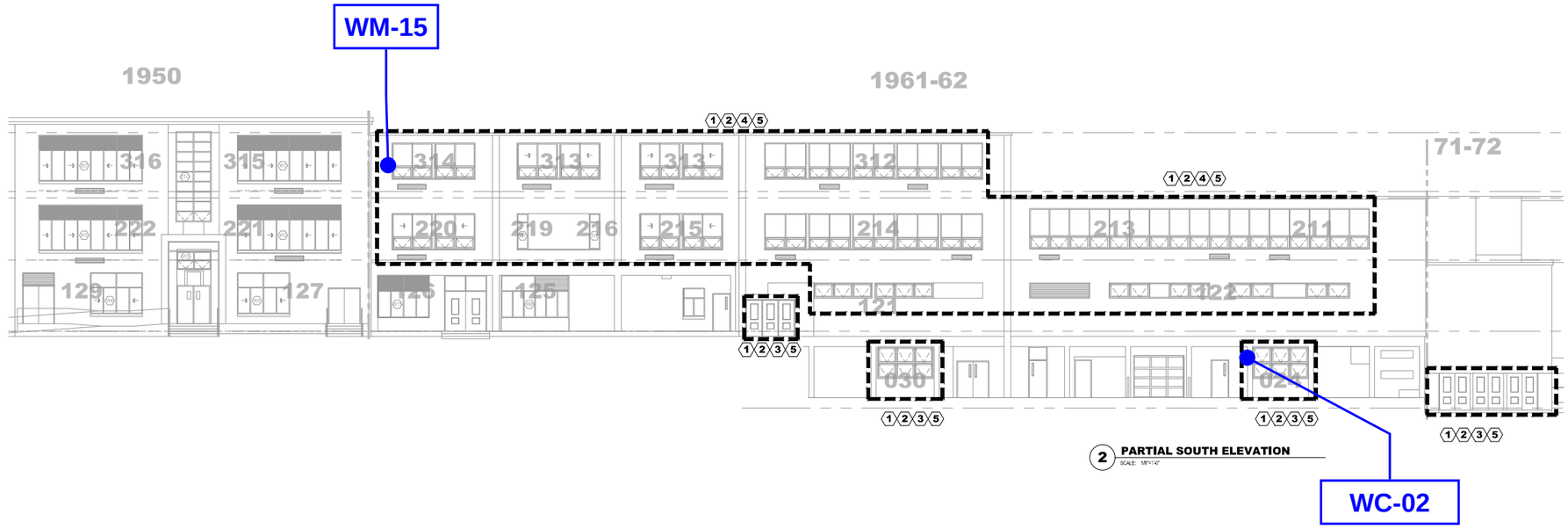
**Notes:**

Verification wipe sample collected in accordance with the standard wipe method as per 40 CFR 761.123 using a hexane saturated gauze over a 100 square centimeter area.

Samples submitted for extraction via USEPA method 3540C and analyzed for PCBs via USEPA method 8082.

# Attachment A: Areas of Encapsulated Surfaces and Wipe Sample Locations

NOTE: BASE DRAWING TAKEN FROM FAIRFIELD LUDLOWE HS WINDOW REPLACEMENT PROJECT NO. 56110.00, PHASE 3OF3, PERKINS EASTMAN, 10/14/14




2 **PARTIAL SOUTH ELEVATION**
SCALE: 1/8"=1'-0"

1 **PARTIAL SOUTH ELEVATION**
SCALE: 1/8"=1'-0"

1. BUILDING MATERIALS IN DIRECT CONTACT WITH FORMER PCB CAULKING: BUILDING MATERIAL SURFACES, INCLUDING BRICK, CONCRETE, CONCRETE MASONRY UNIT (CMU) BLOCK, AND METAL LINTEL SURFACES, WITHIN THESE JOINTS WERE ENCAPSULATED WITH TWO COATS OF SIKAGARD 62 LIQUID EPOXY. THESE ENCAPSULATED SURFACES HAVE BEEN SUBSEQUENTLY COVERED BY A SECONDARY BARRIER (CONSISTING OF NEW WINDOWS AND NEW CAULKING).

2. INTERIOR CMU BLOCK ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED WITH TWO COATS OF INTERIOR LATEX PAINT TO A DISTANCE OF 16 INCHES FROM THE FORMER JOINTS AND EXISTING WINDOW FRAMES.

3. EXTERIOR CONCRETE BUILDING MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED TO A MINIMUM DISTANCE OF SIX INCHES FROM THE EXISTING WINDOW CAULKING AND FRAMES WITH TWO COATS OF SIKAGARD 670W CLEAR ACRYLIC COATING.

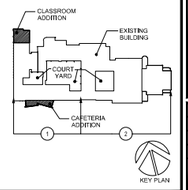
4. EXTERIOR BRICK BUILDING MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED TO A MINIMUM DISTANCE OF EIGHT INCHES ALONG THE JAMBS (ONE BRICK WIDTH) AND A MINIMUM DISTANCE OF EIGHT INCHES BELOW THE SILLS (THREE ROWS OF BRICK) FROM THE EXISTING WINDOW CAULKING AND FRAMES WITH TWO COATS OF SIKAGARD 670W CLEAR ACRYLIC COATING (EXTERIOR BRICK ON GROUND FLOOR LOCATIONS WAS REMOVED AND REPLACED).

5. EXTERIOR METAL LINTEL MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED IN THEIR ENTIRETY (APPROXIMATELY 4 INCHES FROM THE EXISTING WINDOW CAULKING AND FRAMES) WITH TWO COATS OF AN EXTERIOR ARCHITECTURAL METAL PAINT.

LEGEND:

LOCATIONS OF ENCAPSULATED SURFACES AT WINDOWS AND DOORS

WL-08 2019 WIPE SAMPLE LOCAITON AND IDENTIFIER



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|---|---|---|
| | DESIGNED BY: GF | CHECKED BY: GF |
| | DRAWN BY: PF | LHS-C004_LTM-MMP-2018.dwg |

# LOCATION OF ENCAPSULATED SURFACES AND WIPE SAMPLES SOUTH ELEVATIONS

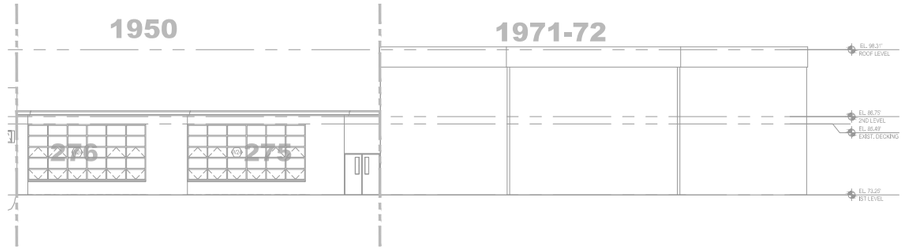
LUDLOW HIGH SCHOOL
FAIRFIELD, CONNECTICUT

**2019 Long Term Monitoring Report**

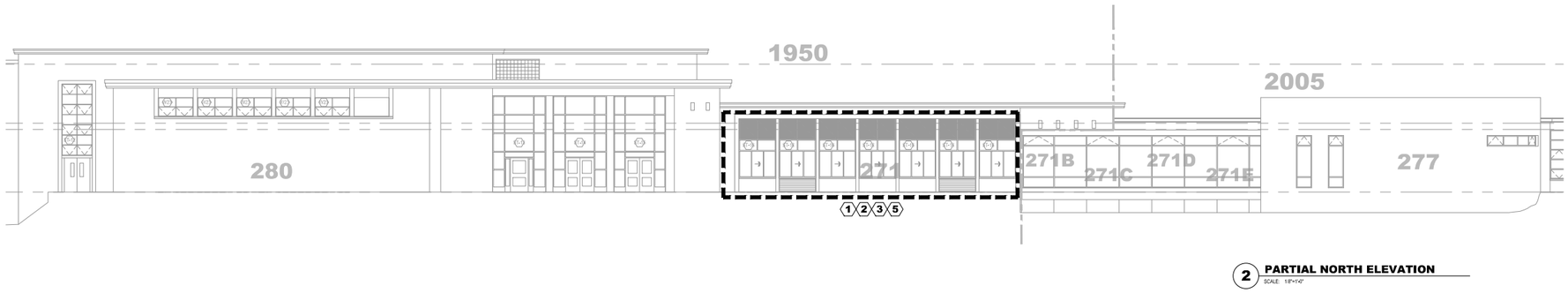
JOB NO.: 228875.00
DATE: AUGUST 2019
SCALE: AS NOTED
SHEET: 1 OF 5

FIGURE 1

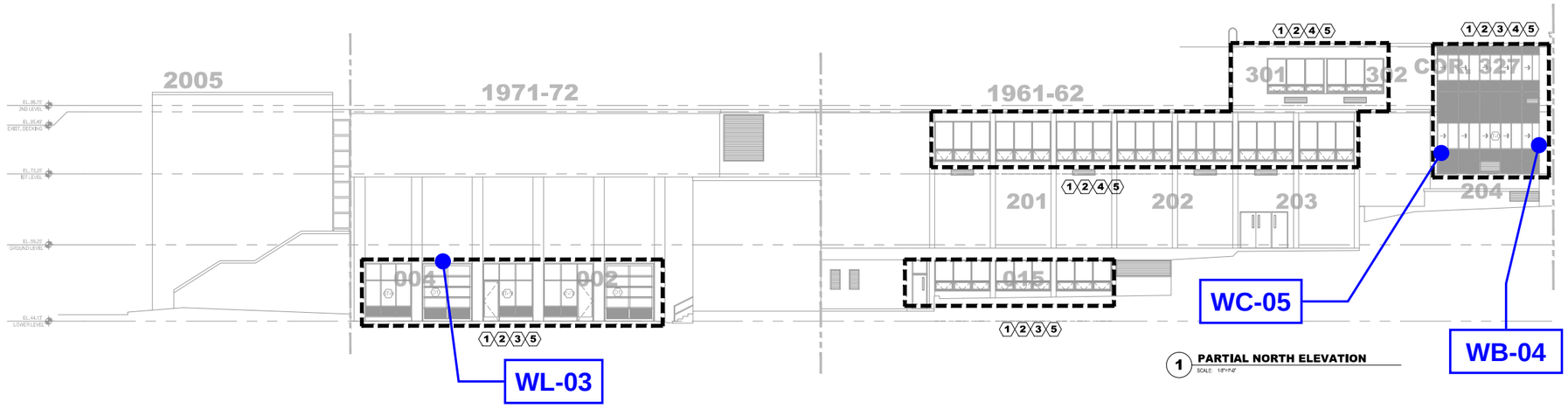
NOTE: BASE DRAWING TAKEN FROM FAIRFIELD LUDLOWE HS WINDOW REPLACEMENT PROJECT NO, 56110.00, PHASE 3OF3, PERKINS EASTMAN, 10/14/14




**3 PARTIAL NORTH ELEVATION**
SCALE: 1/8"=1'-0"




**2 PARTIAL NORTH ELEVATION**
SCALE: 1/8"=1'-0"




**1 PARTIAL NORTH ELEVATION**
SCALE: 1/8"=1'-0"

1. BUILDING MATERIALS IN DIRECT CONTACT WITH FORMER PCB CAULKING: BUILDING MATERIAL SURFACES, INCLUDING BRICK, CONCRETE, CONCRETE MASONRY UNIT (CMU) BLOCK, AND METAL LINTEL SURFACES, WITHIN THESE JOINTS WERE ENCAPSULATED WITH TWO COATS OF SIKAGARD 62 LIQUID EPOXY. THESE ENCAPSULATED SURFACES HAVE BEEN SUBSEQUENTLY COVERED BY A SECONDARY BARRIER (CONSISTING OF NEW WINDOWS AND NEW CAULKING).

2. INTERIOR CMU BLOCK ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED WITH TWO COATS OF INTERIOR LATEX PAINT TO A DISTANCE OF 16 INCHES FROM THE FORMER JOINTS AND EXISTING WINDOW FRAMES.

3. EXTERIOR CONCRETE BUILDING MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED TO A MINIMUM DISTANCE OF SIX INCHES FROM THE EXISTING WINDOW CAULKING AND FRAMES WITH TWO COATS OF SIKAGARD 670W CLEAR ACRYLIC COATING.

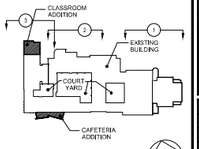
4. EXTERIOR BRICK BUILDING MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED TO A MINIMUM DISTANCE OF EIGHT INCHES ALONG THE JAMBS (ONE BRICK WIDTH) AND A MINIMUM DISTANCE OF EIGHT INCHES BELOW THE SILLS (THREE ROWS OF BRICK) FROM THE EXISTING WINDOW CAULKING AND FRAMES WITH TWO COATS OF SIKAGARD 670W CLEAR ACRYLIC COATING (EXTERIOR BRICK ON GROUND FLOOR LOCATIONS WAS REMOVED AND REPLACED).

5. EXTERIOR METAL LINTEL MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED IN THEIR ENTIRETY (APPROXIMATELY 4 INCHES FROM THE EXISTING WINDOW CAULKING AND FRAMES) WITH TWO COATS OF AN EXTERIOR ARCHITECTURAL METAL PAINT.

LEGEND:

LOCATIONS OF ENCAPSULATED SURFACES AT WINDOWS AND DOORS

WL-08 2019 WIPE SAMPLE LOCAITON AND IDENTIFIER

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CHECKED BY: GF
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LOCATION OF ENCAPSULATED SURFACES AND WIPE SAMPLES NORTH ELEVATIONS

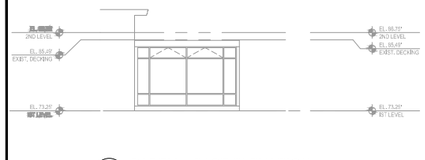
LUDLOW HIGH SCHOOL
FAIRFIELD, CONNECTICUT

**2019 Long Term Monitoring Report**

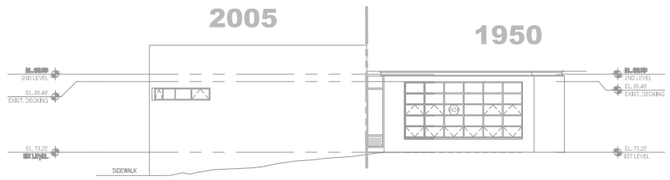
JOB NO.: 228875.00
DATE: AUGUST 2019
SCALE: AS NOTED
SHEET: 2 OF 5

FIGURE 2

NOTE: BASE DRAWING TAKEN FROM FAIRFIELD LUDLOWE HS WINDOW REPLACEMENT PROJECT NO. 56110.00, PHASE 3OF3, PERKINS EASTMAN, 10/14/14



4 **PARTIAL EAST ELEVATION**
SCALE: 1/8"=1'-0"




5 **PARTIAL WEST ELEVATION**
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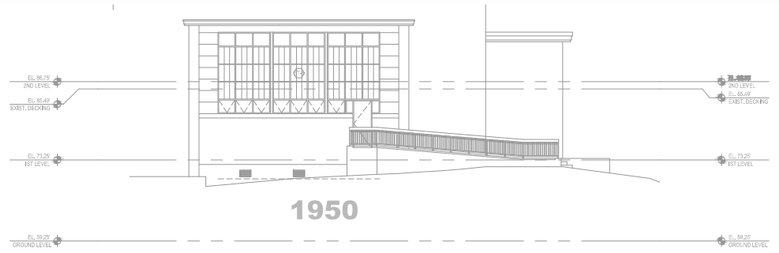


3 **PARTIAL EAST ELEVATION**
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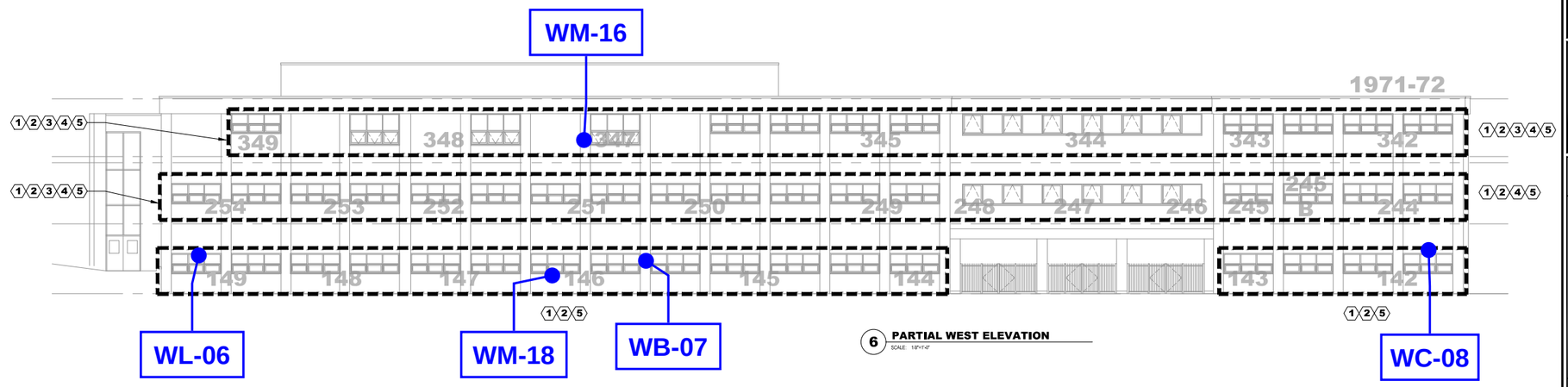
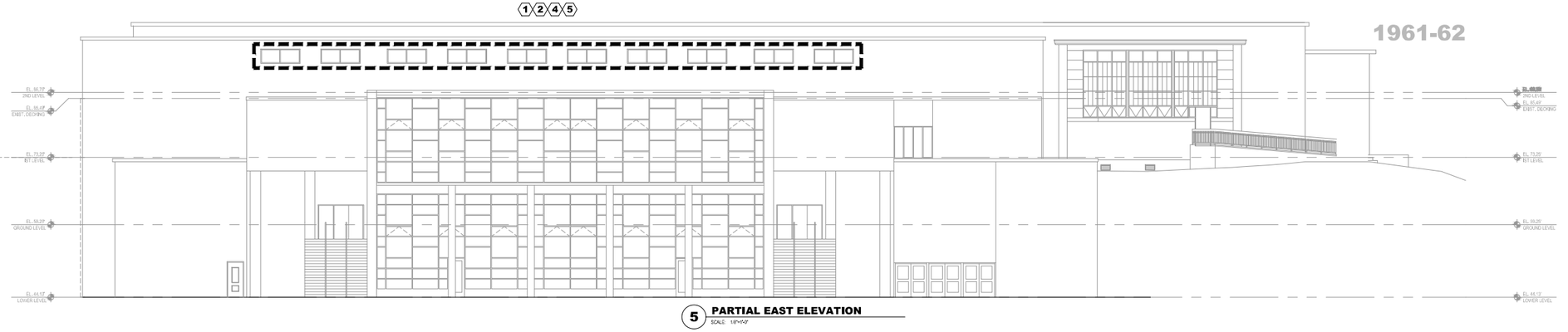



6 **PARTIAL WEST ELEVATION**
SCALE: 1/8"=1'-0"

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LOCATIONS OF ENCAPSULATED SURFACES AT WINDOWS AND DOORS

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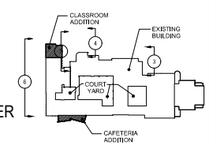


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| | CHECKED BY: GF | |
| | LHS-C20A_LTM-MMP-2018.dwg | |

# LOCATION OF ENCAPSULATED SURFACES AND WIPE SAMPLES EAST AND WEST ELEVATIONS

LUDLOW HIGH SCHOOL
FAIRFIELD, CONNECTICUT

**2019 Long Term Monitoring Report**

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DATE: AUGUST 2019
SCALE: AS NOTED
SHEET: 3 OF 5

FIGURE 3

1. BUILDING MATERIALS IN DIRECT CONTACT WITH FORMER PCB CAULKING: BUILDING MATERIAL SURFACES, INCLUDING BRICK, CONCRETE, CONCRETE MASONRY UNIT (CMU) BLOCK, AND METAL LINTEL SURFACES, WITHIN THESE JOINTS WERE ENCAPSULATED WITH TWO COATS OF SIKAGARD 62 LIQUID EPOXY. THESE ENCAPSULATED SURFACES HAVE BEEN SUBSEQUENTLY COVERED BY A SECONDARY BARRIER (CONSISTING OF NEW WINDOWS AND NEW CAULKING).

2. INTERIOR CMU BLOCK ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED WITH TWO COATS OF INTERIOR LATEX PAINT TO A DISTANCE OF 16 INCHES FROM THE FORMER JOINTS AND EXISTING WINDOW FRAMES.

3. EXTERIOR CONCRETE BUILDING MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED TO A MINIMUM DISTANCE OF SIX INCHES FROM THE EXISTING WINDOW CAULKING AND FRAMES WITH TWO COATS OF SIKAGARD 670W CLEAR ACRYLIC COATING.

4. EXTERIOR BRICK BUILDING MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED TO A MINIMUM DISTANCE OF EIGHT INCHES ALONG THE JAMBS (ONE BRICK WIDTH) AND A MINIMUM DISTANCE OF EIGHT INCHES BELOW THE SILLS (THREE ROWS OF BRICK) FROM THE EXISTING WINDOW CAULKING AND FRAMES WITH TWO COATS OF SIKAGARD 670W CLEAR ACRYLIC COATING (EXTERIOR BRICK ON GROUND FLOOR LOCATIONS WAS REMOVED AND REPLACED).

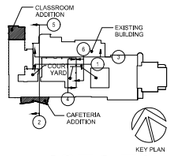
5. EXTERIOR METAL LINTEL MATERIALS ADJACENT TO FORMER PCB CAULKING: THESE SURFACES WERE ENCAPSULATED IN THEIR ENTIRETY (APPROXIMATELY 4 INCHES FROM THE EXISTING WINDOW CAULKING AND FRAMES) WITH TWO COATS OF AN EXTERIOR ARCHITECTURAL METAL PAINT.

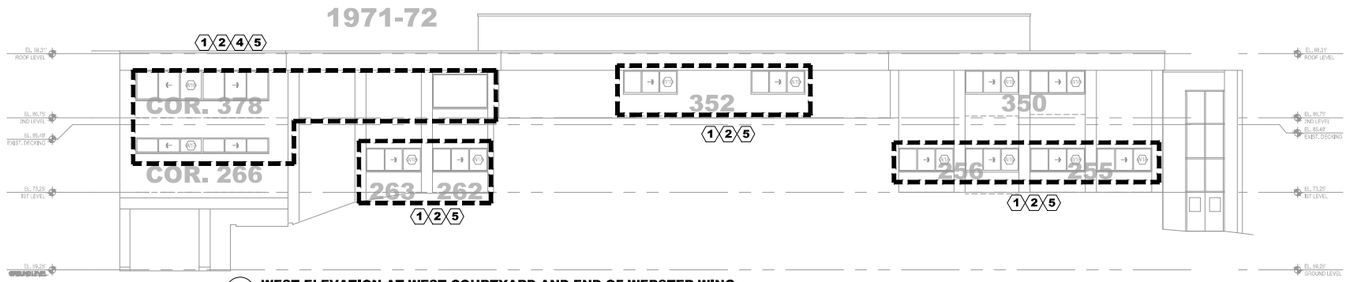
LEGEND:

LOCATIONS OF ENCAPSULATED SURFACES AT WINDOWS AND DOORS

WL-08

2019 WIPE SAMPLE LOCAITON AND IDENTIFIER




5 WEST ELEVATION AT WEST COURTYARD AND END OF WEBSTER WING
SCALE: 1/8"=1'-0"

4 EAST ELEVATION AT WEST COURTYARD
SCALE: 1/8"=1'-0"

3 NORTH ELEVATION AT WEST COURTYARD
SCALE: 1/8"=1'-0"

6 EAST ELEVATION AT WEST COURTYARD BRIDGE
SCALE: 1/8"=1'-0"

2 WEST ELEVATION AT WEST COURTYARD
SCALE: 1/8"=1'-0"

1 SOUTH ELEVATION AT WEST COURTYARD
SCALE: 1/8"=1'-0"

NOTE: BASE DRAWING TAKEN FROM FAIRFIELD LUDLOWE HS WINDOW REPLACEMENT PROJECT NO. 56110.00, PHASE 3OF3, PERKINS EASTMAN, 10/14/14



40 SHATTUCK ROAD
ANDOVER, MA 01810
978.557.8150 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

| REV | DESCRIPTION | DATE |
|---|---|---|
| | DESIGNED BY: GF CHECKED BY: GF | |
| | DRAWN BY: PF LHS-C004_LTM-MMP-2018.dwg | |

LOCATION OF ENCAPSULATED SURFACES AND WIPE SAMPLES WEST COURTYARD

LUDLOW HIGH SCHOOL
FAIRFIELD, CONNECTICUT

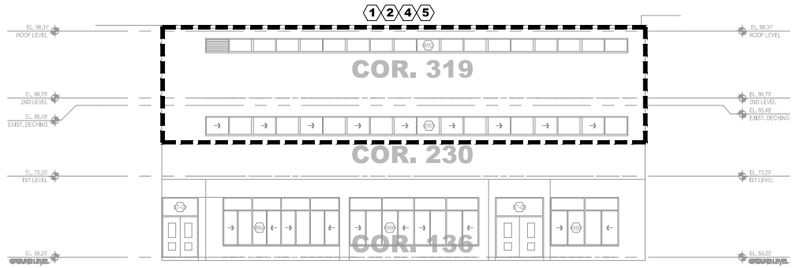
**2019 Long Term Monitoring Report**

JOB NO.: 228875.00
DATE: AUGUST 2019
SCALE: AS NOTED
SHEET: 4 OF 5

FIGURE 4

NOTE: BASE DRAWING TAKEN FROM FAIRFIELD LUDLOWE HS WINDOW REPLACEMENT PROJECT NO. 56110.00, PHASE 3OF3, PERKINS EASTMAN, 10/14/14

1961-62

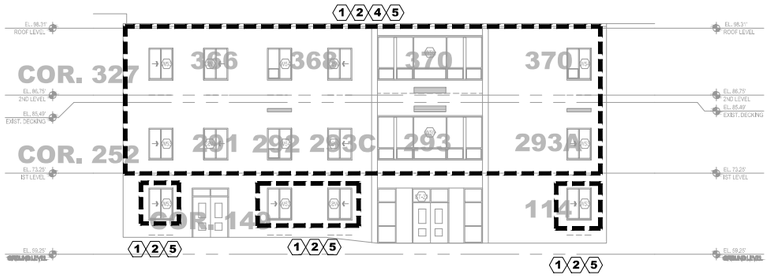



4 **SOUTH ELEVATION AT EAST COURTYARD**
SCALE: 1/8"=1'-0"

1950

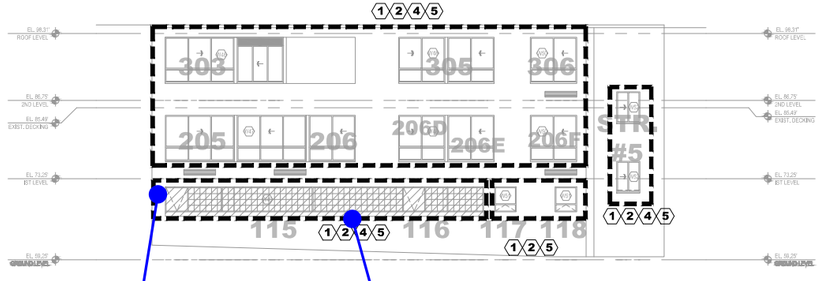

3 **WEST ELEVATION AT EAST COURTYARD**
SCALE: 1/8"=1'-0"

1961-62




2 **NORTH ELEVATION AT EAST COURTYARD**
SCALE: 1/8"=1'-0"

1961-62




1 **EAST ELEVATION AT EAST COURTYARD**
SCALE: 1/8"=1'-0"

**WB-10**

**WC-09**

1. BUILDING MATERIALS IN DIRECT CONTACT WITH FORMER PCB CAULKING: BUILDING MATERIAL SURFACES, INCLUDING BRICK, CONCRETE, CONCRETE MASONRY UNIT (CMU) BLOCK, AND METAL LINTEL SURFACES, WITHIN THESE JOINTS WERE ENCAPSULATED WITH TWO COATS OF SIKAGARD 62 LIQUID EPOXY. THESE ENCAPSULATED SURFACES HAVE BEEN SUBSEQUENTLY COVERED BY A SECONDARY BARRIER (CONSISTING OF NEW WINDOWS AND NEW CAULKING).

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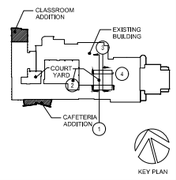
LEGEND:

LOCATIONS OF ENCAPSULATED SURFACES AT WINDOWS AND DOORS

**WL-08** 2019 WIPE SAMPLE LOCAITON AND IDENTIFIER



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WOODARD & CURRAN

| REV | DESCRIPTION | DATE |
|---|---|---|
| | DESIGNED BY: GF CHECKED BY: GF | |
| | DRAWN BY: PF | LHS-CDOA_LTM-MMP-2018.dwg |

# LOCATION OF ENCAPSULATED SURFACES AND WIPE SAMPLES EAST COURTYARD

LUDLOW HIGH SCHOOL
FAIRFIELD, CONNECTICUT

**2019 Long Term Monitoring Report**

JOB NO.: 228875.00
DATE: AUGUST 2019
SCALE: AS NOTED
SHEET: 5 OF 5

FIGURE 5

# Attachment B: Analytical Laboratory Reports

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 28, 2019

George Franklin
Woodard & Curran - CT
213 Court Street., 4th Floor
Middletown, CT 06457

Project Location: Fairfield, CT
Client Job Number:
Project Number: 228875
Laboratory Work Order Number: 19F1246

Enclosed are results of analyses for samples received by the laboratory on June 22, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

# Table of Contents

# Table of Contents (continued)

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Woodard & Curran - CT
213 Court Street., 4th Floor
Middletown, CT 06457
ATTN: George Franklin

REPORT DATE: 6/28/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 19F1246

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

PROJECT LOCATION: Fairfield, CT

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| FLHS-LTM-WB-01 | 19F1246-01 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WC-02 | 19F1246-02 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WL-03 | 19F1246-03 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WB-04 | 19F1246-04 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WC-05 | 19F1246-05 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WL-06 | 19F1246-06 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WB-07 | 19F1246-07 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WC-08 | 19F1246-08 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WC-09 | 19F1246-09 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WB-10 | 19F1246-10 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WB-11 | 19F1246-11 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WC-12 | 19F1246-12 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WL-13 | 19F1246-13 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WM-14 | 19F1246-14 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WM-15 | 19F1246-15 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WM-16 | 19F1246-16 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WM-17 | 19F1246-17 | Wipe | | SW-846 8082A | |
| FLHS-LTM-WM-18 | 19F1246-18 | Wipe | | SW-846 8082A | |

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

**CASE NARRATIVE SUMMARY**

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WB-01** | Sampled: 6/20/2019 13:01

**Sample ID: 19F1246-01**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:27 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 90.9 | 30-150 | | 6/27/19 14:27 |
| Decachlorobiphenyl [2] | 92.7 | 30-150 | | 6/27/19 14:27 |
| Tetrachloro-m-xylene [1] | 96.5 | 30-150 | | 6/27/19 14:27 |
| Tetrachloro-m-xylene [2] | 93.9 | 30-150 | | 6/27/19 14:27 |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WC-02** | Sampled: 6/20/2019 13:06

**Sample ID: 19F1246-02**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1254 [2] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:40 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 81.9 | 30-150 | | 6/27/19 14:40 |
| Decachlorobiphenyl [2] | 83.3 | 30-150 | | 6/27/19 14:40 |
| Tetrachloro-m-xylene [1] | 89.0 | 30-150 | | 6/27/19 14:40 |
| Tetrachloro-m-xylene [2] | 86.4 | 30-150 | | 6/27/19 14:40 |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WL-03** | Sampled: 6/20/2019 13:20

**Sample ID: 19F1246-03**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 14:53 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 85.8 | 30-150 | | 6/27/19 14:53 |
| Decachlorobiphenyl [2] | 87.8 | 30-150 | | 6/27/19 14:53 |
| Tetrachloro-m-xylene [1] | 91.4 | 30-150 | | 6/27/19 14:53 |
| Tetrachloro-m-xylene [2] | 88.2 | 30-150 | | 6/27/19 14:53 |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WB-04** | Sampled: 6/20/2019 13:28

**Sample ID: 19F1246-04**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:06 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 85.0 | 30-150 | | 6/27/19 15:06 |
| Decachlorobiphenyl [2] | 87.1 | 30-150 | | 6/27/19 15:06 |
| Tetrachloro-m-xylene [1] | 91.5 | 30-150 | | 6/27/19 15:06 |
| Tetrachloro-m-xylene [2] | 88.6 | 30-150 | | 6/27/19 15:06 |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WC-05** | Sampled: 6/20/2019 13:31

**Sample ID: 19F1246-05**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:19 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | | | |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl [1] | 84.9 | 30-150 | | | | 6/27/19 15:19 | |
| Decachlorobiphenyl [2] | 88.0 | 30-150 | | | | 6/27/19 15:19 | |
| Tetrachloro-m-xylene [1] | 93.6 | 30-150 | | | | 6/27/19 15:19 | |
| Tetrachloro-m-xylene [2] | 90.9 | 30-150 | | | | 6/27/19 15:19 | |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WL-06** | Sampled: 6/20/2019 13:38

**Sample ID: 19F1246-06**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1254 [2] | 0.25 | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:31 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 88.6 | 30-150 | | 6/27/19 15:31 |
| Decachlorobiphenyl [2] | 90.9 | 30-150 | | 6/27/19 15:31 |
| Tetrachloro-m-xylene [1] | 96.6 | 30-150 | | 6/27/19 15:31 |
| Tetrachloro-m-xylene [2] | 93.3 | 30-150 | | 6/27/19 15:31 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WB-07** | Sampled: 6/20/2019 13:40

**Sample ID: 19F1246-07**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:44 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 89.3 | 30-150 | | 6/27/19 15:44 |
| Decachlorobiphenyl [2] | 89.9 | 30-150 | | 6/27/19 15:44 |
| Tetrachloro-m-xylene [1] | 92.7 | 30-150 | | 6/27/19 15:44 |
| Tetrachloro-m-xylene [2] | 89.4 | 30-150 | | 6/27/19 15:44 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WC-08** | Sampled: 6/20/2019 13:44

**Sample ID: 19F1246-08**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 15:57 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | | | | |
|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl [1] | 84.2 | 30-150 | | | | 6/27/19 15:57 | |
| Decachlorobiphenyl [2] | 86.5 | 30-150 | | | | 6/27/19 15:57 | |
| Tetrachloro-m-xylene [1] | 93.4 | 30-150 | | | | 6/27/19 15:57 | |
| Tetrachloro-m-xylene [2] | 90.4 | 30-150 | | | | 6/27/19 15:57 | |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WC-09** | Sampled: 6/20/2019 13:50

**Sample ID: 19F1246-09**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 16:49 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 91.0 | 30-150 | | 6/27/19 16:49 |
| Decachlorobiphenyl [2] | 93.0 | 30-150 | | 6/27/19 16:49 |
| Tetrachloro-m-xylene [1] | 99.1 | 30-150 | | 6/27/19 16:49 |
| Tetrachloro-m-xylene [2] | 95.5 | 30-150 | | 6/27/19 16:49 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WB-10** | Sampled: 6/20/2019 13:51

**Sample ID: 19F1246-10**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:02 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 84.5 | 30-150 | | 6/27/19 17:02 |
| Decachlorobiphenyl [2] | 86.5 | 30-150 | | 6/27/19 17:02 |
| Tetrachloro-m-xylene [1] | 93.9 | 30-150 | | 6/27/19 17:02 |
| Tetrachloro-m-xylene [2] | 90.9 | 30-150 | | 6/27/19 17:02 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WB-11** | Sampled: 6/20/2019 14:08

**Sample ID: 19F1246-11**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:15 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 86.8 | 30-150 | | 6/27/19 17:15 |
| Decachlorobiphenyl [2] | 88.7 | 30-150 | | 6/27/19 17:15 |
| Tetrachloro-m-xylene [1] | 94.7 | 30-150 | | 6/27/19 17:15 |
| Tetrachloro-m-xylene [2] | 91.4 | 30-150 | | 6/27/19 17:15 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WC-12** | Sampled: 6/20/2019 14:12

**Sample ID: 19F1246-12**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:28 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 86.0 | 30-150 | | 6/27/19 17:28 |
| Decachlorobiphenyl [2] | 88.1 | 30-150 | | 6/27/19 17:28 |
| Tetrachloro-m-xylene [1] | 75.4 | 30-150 | | 6/27/19 17:28 |
| Tetrachloro-m-xylene [2] | 73.1 | 30-150 | | 6/27/19 17:28 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WL-13** | Sampled: 6/20/2019 14:17

**Sample ID: 19F1246-13**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1254 [2] | 0.48 | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:40 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 87.7 | 30-150 | | 6/27/19 17:40 |
| Decachlorobiphenyl [2] | 89.8 | 30-150 | | 6/27/19 17:40 |
| Tetrachloro-m-xylene [1] | 95.4 | 30-150 | | 6/27/19 17:40 |
| Tetrachloro-m-xylene [2] | 91.9 | 30-150 | | 6/27/19 17:40 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WM-14** | Sampled: 6/20/2019 16:00

**Sample ID: 19F1246-14**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 17:53 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 89.5 | 30-150 | | 6/27/19 17:53 |
| Decachlorobiphenyl [2] | 91.6 | 30-150 | | 6/27/19 17:53 |
| Tetrachloro-m-xylene [1] | 93.5 | 30-150 | | 6/27/19 17:53 |
| Tetrachloro-m-xylene [2] | 89.6 | 30-150 | | 6/27/19 17:53 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WM-15** | Sampled: 6/20/2019 16:04

**Sample ID: 19F1246-15**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:06 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 88.3 | 30-150 | | 6/27/19 18:06 |
| Decachlorobiphenyl [2] | 90.4 | 30-150 | | 6/27/19 18:06 |
| Tetrachloro-m-xylene [1] | 96.2 | 30-150 | | 6/27/19 18:06 |
| Tetrachloro-m-xylene [2] | 93.2 | 30-150 | | 6/27/19 18:06 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WM-16** | Sampled: 6/20/2019 17:10

**Sample ID: 19F1246-16**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:19 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 87.1 | 30-150 | | 6/27/19 18:19 |
| Decachlorobiphenyl [2] | 88.8 | 30-150 | | 6/27/19 18:19 |
| Tetrachloro-m-xylene [1] | 95.3 | 30-150 | | 6/27/19 18:19 |
| Tetrachloro-m-xylene [2] | 92.1 | 30-150 | | 6/27/19 18:19 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WM-17** | Sampled: 6/20/2019 17:10

**Sample ID: 19F1246-17**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/28/19 9:01 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 82.2 | 30-150 | | 6/28/19 9:01 |
| Decachlorobiphenyl [2] | 84.8 | 30-150 | | 6/28/19 9:01 |
| Tetrachloro-m-xylene [1] | 90.4 | 30-150 | | 6/28/19 9:01 |
| Tetrachloro-m-xylene [2] | 87.2 | 30-150 | | 6/28/19 9:01 |

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Project Location: Fairfield, CT | Sample Description: | Work Order: 19F1246

Date Received: 6/22/2019

**Field Sample #: FLHS-LTM-WM-18** | Sampled: 6/20/2019 17:35

**Sample ID: 19F1246-18**

Sample Matrix: Wipe

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1221 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1232 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1242 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1248 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1254 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1260 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1262 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |
| Aroclor-1268 [1] | ND | 0.20 | µg/Wipe | 1 | | SW-846 8082A | 6/25/19 | 6/27/19 18:45 | JMB |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 88.7 | 30-150 | | 6/27/19 18:45 |
| Decachlorobiphenyl [2] | 92.1 | 30-150 | | 6/27/19 18:45 |
| Tetrachloro-m-xylene [1] | 96.2 | 30-150 | | 6/27/19 18:45 |
| Tetrachloro-m-xylene [2] | 93.0 | 30-150 | | 6/27/19 18:45 |

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## Sample Extraction Data

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

| Lab Number [Field ID] | Batch | Initial [Wipe] | Final [mL] | Date |
|---|---|---|---|---|
| 19F1246-01 [FLHS-LTM-WB-01] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-02 [FLHS-LTM-WC-02] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-03 [FLHS-LTM-WL-03] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-04 [FLHS-LTM-WB-04] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-05 [FLHS-LTM-WC-05] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-06 [FLHS-LTM-WL-06] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-07 [FLHS-LTM-WB-07] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-08 [FLHS-LTM-WC-08] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-09 [FLHS-LTM-WC-09] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-10 [FLHS-LTM-WB-10] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-11 [FLHS-LTM-WB-11] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-12 [FLHS-LTM-WC-12] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-13 [FLHS-LTM-WL-13] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-14 [FLHS-LTM-WM-14] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-15 [FLHS-LTM-WM-15] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-16 [FLHS-LTM-WM-16] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-17 [FLHS-LTM-WM-17] | B234050 | 1.00 | 10.0 | 06/25/19 |
| 19F1246-18 [FLHS-LTM-WM-18] | B234050 | 1.00 | 10.0 | 06/25/19 |

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**QUALITY CONTROL**

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B234050 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B234050-BLK1)** | | | | Prepared: 06/25/19 Analyzed: 06/27/19 | | | | | | |
| Aroclor-1016 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1221 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1232 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1242 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1248 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1254 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1260 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1262 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1268 | ND | 0.20 | µg/Wipe | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.20 | µg/Wipe | | | | | | | |
| Surrogate: Decachlorobiphenyl | *1.67* | | µg/Wipe | 2.00 | | 83.3 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.68* | | µg/Wipe | 2.00 | | 83.9 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.75* | | µg/Wipe | 2.00 | | 87.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.66* | | µg/Wipe | 2.00 | | 83.2 | 30-150 | | | |
| **LCS (B234050-BS1)** | | | | Prepared: 06/25/19 Analyzed: 06/27/19 | | | | | | |
| Aroclor-1016 | 0.52 | 0.20 | µg/Wipe | 0.500 | | 105 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.46 | 0.20 | µg/Wipe | 0.500 | | 92.8 | 40-140 | | | |
| Aroclor-1260 | 0.47 | 0.20 | µg/Wipe | 0.500 | | 94.3 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.45 | 0.20 | µg/Wipe | 0.500 | | 89.1 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *1.77* | | µg/Wipe | 2.00 | | 88.3 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.79* | | µg/Wipe | 2.00 | | 89.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.85* | | µg/Wipe | 2.00 | | 92.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.76* | | µg/Wipe | 2.00 | | 88.1 | 30-150 | | | |
| **LCS Dup (B234050-BSD1)** | | | | Prepared: 06/25/19 Analyzed: 06/27/19 | | | | | | |
| Aroclor-1016 | 0.52 | 0.20 | µg/Wipe | 0.500 | | 103 | 40-140 | 1.37 | 30 | |
| Aroclor-1016 [2C] | 0.46 | 0.20 | µg/Wipe | 0.500 | | 92.9 | 40-140 | 0.0280 | 30 | |
| Aroclor-1260 | 0.48 | 0.20 | µg/Wipe | 0.500 | | 95.1 | 40-140 | 0.807 | 30 | |
| Aroclor-1260 [2C] | 0.46 | 0.20 | µg/Wipe | 0.500 | | 91.4 | 40-140 | 2.50 | 30 | |
| Surrogate: Decachlorobiphenyl | *1.87* | | µg/Wipe | 2.00 | | 93.4 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.88* | | µg/Wipe | 2.00 | | 94.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.84* | | µg/Wipe | 2.00 | | 91.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.76* | | µg/Wipe | 2.00 | | 88.0 | 30-150 | | | |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**FLHS-LTM-WL-06**

Lab Sample ID: 19F1246-06 Date(s) Analyzed: 06/27/2019 06/27/2019

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1254 | 1 | 0.000 | 0.000 | 0.000 | 0.24 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.25 | 4.1 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**FLHS-LTM-WL-13**

Lab Sample ID: 19F1246-13 Date(s) Analyzed: 06/27/2019 06/27/2019

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1254 | 1 | 0.000 | 0.000 | 0.000 | 0.47 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.48 | 2.1 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**LCS**

Lab Sample ID: B234050-BS1 Date(s) Analyzed: 06/27/2019 06/27/2019

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.52 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.46 | 12.2 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.47 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.45 | 4.4 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**LCS Dup**

Lab Sample ID: B234050-BSD1 Date(s) Analyzed: 06/27/2019 06/27/2019

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.52 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.46 | 12.2 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.48 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.46 | 4.3 |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit is at the level of quantitation (LOQ) |
| DL | Detection Limit is the lower limit of detection determined by the MDL study |
| MCL | Maximum Contaminant Level |

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

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

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|

**No certified Analyses included in this Report**

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

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC - ISO17025:2005 | 100033 | 03/1/2020 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2020 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2019 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2020 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2020 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2019 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2019 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2020 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2020 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2020 |
| ME | State of Maine | 2011028 | 06/9/2021 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2019 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2019 |
| VT-DW | Vermont Department of Health Drinking Water | VT-255716 | 06/12/2020 |
| NC-DW | North Carolina Department of Health | 25703 | 07/31/2019 |
| PA | Commonwealth of Pennsylvania DEP | 68-05812 | 06/30/2020 |

19F1246

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



| | |
|---|---|
| Company Name: | Woodard & Curran |
| Address: | 213 Court St, Middletown, CT, 0647 |
| Phone: | 203 271 0379 |
| Project Name: | FLHS |
| Project Location: | Fairfield CT |
| Project Number: | 228875 |
| Project Manager: | George Franklin |
| Con-Test Quote Name/Number: | |
| Invoice Recipient: | |
| Sampled By: | W. DeRosa / G. Reynolds |

**Requested Turnaround Time**
7-Day ☐ 10-Day ☐
Due Date: 5 day

**Rush-Approval Required**
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

**Data Delivery**
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: greynolds@woodardcurran.com
Fax To #: gfranklin@woodardcurran.com

ANALYTICAL REQUESTED

PCBs by SOXHLET

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code | # of Containers | Preservation Code | Container Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FLHS-LTM-WB-01 | 6/20/19 | 1301 | | X | O | U | 1 | X | A |
| 2 | FLHS-LTM-WC-02 | 6/20/19 | 1306 | | X | O | U | 1 | X | A |
| 3 | FLHS-LTM-WC-03 | 6/20/19 | 1320 | | X | O | U | 1 | X | A |
| 4 | FLHS-LTM-WB-04 | 6/20/19 | 1328 | | X | O | U | 1 | X | A |
| 5 | FLHS-LTM-WC-05 | 6/20/19 | 1331 | | X | O | U | 1 | X | A |
| 6 | FLHS-LTM-WC-06 | 6/20/19 | 1338 | | X | O | U | 1 | X | A |
| 7 | FLHS-LTM-WB-07 | 6/20/19 | 1370 | | X | O | U | 1 | X | A |
| 8 | FLHS-LTM-WC-08 | 6/20/19 | 1374 | | X | O | U | 1 | X | A |
| 9 | FLHS-LTM-WC-09 | 6/20/19 | 1350 | | X | O | U | 1 | X | A |
| 10 | FLHS-LTM-WB-10 | 6/20/19 | 1351 | | X | O | U | 1 | X | A |

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

**[1] Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) wipe

**[2] Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) Hexane

**[3] Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

| | |
|---|---|
| Relinquished by: (signature) | Date/Time: 6/22/19 1210 |
| Received by: (signature) | Date/Time: 6/22/19 1210 |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) | Date/Time: |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) | Date/Time: |

**Detection Limit Requirements**
MA
CT
Other:

**Special Requirements**
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

**Project Entity**
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

**Other**
☐ Chromatogram
☐ AIHA-LAP,LLC

**PCB ONLY**
☐ Soxhlet
☐ Non Soxhlet



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19F1246

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of 2

| | |
|---|---|
| Company Name: | Woodard + Curran |
| Address: | 213 Court St Middletown, CT 06457 |
| Phone: | 203 271 0329 |
| Project Name: | FLHS |
| Project Location: | Fairfield CT |
| Project Number: | 228875 |
| Project Manager: | George Franklin |
| Con-Test Quote Name/Number: | |
| Invoice Recipient: | |
| Sampled By: | W. Pearce / G Reynolds |

**Requested Turnaround Time**
7-Day ☐ 10-Day ☐
Due Date: 5 days

**Rush-Approval Required**
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

**Data Delivery**
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: greynolds@woodardcurran.com
Fax To #: gfranklin@woodardcurran.com

ANALYSIS REQUESTED

PCB's by Soxhlet

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1] Matrix Code | Conc Code | # of Containers | [2] Preservation Code | [3] Container Code |
|---|---|---|---|---|---|---|---|---|---|---|
| 11 | FLHS-LTM-WB-11 | 6/20/19 | 1408 | | X | O | U | 1 | O | G |
| 12 | FLHS-LTM-WB-12 | 6/20/19 | 1412 | | X | O | U | 1 | O | G |
| 13 | FLHS-LTM-WB-13 | 6/20/19 | 1417 | | X | O | U | 1 | O | G |
| 14 | FLHS-LTM-WM-14 | 6/20/19 | 1600 | | X | O | U | 1 | O | G |
| 15 | FLHS-LTM-WM-15 | 6/20/19 | 1604 | | X | O | U | 1 | O | G |
| 16 | FLHS-LTM-WM-16 | 6/20/19 | 1710 | | X | O | U | 1 | O | G |
| 17 | FLHS-LTM-WM-17 | 6/20/19 | 1710 | | X | O | U | 1 | O | G |
| 18 | FLHS-LTM-WM-18 | 6/20/19 | 1735 | | X | O | U | 1 | O | G |
| | | | | | | | | | | |
| | | | | | | | | | | |

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

**[1] Matrix Codes:**
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Comments:

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

| | | |
|---|---|---|
| Relinquished by: (signature) | Date/Time: | |
| Received by: (signature) | Date/Time: | |
| Relinquished by: (signature) | Date/Time: | |
| Received by: (signature) | Date/Time: | |
| Relinquished by: (signature) | Date/Time: | |
| Received by: (signature) | Date/Time: | |

Relinquished by: (signature) WCN — Date/Time: 6/22/19 1210
Received by: (signature) — Date/Time: 6/22/19 1210

**Detection Limit Requirements**
MA
CT
Other:

**Special Requirements**
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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**Project Entity**
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☐ City ☐ Brownfield ☐ MBTA

**Other**
☐ Chromatogram
☐ AIHA-LAP,LLC

**PCB ONLY**
☐ Soxhlet
☐ Non Soxhlet



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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

**Client** W+C

**Received By** RAP Date 6/22/17 Time 1210

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

Were samples within Temperature? 2-6°C T By Gun # 4 Actual Temp - 4.4 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

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

Are there Rushes? F Who was notified? ____

Are there Short Holds? F Who was notified? ____

Is there enough Volume? T

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

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

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid ____ Base ____

| Vials | # | Containers: | # | | # | | # |
|---|---|---|---|---|---|---|---|
| Unp- | | 1 Liter Amb. | | 1 Liter Plastic | | 16 oz Amb. | |
| HCL- | | 500 mL Amb. | | 500 mL Plastic | | 8oz Amb/Clear | |
| Meoh- | | 250 mL Amb. | | 250 mL Plastic | | 4oz Amb/Clear | 18 |
| Bisulfate- | | Flashpoint | | Col./Bacteria | | 2oz Amb/Clear | |
| DI- | | Other Glass | | Other Plastic | | Encore | |
| Thiosulfate- | | SOC Kit | | Plastic Bag | | Frozen: | |
| Sulfuric- | | Perchlorate | | Ziplock | | | |

**Unused Media**

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

**Comments:**

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

***Laboratory Name:*** Con-Test Analytical Laboratory

***Client:*** Woodard & Curran - CT

***Project Location:*** Fairfield, CT

***Project Number:*** 19F1246

***Laboratory Sample ID(s):***

19F1246-01 thru 19F1246-18

***Sample Date(s):***

06/20/2019

*List RCP Methods Used:*

SW-846 8082A

| | | |
|---|---|---|
| **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 CTDEP method-specific Reasonable Confidence Protocol documents? | ☑ Yes ☐ No |
| **1A** | Were the method specified preservation and holding time requirements met? | ☑ Yes ☐ No |
| **1B** | VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? | ☐ Yes ☐ No ☑ N/A |
| **2** | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)? | ☑ Yes ☐ No |
| **3** | Were samples received at an appropriate temperature (< 6 degrees C.)? | ☑ Yes ☐ No ☐ N/A |
| **4** | Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved? | ☑ Yes ☐ No |
| **5A** | Were reporting limits specified or referenced on the chain-of-custody? | ☐ Yes ☑ No |
| **5B** | Were these reporting limits met? | ☐ Yes ☐ 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? | ☑ Yes ☐ No |
| **7** | Are project-specific matrix spikes and laboratory duplicates included in this data set? | ☐ Yes ☐ 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.

Lisa A. Worthington

**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:** Lisa Worthington **Position:** Technical Representative

**Printed Name:** Lisa A. Worthington **Date:** 06/28/19

**Name of Laboratory:** Con-Test Analytical Laboratory

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