

# **REMEDIAL ACTION REPORT AOC- 1 - STATION B COMPLETION OF PCB CONCRETE REMOVAL**

*Site Location*

**English Station Facility  
510 Grand Avenue  
New Haven, CT**

*Site Owner*

**Evergreen Power, LLC**  
Corporation Trust Center  
1209 Orange Street  
Wilmington, Delaware 19805

*Certifying Party*

**United Illuminating Company**  
180 Marsh Hill Road  
Orange, Connecticut 06477



October 2018

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**United Illuminating Company**  
180 Marsh Hill Road  
Orange, Connecticut 06477

TRC Project No. 263951  
October 2018

**TRC Environmental Corporation**  
21 Griffin Road North  
Windsor, Connecticut 06095  
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### ABBREVIATIONS

- AEI – Advanced Environmental Interface
- CFR – Code of Federal Regulations
- CTDEEP - Connecticut Department of Energy and Environmental Protection
- Evergreen – Evergreen Power, LLC
- HASP - Health and Safety Plan
- HEPA – High Efficiency Particulate Absorber

mg/Kg - milligrams per kilogram  
μg/L – micrograms per liter  
μg/100cm<sup>2</sup> – micrograms per 100 square centimeters  
PPE - Personal Protective Equipment  
ppm – part per million  
PCBs - Polychlorinated Biphenyls  
PCO – Partial consent Order  
RAP - Remedial Action Plan  
RAR - Remedial Action Report  
TRC - TRC Environmental Corporation  
TSCA - Toxic Substance Control Act  
UI – United Illuminating Company  
US EPA – United States Environmental Protection Agency

## 1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has been retained by The United Illuminating Company (UI) to provide Licensed Environmental Professional (LEP) services as they relate to adherence to and completion of all tasks outlined in Partial Consent Order (PCO) COWSPCB 15-001. On August 4, 2016, the PCO pertaining to environmental matters at an approximate 8.9-acre parcel of land located at 510 Grand Avenue in New Haven, Connecticut known as “English Station” (the “Site”), see Figure 1-1, became effective. For the purposes of the PCO, the Site includes the two main buildings (known as English Station and Station B), several smaller buildings and all associated structures located on the 510 Grand Avenue parcel of land, as well as the soil, sediment, groundwater and surface water located within the confines of the perimeter of the Site. TRC prepared a Remedial Action Plan (RAP) entitled “AOC-1 – Station B – Completion of PCB Concrete Removal” dated March 2018. The RAP was submitted to the United States Environmental Protection Agency (USEPA) Region 1 and the Connecticut Department of Energy and Environmental Protection (CTDEEP) on March 19, 2018. Comments received from USEPA concerning figures contained in the RAP were incorporated into revised figures sent by UI on March 23, 2018. On April 10, 2018 USEPA issued notice to UI via e-mail notice of acceptance of the RAP with revised figures, contingent upon collection of four (4) additional concrete verification samples (CO666, CO676, CO682 & CO692). On May 9, 2018 UI issued 30 day notice via overnight delivery to USEPA to commence with the work under the RAP with revised figures and additional verification samples (Appendix H). Mobilization to begin the work commenced the last week of May 2018 to erect scaffolding protection. Scabbling work began on June 12, 2018.

TRC provided oversight of the work performed and provides this Remedial Action Report (RAR) documenting work of the contractor (Clean Harbors) for the removal of concrete from the upper surface of the first floor slab impacted by historical releases of PCBs in accordance with the RAP as described above. TRC was also responsible for collecting all of the verification concrete samples, equipment decontamination wipe samples and drummed water samples. Station B is owned by Evergreen Power, LLC (Evergreen). UI is the certifying party in accordance with the PCO. This RAR documents the approach and procedures that TRC and Clean Harbors followed to achieve the remedial objectives.

This RAR addresses only those portions of the Station B first floor reinforced concrete slab that had remaining PCB concentrations equal to or greater than 1 mg/kg (ppm) as delineated by others during prior characterization and remediation activities.

### 1.1 General Facility Description

The Site is located at 510 Grand Avenue in the City of New Haven, Connecticut and consists of approximately 8.9 acres of land on the southern end of an island (Ball Island) located within the Mill River. Between 2000 when the Site was transferred from UI to Quinnipiac Energy, LLC (QE), and in 2006 when QE sold the northern portion (Parcel A) of the property, including Station B, to Evergreen Power, LLC (Evergreen) and the southern portion (Parcel B) to ASNAT Realty, LLC (ASNAT), the Site was divided into two separate parcels. “Parcel A” (the northern portion) is approximately 3.58 acres in size. The remainder of the property, identified as “Parcel B”, encompasses the southern portion of the Site and is approximately 5.32 acres in size. Parcel B is occupied by the English Station power generating plant (“the Plant” or “English Station”). The Site as a whole is bounded to the east, west and south by the Mill River (note that the water-facing sides of the Site are bulk-headed) and to the north by Grand Avenue. The parcel boundaries and general Site layout are shown on Figure 1-2.

### 1.2 AOC 1 Station B Description

Station B consists of the northern portion of a former power plant constructed circa 1890 and is a two-story structure that occupies a footprint of approximately 25,000 square feet. Station B is immediately adjacent to Grand Avenue, which runs along the Site’s northern property boundary. Station B is constructed of brick exterior walls with interior steel framing. A basement is present beneath the first floor of the building (GEI, 1998a). A second story office area occupies the eastern end of the building and a mezzanine is present above the first floor along the northern wall of the building.

Station B reportedly ceased power generation in the 1920s, which was before PCBs were brought into commercial use in the electrical power industry. However, PCB equipment destined

for disposal was stored in an Annex III area in that building after the initial PCB regulations were promulgated in 1978.

### 1.3 Previous Environmental Investigations of Station B

On behalf of the building owner, a single concrete “chip” sample was collected from the floor of the Annex III area inside Station B during GEI’s 1998 Phase II/III of the Site (GEI, 1998b). Laboratory analysis of the concrete sample indicated PCBs were present at 15 mg/kg. GEI concluded that the PCB detection in concrete was indicative of a past release in the Station B building. The following documents are incorporated into this RAR by reference. Excerpts from three of the documents relevant to Station B and the removal of the remaining PCB contaminated concrete were included in the aforementioned March 2018 RAP as appendices, but are excluded from this RAR document.

#### 2002 Site-Wide PCB Characterization and Cleanup Plan (AEI, 2002)

On behalf of the building owner, the interior of the Station B building was further identified as “PCB Area 1” by AEI. As described in their plan, the entirety of the Annex III area inside Station B was sampled on a five-foot sample grid by AEI, resulting in the collection and analysis of 28 concrete samples. Of the 28 samples collected, 5 were found to have PCB concentrations greater than the remedial goal of 1.0 mg/kg (high occupancy standard in 40CFR Part 761). According to AEI, a 10-foot by 15-foot area of the concrete floor in the area where the exceedances were detected was scarified and verification samples were collected. Of the 12 verification samples collected, two exceeded the remedial goal. Additional scarification was completed in the vicinity of the two verification samples that failed to meet the remedial goal. When another set of verification samples failed after the second scarification, that area of the floor was cut out and disposed of (AEI, 2005). The remaining areas of the Annex III area (now identified as PCB Area 1.2) met the remedial goal and contain PCB concentrations <1 mg/kg.

Oil-containing equipment in Station B was limited to an overhead crane, which was found to contain low levels of PCBs in lubricating oil in a motor (AEI, 2002). Based on sampling completed by AEI, the PCB concentration in the oil was 6.6 mg/L. This oil was drained from the crane and properly disposed off-site. AEI subsequently collected 47 wipe samples (1 sample every 1 to 4 meters) to characterize the entire crane. Based on the wipe sample results, all but one sample met the remedial goal (high occupancy standard in 40CFR Part 761) of 10 µg/100 cm<sup>2</sup>. The area of the crane with the exceeding sample (25 µg/100 cm<sup>2</sup>) was decontaminated, re-sampled and the resulting concentrations were below the remedial goal.

2005 Interim PCB Report for Station B Parcel Sale (AEI, 2005)

The overhead crane is noted as being within “PCB Area 1.1,” along with the first floor and mezzanine. Samples of the paint on the overhead crane were collected by AEI in 2006. Of the 17 paint samples collected, all 17 exhibited PCB concentrations ranging from 4.5 to 22 mg/kg (AEI, 2007).

Concrete from the first floor (outside of the Annex III area) of the Station B building was sampled by AEI during their work on the Site. Reportedly, all concrete samples were collected in accordance with the EPA Region 1 *Draft Standard Operating Procedure for Sampling Concrete in the Field*. Samples were collected using a randomized grid, plus biased samples were collected under the crane and in other areas where stains were observed. The mezzanine floor that was used for storage reportedly had no indication of staining on its concrete surface and was not sampled. A wooden platform on the first floor and wooden shelves on the mezzanine also were also sampled and tested. None of the samples exhibited PCB concentrations above the remedial goal of <1 mg/kg (high occupancy standard in 40CFR Part 761). Despite the apparent absence of PCB impacts on the first floor of the building, the 2007 Parcel A Cleanup Plan (AEI, 2007) indicates an additional 96 samples were collected from the first floor (outside of Annex III) to further characterize PCB impacts. As the 2007 plan supersedes an older 2006 plan, it is likely that the EPA requested additional characterization. The results of the sampling indicated that 30 of the 96 samples exceeded the remedial goal of <1 mg/kg PCBs (high occupancy standard in 40CFR Part 761). The PCB concentrations in these samples ranged from 1 to 43 mg/kg.

AEI collected seven soil samples from the earthen floor of the basement of Station B (identified as PCB Area 1.3 in later reports). According to the 2005 Interim PCB Report for Station B (AEI, 2005), none of the soil samples collected exhibited PCB concentrations above the remedial goal of 1 mg/kg (high occupancy standard in 40CFR Part 761). After soil samples were collected from the earthen floor of the basement, a concrete cap was poured to cover the earthen portion of the basement and render those soils inaccessible. Installation of the cap reportedly had nothing to do with PCBs and was done solely to satisfy Direct Exposure Criteria under the RSRs.

Investigation activities completed by HRP in 2014 involved the collection of 10 additional soil samples from beneath the concrete cap in the basement of Station B (HRP, 2015). Of the 10 samples collected, PCBs were detected in only 3 soil samples at concentrations below 1 mg/kg.

2007 Parcel A PCB Cleanup Plan, AEI (AEI, 2007)

In April 2007, on behalf of Quinnipiac Energy, AEI again submitted a PCB Cleanup Plan to the EPA in order to satisfy the notification and certification requirements of 40 CFR 761.61 (a)(3) for cleanup of the Station B parcel. At the time this report was prepared, the northern portion of the Site was clearly identified as “Parcel A” and had been formally sub-divided from the rest of the Site. The AEI 2007 plan supersedes the previous 2006 PCB cleanup plan, as the parcel had been reconfigured and additional PCB characterization sampling had been completed.

Cleanup of the parcel was to be done under the self-implementing option at 40 CFR 761.61(a). The plan notes that extensive additional investigation work had been completed since July 2002 and had resulted in re-mapping of the boundaries of several of the PCB Areas initially identified on the property.

2007 US EPA Approval of *Parcel A PCB Cleanup Plan*, AEI (AEI, 2007)

On May 22, 2007, the US EPA issued approval the AEI 2007 Plan to Quinnipiac Energy. In December 2007, notice to proceed was issued to US EPA that the work under the AEI 2007 Plan would commence.

2008 *Interim Status Report / Quinnipiac Energy English Station Parcel A PCB Cleanup Plan*, AEI (AEI, 2008)

In May 2008, AEI submitted an Interim Status Report to Quinnipiac Energy regarding the status of the PCB cleanup of Parcel A. Apparently, funding for the cleanup established through the UI escrow had been depleted and AEI was unable to complete the PCB remediation activities specified in their 2007 Parcel A PCB Cleanup Plan. In order to document the status of the work completed and the condition of Parcel A to that point, AEI drafted the interim report.

According to the report, several floor areas of the first floor of Station B (PCB Area 1.1) were scarified, but verification concrete sample results indicated that the scarification did not meet the remedial goal of <1 mg/kg PCBs (high occupancy standard in 40CFR Part 761). Though PCB concentrations in the concrete were generally in the 1 to 2 mg/kg range, some were in the 2 to 6 mg/kg range, and one verification sample was found to contain 16,600 mg/kg PCBs. In addition, 43 wipe samples were collected from steel beams in the vicinity of the scarification. PCBs were detected in only 2 samples at concentrations below the remedial goal of 10 µg/100 cm<sup>2</sup> (high occupancy standard in 40CFR Part 761).

## 2.0 PROCEDURES

### 2.1 Safety and Monitoring Requirements

A site-specific Health and Safety Plan (HASP) for the concrete removal activities was provided by the contractor selected by UI, Clean Harbors, to perform the work. The requirements for the HASP are described in the technical specification Section 01 35 00 – Health, Safety and Emergency Response presented in Appendix A. The technical specifications in Appendix A were part of the March 2018 RAP. A copy of the Clean Harbors HASP document is included in Appendix E.

### 2.2 Concrete Removal Procedures

All of the work that is documented in this RAR was done in accordance with the AEI 2007 Plan approved US EPA on May 22, 2007 issued under 40CFR§761.61(a), and the March 2018 RAP. Prior to mobilization, TRC marked the limits of concrete removal areas on the surface of the slab. The concrete sampling drill holes left by AEI in 2008 to delineate the remaining PCB impacted concrete ( $\geq 1$ ppm) and the surrounding limits less than 1 mg/kg were clearly visible. The initial limits of concrete removal coincided with the March 2018 RAP. The concrete that was removed is shown on TRC Figure 1 in Appendix B. The final horizontal and vertical limits of removal were based on the concrete verification sampling performed by TRC following concrete removal activities and the prior verification concrete sampling results contained in the AEI 2008 Interim Status Report. Refer to project photographs in Appendix C for additional documentation on the limits of scabbling and verification sampling. Equipment decontamination and staging areas were reviewed with Clean Harbors before remediation work began. The interior loading dock area was used for storage of the removed concrete and other solids in a lined roll-off container. Liquid residuals from concrete surface washing, clean-up and equipment decontamination activities were stored in sealed 55-gallon drums on the first floor of Station B away from the remediation work area. Equipment decontamination was performed immediately adjacent to the loading dock on poly-sheeting.

Where PCBs in concrete were detected at concentrations of 1 mg/kg or greater, the concrete was removed using scabbling to the depths and extent show on TRC Figure 1 and in

accordance with technical specification Section 02 12 00 – Contaminated Concrete Removal and Disposal in Appendix A. The prior work performed under AEI’s supervision was scarification to a depth of 1/8 to ¼ inches. Scabbling had been selected for the remaining removal because prior work by TRC and others has shown that scarification can drive PCB contamination deeper into the underlying concrete layer. Scabbling is performed by pneumatically driven pistons with hardened steel chipping bits that reciprocate and remove the concrete in thin layers through chipping rather than grinding. A specially designed dust shroud fit around the scabbling pistons to allow dust to be collected via a HEPA vacuum. Wetting and misting of the concrete was also used to minimize dust generation.

Before scabbling work could be performed Clean Harbors had to erect scaffolding with heavy wood planks on top spanning over the areas to be scabbled to protect workers from falling debris from the deteriorated roof. The contractor first placed polyethylene sheeting over the entire work area to prevent contact of the scaffolding components and scaffolding workers with the PCB impacted concrete surface. After the scaffolding was erected Clean Harbors installed a layer of sealed polyethylene sheeting inside the scaffolding to create an enclosed containment tent that would prevent any dust or water splash from the PCB concrete area escaping the containment and impacting the scaffolding components. After the poly-lined containment was erected then the floor poly was removed to commence with the scabbling activities. The bottom of the containment poly-sheeting was anchored to the floor. A HEPA exhaust fan was used during scabbling activities to maintain negative air pressure inside the poly-lined containment and filter dust from the exhausted air.

The March 2018 RAP delineated the anticipated horizontal limits and depth of concrete removal based upon the 2008 AEI Interim Report. TRC conducted verification sampling and testing of the concrete (including the 4 additional samples requested by US EPA) after removal within each area was completed in accordance with the March 2018 RAP. The depth of the concrete removal was controlled and checked using a laser level to ensure the full depth of required concrete removal was achieved over each area. Based on these results, the initial scabbling and concrete filled steel grate removal achieved the PCB clean-up goal of  $\leq 1\text{mg/Kg}$  required by the March 2018 RAP, with the exception of two areas within the West Area.

Concrete removal was performed to depths indicated on TRC Figure 1 and then concrete sampling was performed in accordance with the sampling layout shown on TRC Figure 1. Verification sample locations were marked in the field prior to collection.

Following removal of ½ inch of concrete in the West Area the verification sampling collected from a depth of ½ inch to 1 inch showed several locations slightly greater than 1 mg/kg. Seven (7) concrete samples were reported to have PCBs at concentrations > 1 mg/Kg as follows: TRC-C004(0.5”) – 1.71 mg/Kg, TRC-C005(0.5”) – 2.03 mg/Kg, TRC-C006(0.5”) – 1.47 mg/Kg, TRC-C008(0.5”) – 1.1 mg/Kg, TRC-C009(0.5”) – 1.1 mg/Kg, TRC-C0010(0.5”) – 1.2 mg/Kg, and TRC-C015 (0.5”) – 2.35 mg/Kg. In addition, the verification sampling showed that the horizontal limit of the scabbling needed to be expanded to the south by 10 feet due to an exceedance of 1 mg/Kg in one of the edge samples (TRC-CO15). TRC instructed Clean Harbors to remove an additional ½ inch of concrete over two portions of the West Area to achieve an overall removal to a depth of 1 inch. The scaffolding protection had to be expanded to encompass the small area to the south. The same procedures previously described were used by the contractor to erect the additional scaffolding and poly-lined containment. The expanded area to the south was removed to the horizontal limit of the nearest previous 2008 AEI samples that were < 1mg/kg. Resampling at these seven locations at a depth of 1 inch to 1-½ inch below the original floor surface following rescabbling was performed and all results for PCBs were at concentrations ≤ 1mg/Kg. All three wood flooring samples in the west end of the West Area were < 0.1 mg/Kg.

The Middle Area along the ramp into the curbed storage area was be removed to a depth of 1 inch. A portion of this area had concrete filled steel grating that was completely removed to the depth of the grate which was 2 inches. The East Area was removed to a minimum depth of 1 inch and there was a small area that required removal of concrete to a depth of 1-1/2 inches. Concrete was removed up to the metal edging surrounding the loading dock.

### 2.3 Waste Characterization, Transport, and Disposal

PCB Remediation Wastes > 50 PPM, consisting of concrete solids, metal and debris,

from scabbling and grate removal was loaded into a lined roll-off container. In addition, all decontamination wipes, brooms, HEPA exhaust filter, HEPA vacuum filter, flex hoses, flex spiral air duct, demolition circular saw blades, wood blocks under scaffolding supports, personal protective equipment (PPE) and other incidental items that may have been potentially impacted by PCBs were placed into the same roll-off as PCB Remediation Waste. All of the waste characterization, transportation and disposal was handled in accordance with technical specification Section 02 12 00 – Contaminated Concrete Removal and Disposal and Section 02 12 50 – Transportation Disposal of Materials contained in Appendix A. All of the solid waste was handled as containing 50 mg/kg or greater PCBs. The liquid residuals that are drummed were sampled and tested. (Refer to discussion in Section 2.6 below).

Only permitted TSCA waste haulers and treatment/disposal facilities permitted to accept solids with PCB concentrations of 50 mg/kg or greater were used. Prior to shipping the wastes all containers and hauling vehicles were inspected by an onsite TRC representative and certified for Hazardous Materials Handling under DOT 49 CFR Transportation Regulations (49 CFR 172.704). Proper marking and placards was verified by TRC. All of the concrete and debris loaded into the roll-off was shipped to the EQ – Wayne Disposal, Inc. in Bellville, Michigan. All wastes were shipped with proper manifests. Copies of waste shipping and disposal documents are contained in Appendix G.

#### 2.4 Restoration

Concrete floor restoration activities were not performed due to the now planned demolition of the Station B building.

#### 2.5 Equipment Decontamination

All equipment which contacted the PCB Remediation Wastes was decontaminated and wipe sampled prior to leaving the site. Equipment used in the excavation was triple-rinsed with a solvent that met the requirements of 40 CFR 761 Subpart S. Capsur and Kleen Greene were used as the solvents for decontamination. Copies of SDS profiles are contained in Appendix E.

Following decontamination procedures at least 3 wipe samples were collected from each item of equipment that came in contact with PCBs in accordance with the project specifications contained in the RAP and Appendix A. There were a total of four (4) scabblers, one circular demolition saw and one vacuum used on the project which required decontamination and wipe sampling prior releasing for reuse. All of the results are shown on Table 2-2. With the exception of one sample all of the results were non-detect ( $<0.20 \mu\text{g}/100\text{cm}^2$  wipe). The sole PCB detection was sample designated “TRC-Scabblor Bottom (3)” at  $0.88 \mu\text{g}/100\text{cm}^2$  wipe, which is well below the  $10 \mu\text{g}/100\text{cm}^2$  wipe requirement to release the equipment.

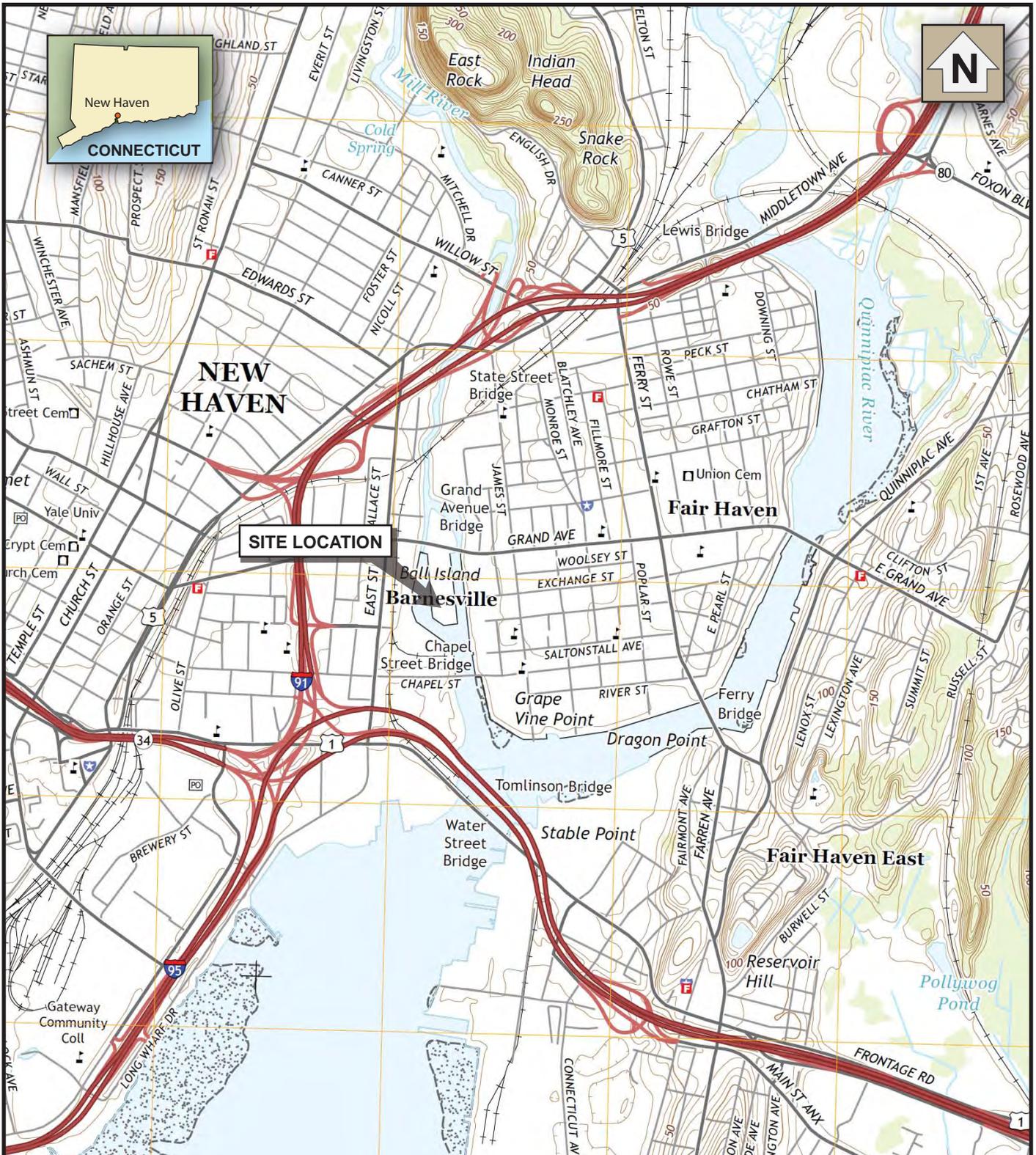
## 2.6 Decontamination Waste Storage and Disposal

Decontamination wastes were segregated as to matrix, aqueous, non-aqueous, solid material (e.g., PPE), containerized and stored in the decontamination area. All personal protective equipment (PPE) and polyethylene that came in contact with PCB Remediation Wastes was placed into the lined waste shipping container and disposed of as PCB Remediation Wastes.

For water, the decontamination standard for discharge to a treatment works is  $3 \mu\text{g}/\text{L}$  or less than or equal to  $0.5 \mu\text{g}/\text{L}$  for unrestricted use. The decontamination standard for organic liquids and non-aqueous inorganic liquids containing PCBs is 2 milligrams per kilogram. Decontamination water and solvents not meeting these standards were disposed of as PCB remediation wastes. Liquid waste were generated during the washing of the concrete surface following scabbling and from rainwater intrusion onto the scabbling area from the leaking roof. A total of seven drums of liquid were generated during the project. The majority of the drummed liquid was rainwater removed from the slab during scabbling. There was one drum that had water and a thin oil/solvent layer from equipment and concrete decontamination. The water and oil/solvent layer in that drum was sampled separately. The remaining six drums containing water only were sampled and combined into one composite sample representing those six drums. Total PCBs in the six drum composite was  $2.84 \mu\text{g}/\text{L}$ . The water portion of the 7<sup>th</sup> drum had a PCB concentration of  $16.5 \mu\text{g}/\text{L}$  and the oil/solvent layer was  $6 \text{ mg}/\text{Kg}$ . Samples were also analyzed for volatile organic compounds (VOCs) in accordance with EPA Method 8260C. All VOCs were less than the laboratory detection limits. All of the drummed liquid waste was sent to Clean Harbors

wastewater facility in Bristol, CT. Sample results are summarized in Table 2-3.

# FIGURES



**SITE LOCATION**



21 Griffin Road North  
Windsor, CT 06095  
Phone: 860.298.9692

**ENGLISH STATION**  
510 GRAND AVENUE, NEW HAVEN, CT

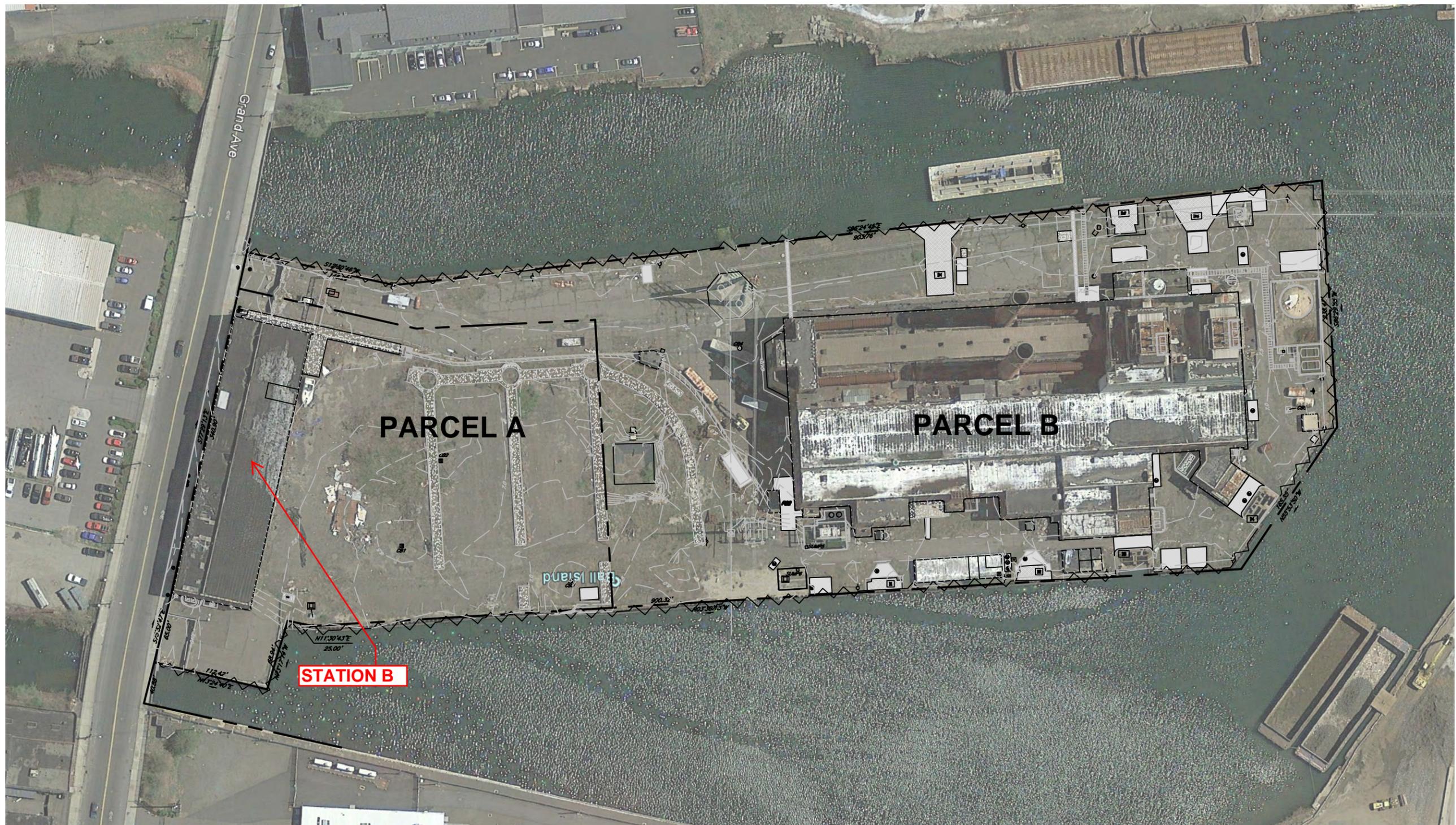
**FIGURE 1-1**  
**SITE LOCATION MAP**

DATE: 10/2016 | PROJECT NO. 263951.0000.000000



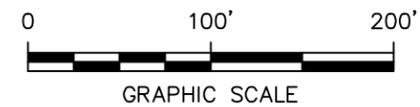
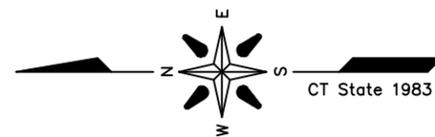
1:24000

BASE CREATED WITH 7.5' USGS TOPOGRAPHIC MAP  
NEW HAVEN, CT 2015



**SOURCE:**

- MAP TITLED "FIGURE 3N, MASS ANALYSIS PCB SAMPLE POINT LOCATIONS-NORTH, PREPARED FOR QUINNIAC ENERGY, LLC., ENGLISH STATION, 510 GRAND AVENUE, NEW HAVEN, CT." DATED: 3/1/10, SCALE: 1"=20', BY ADVANCED ENVIRONMENTAL INTERFACE, INC.
- AERIAL IMAGE FROM GOOGLE EARTH PRO, DATE OF IMAGE: 04/20/2016



PROJECT:		UNITED ILLUMINATING ENGLISH STATION POWER PLANT 510 Grand Avenue New Haven, Connecticut	
TITLE:		SITE PLAN AND APPROXIMATE PARCEL BOUNDARIES	
DRAWN BY:	KDH	PROJ NO.:	263951-000001-000000
CHECKED BY:	RG	<b>Figure 1-2</b>	
APPROVED BY:	MM		
DATE:	10/07/2016		
		21 Griffin Road North Windsor, CT 06095 Phone: 860.298.9692 www.trcsolutions.com	
		FILE NO.: Plate-1.dwg	

# **TABLES**

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	01	02	03	04	04
Sample ID	TRC-W001 (0.5)	TRC-W002 (0.5)	TRC-W003 (0.5)	TRC-C004 (0.5)	TRC-C004 (1)
Sampling Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018	8/2/2018
Sample Depth (Inches)	0.0 to 0.5	0.0 to 0.5	0.0 to 0.5	0.5 to 1.0	1.0 to 1.5
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.10	ND <0.10	ND <0.10	ND <0.10	ND <0.083
PCB 1221	ND <0.10	ND <0.10	ND <0.10	ND <0.10	ND <0.083
PCB 1232	ND <0.10	ND <0.10	ND <0.10	ND <0.10	ND <0.083
PCB 1242	ND <0.10	ND <0.10	ND <0.10	ND <0.10	ND <0.083
PCB 1248	ND <0.10	ND <0.10	ND <0.10	ND <0.10	0.17
PCB 1254	ND <0.10	ND <0.10	ND <0.10	<b>0.71</b>	0.18
PCB 1260	ND <0.10	ND <0.10	ND <0.10	<b>1</b>	0.11
PCB 1262	ND <0.10	ND <0.10	ND <0.10	ND <0.10	ND <0.083
PCB 1268	ND <0.10	ND <0.10	ND <0.10	ND <0.10	ND <0.083
<b>Total PCBs</b>	ND <0.10	ND <0.10	ND <0.10	<b>1.71</b>	<b>0.46</b>

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	05	05	06	06	07
Sample ID	TRC-C005 (0.5)	TRC-C005 (1)	TRC-C006 (0.5)	TRC-C006 (1)	TRC-C007 (0.5)
Sampling Date	6/21/2018	8/2/2018	6/21/2018	8/2/2018	6/21/2018
Sample Depth (Inches)	0.5 to 1.0	1.0 to 1.5	0.5 to 1.0	1.0 to 1.5	0.5 to 1.0
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.10	ND <0.070	ND <0.10	ND <0.071	ND <0.10
PCB 1221	ND <0.10	ND <0.070	ND <0.10	ND <0.071	ND <0.10
PCB 1232	ND <0.10	ND <0.070	ND <0.10	ND <0.071	ND <0.10
PCB 1242	ND <0.10	ND <0.070	ND <0.10	ND <0.071	ND <0.10
PCB 1248	ND <0.10	0.098	ND <0.10	0.12	ND <0.10
PCB 1254	<b>0.93</b>	0.085	<b>0.75</b>	0.095	ND <0.10
PCB 1260	<b>1.1</b>	ND <0.070	<b>0.72</b>	ND <0.071	<b>0.48</b>
PCB 1262	ND <0.10	ND <0.070	ND <0.10	ND <0.071	ND <0.10
PCB 1268	ND <0.10	ND <0.070	ND <0.10	ND <0.071	ND <0.10
<b>Total PCBs</b>	<b>2.03</b>	<b>0.183</b>	<b>1.47</b>	<b>0.215</b>	<b>0.48</b>

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	08	08	09	09	10
Sample ID	TRC-C008 (0.5)	TRC-C008 (1)	TRC-C009 (0.5)	TRC-C009 (1)	TRC-C010 (0.5)
Sampling Date	6/21/2018	8/3/2018	6/21/2018	8/3/2018	6/21/2018
Sample Depth (Inches)	0.5 to 1.0	1.0 to 1.5	0.5 to 1.0	1.0 to 1.5	0.5 to 1.0
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
PCB 1221	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
PCB 1232	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
PCB 1242	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
PCB 1248	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
PCB 1254	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
PCB 1260	<b>1.1</b>	ND <0.090	<b>1.1</b>	ND <0.085	<b>1.2</b>
PCB 1262	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
PCB 1268	ND <0.10	ND <0.090	ND <0.10	ND <0.085	ND <0.10
<b>Total PCBs</b>	<b>1.1</b>	ND <0.090	<b>1.1</b>	ND <0.085	<b>1.2</b>

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.

mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2**  
**POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	10	11	12	13	14
Sample ID	TRC-C010 (1)	TRC-C011 (0.5)	TRC-C012 (0.5)	TRC-C013 (0.5)	TRC-C014 (0.5)
Sampling Date	8/3/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018
Sample Depth (Inches)	1.0 to 1.5	0.5 to 1.0	0.5 to 1.0	0.5 to 1.0	0.5 to 1.0
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
PCB 1221	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
PCB 1232	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
PCB 1242	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
PCB 1248	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
PCB 1254	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
PCB 1260	ND <0.093	<b>0.38</b>	<b>0.77</b>	ND <0.10	<b>1</b>
PCB 1262	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
PCB 1268	ND <0.093	ND <0.10	ND <0.10	ND <0.10	ND <0.10
Total PCBs	ND <0.093	<b>0.38</b>	<b>0.77</b>	ND <0.10	<b>1</b>

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	15	15	16	17	18
Sample ID	TRC-C015 (0.5)	TRC-C015 (1)	TRC-C016 (0.5)	TRC-C017 (0.5)	TRC-C018 (0.5)
Sampling Date	6/21/2018	8/2/2018	6/21/2018	6/21/2018	6/21/2018
Sample Depth (Inches)	0.5 to 1.0	1.0 to 1.5	0.5 to 1.0	0.5 to 1.0	0.5 to 1.0
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.10	ND <0.078	ND <0.10	ND <0.10	ND <0.10
PCB 1221	ND <0.10	ND <0.078	ND <0.10	ND <0.10	ND <0.10
PCB 1232	ND <0.10	ND <0.078	ND <0.10	ND <0.10	ND <0.10
PCB 1242	ND <0.10	ND <0.078	ND <0.10	ND <0.10	ND <0.10
PCB 1248	ND <0.10	0.19	ND <0.10	ND <0.10	ND <0.10
PCB 1254	<b>0.95</b>	0.14	ND <0.10	ND <0.10	ND <0.10
PCB 1260	<b>1.4</b>	0.082	ND <0.10	ND <0.10	ND <0.10
PCB 1262	ND <0.10	ND <0.078	ND <0.10	ND <0.10	ND <0.10
PCB 1268	ND <0.10	ND <0.078	ND <0.10	ND <0.10	ND <0.10
<b>Total PCBs</b>	<b>2.35</b>	<b>0.412</b>	ND <0.10	ND <0.10	ND <0.10

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	19	20	21	22	23
Sample ID	TRC-C019 (1)	TRC-C020 (1)	TRC-C021 (1)	TRC-C022 (1)	TRC-C023 (1)
Sampling Date	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018
Sample Depth (Inches)	1.0 to 1.5				
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1221	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1232	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1242	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1248	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1254	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1260	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1262	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
PCB 1268	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073
Total PCBs	ND <0.089	ND <0.074	ND <0.097	ND <0.095	ND <0.073

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	24	25	26	27	28
Sample ID	TRC-C024 (1)	TRC-C025 (2)	TRC-C026 (2)	TRC-C027 (1)	TRC-C028 (1)
Sampling Date	7/26/2018	7/26/2018	7/26/2018	7/25/2018	7/25/2018
Sample Depth (Inches)	1.0 to 1.5	2.0 to 2.5	2.0 to 2.5	1.0 to 1.5	1.0 to 1.5
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1221	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1232	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1242	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1248	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1254	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1260	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1262	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
PCB 1268	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088
Total PCBs	ND <0.071	ND <0.083	ND <0.088	ND <0.091	ND <0.088

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	29	30	31	32	33
Sample ID	TRC-C029 (1)	TRC-C030 (1)	TRC-C031 (1.25)	TRC-C032 (1.25)	TRC-C033 (0.5)
Sampling Date	7/23/2018	7/23/2018	7/5/2018	7/5/2018	7/5/2018
Sample Depth (Inches)	1.0 to 1.5	1.0 to 1.5	1.25 to 1.75	1.25 to 1.75	0.5 to 1.0
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.081	ND <0.084	ND <0.094	ND <0.079	ND <0.084
PCB 1221	ND <0.081	ND <0.084	ND <0.094	ND <0.079	ND <0.084
PCB 1232	ND <0.081	ND <0.084	ND <0.094	ND <0.079	ND <0.084
PCB 1242	ND <0.081	ND <0.084	ND <0.094	ND <0.079	ND <0.084
PCB 1248	ND <0.081	0.097	ND <0.094	ND <0.079	0.15
PCB 1254	ND <0.081	0.11	ND <0.094	ND <0.079	0.14
PCB 1260	ND <0.081	ND <0.084	ND <0.094	ND <0.079	ND <0.084
PCB 1262	ND <0.081	ND <0.084	ND <0.094	ND <0.079	ND <0.084
PCB 1268	ND <0.081	ND <0.084	ND <0.094	ND <0.079	ND <0.084
<b>Total PCBs</b>	ND <0.081	<b>0.207</b>	ND <0.094	ND <0.079	<b>0.29</b>

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	34	35	36	37	38
Sample ID	TRC-C034 (1.25)	TRC-C035 (1.5)	TRC-C036 (1.25)	TRC-C037 (0.5)	TRC-C038 (1)
Sampling Date	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/23/2018
Sample Depth (Inches)	1.25 to 1.75	1.5 to 2.0	1.25 to 1.75	0.5 to 1.0	1.0 to 1.5
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.081	ND <0.081	ND <0.073	ND <0.076	ND <0.088
PCB 1221	ND <0.081	ND <0.081	ND <0.073	ND <0.076	ND <0.088
PCB 1232	ND <0.081	ND <0.081	ND <0.073	ND <0.076	ND <0.088
PCB 1242	ND <0.081	ND <0.081	ND <0.073	ND <0.076	ND <0.088
PCB 1248	ND <0.081	ND <0.081	ND <0.073	ND <0.076	ND <0.088
PCB 1254	ND <0.081	ND <0.081	ND <0.073	0.15	ND <0.088
PCB 1260	ND <0.081	ND <0.081	ND <0.073	0.16	ND <0.088
PCB 1262	ND <0.081	ND <0.081	ND <0.073	ND <0.076	ND <0.088
PCB 1268	ND <0.081	ND <0.081	ND <0.073	ND <0.076	ND <0.088
<b>Total PCBs</b>	ND <0.081	ND <0.081	ND <0.073	<b>0.31</b>	ND <0.088

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	39	39	40	40	41
Sample ID	TRC-C039 (1.5)	TRC-C039 BWALL	TRC-C040 (1.25)	TRC-040 BWALL	TRC-C041 (1)
Sampling Date	7/5/2018	7/5/2018	7/23/2018	7/5/2018	7/23/2018
Sample Depth (Inches)	1.5 to 2.0	0.0 to 0.5	1.25 to 1.75	0.0 to 0.5	1.0 to 1.5
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.083	ND <0.091	ND <0.086	ND <0.096	ND <0.082
PCB 1221	ND <0.083	ND <0.091	ND <0.086	ND <0.096	ND <0.082
PCB 1232	ND <0.083	ND <0.091	ND <0.086	ND <0.096	ND <0.082
PCB 1242	ND <0.083	ND <0.091	ND <0.086	ND <0.096	ND <0.082
PCB 1248	ND <0.083	0.12	ND <0.086	ND <0.096	ND <0.082
PCB 1254	ND <0.083	0.18	ND <0.086	0.17	ND <0.082
PCB 1260	ND <0.083	0.097	ND <0.086	ND <0.096	ND <0.082
PCB 1262	ND <0.083	ND <0.091	ND <0.086	ND <0.096	ND <0.082
PCB 1268	ND <0.083	ND <0.091	ND <0.086	ND <0.096	ND <0.082
<b>Total PCBs</b>	ND <0.083	<b>0.397</b>	ND <0.086	<b>0.17</b>	ND <0.082

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	41	42	42	666	676
Sample ID	TRC-041 BWALL	TRC-C042 (1)	TRC-042 BWALL	TRC-C666 (0.5)	TRC-C676 (1)
Sampling Date	7/5/2018	7/23/2018	7/6/2018	6/21/2018	7/25/2018
Sample Depth (Inches)	0.0 to 0.5	1.0 to 1.5	0.0 to 0.5	0.5 to 1.0	1.0 to 1.5
<b>PCBs (mg/Kg)</b> <b>EPA Method SW-846 8082A</b>					
PCB 1016	ND <0.093	ND <0.082	ND <0.098	ND <0.10	ND <0.093
PCB 1221	ND <0.093	ND <0.082	ND <0.098	ND <0.10	ND <0.093
PCB 1232	ND <0.093	ND <0.082	ND <0.098	ND <0.10	ND <0.093
PCB 1242	ND <0.093	ND <0.082	ND <0.098	ND <0.10	ND <0.093
PCB 1248	0.15	0.1	0.17	ND <0.10	0.19
PCB 1254	0.25	0.092	0.26	ND <0.10	0.26
PCB 1260	0.21	ND <0.082	0.13	0.37	0.19
PCB 1262	ND <0.093	ND <0.082	ND <0.098	ND <0.10	ND <0.093
PCB 1268	ND <0.093	ND <0.082	ND <0.098	ND <0.10	ND <0.093
<b>Total PCBs</b>	<b>0.61</b>	<b>0.192</b>	<b>0.56</b>	<b>0.37</b>	<b>0.64</b>

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.  
mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2  
POROUS MEDIA ANALYTICAL VERIFICATION RESULTS**

Station B - AOC-1  
510 Grand Ave, New Haven, CT

Sample Location	682	692
Sample ID	TRC-C682 (1)	TRC-C692 (1)
Sampling Date	7/23/2018	7/23/2018
Sample Depth (Inches)	1.0 to 1.5	1.0 to 1.5
<b>PCBs (mg/Kg)</b>		
<b>EPA Method SW-846 8082A</b>		
PCB 1016	ND <0.085	ND <0.084
PCB 1221	ND <0.085	ND <0.084
PCB 1232	ND <0.085	ND <0.084
PCB 1242	ND <0.085	ND <0.084
PCB 1248	ND <0.085	ND <0.084
PCB 1254	ND <0.085	ND <0.084
PCB 1260	ND <0.085	ND <0.084
PCB 1262	ND <0.085	ND <0.084
PCB 1268	ND <0.085	ND <0.084
<b>Total PCBs</b>	ND <0.085	ND <0.084

NOTES:

Total PCB's ≤ 1 PPM

Total PCB's > 1 PPM

ND = Not detected above the laboratory reporting limit.

mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2**  
**WIPE SAMPLE ANALYTICAL RESULTS**  
**Station B -AOC-1**  
**510 Grand Avenue, New Haven, CT**

Sample ID	TRC-Scabbler (1) Left	TRC-Scabbler (1) Right	TRC-Scabbler (1) Bottom	TRC-Scabbler (1) Control	TRC-Scabbler (2) Left	TRC-Scabbler (2) Right	TRC-Scabbler (2) Bottom	TRC-Scabbler (3) Left
Sampling Date	6/27/2018	6/27/2018	6/27/2018	6/27/2018	6/27/2018	6/27/2018	6/27/2018	8/8/2018
<b>PCBs (µg/ 100 cm<sup>2</sup> Wipe)</b> <b>EPA Method SW-846 8082A</b>								
PCB 1016	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1221	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1232	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1242	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1248	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1254	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1260	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1262	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
PCB 1268	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND <0.20
Total PCBs	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20

NOTES:

Total PCB's ≤ 10 µg/ 100 cm<sup>2</sup>

Total PCB's > 10 µg/ 100 cm<sup>2</sup>

ND = Not detected above the laboratory reporting limit.  
µg/ 100 cm<sup>2</sup> = micrograms per 100 square centimeters  
Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2**  
**WIPE SAMPLE ANALYTICAL RESULTS**  
**Station B -AOC-1**  
**510 Grand Avenue, New Haven, CT**

Sample ID	TRC-Scabbler (3) Right	TRC-Scabbler (3) Bottom	TRC-Scabbler (3) Control	TRC-Scabbler (4) Left	TRC-Scabbler (4) Right	TRC-Scabbler (4) Bottom	TRC-Saw-Shield- Inside-Left	TRC-Saw-Shield- Inside-Right
Sampling Date	8/8/2018	8/8/2018	8/8/2018	8/8/2018	8/8/2018	8/8/2018	8/3/2018	8/3/2018
<b>PCBs (<math>\mu\text{g}/100\text{ cm}^2</math> Wipe)</b> <b>EPA Method SW-846 8082A</b>								
PCB 1016	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1221	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1232	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1242	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1248	ND <0.20	<b>0.58</b>	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1254	ND <0.20	<b>0.3</b>	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1260	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1262	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
PCB 1268	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND < 0.20	ND < 0.20
Total PCBs	ND < 0.20	<b>0.88</b>	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20

NOTES:

Total PCB's  $\leq 10\ \mu\text{g}/100\text{ cm}^2$

Total PCB's  $> 10\ \mu\text{g}/100\text{ cm}^2$

ND = Not detected above the laboratory reporting limit.

$\mu\text{g}/100\text{ cm}^2$  = micrograms per 100 square centimeters

Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-2**  
**WIPE SAMPLE ANALYTICAL RESULTS**  
**Station B -AOC-1**  
**510 Grand Avenue, New Haven, CT**

Sample ID	TRC-Saw-Shield- Body-Outside- Right	TRC-Saw-Control	TRC-Neg-Air-Left	TRC-Neg-Air- Right	TRC-Neg-Air- Bottom	TRC-Vac-Left	TRC-Vac-Right	TRC-Vac-Bottom
Sampling Date	8/3/2018	8/3/2018	8/8/2018	8/8/2018	8/8/2018	8/8/2018	8/8/2018	8/8/2018
<b>PCBs (µg/ 100 cm<sup>2</sup> Wipe)</b> <b>EPA Method SW-846 8082A</b>								
PCB 1016	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1221	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1232	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1242	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1248	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1254	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1260	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1262	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
PCB 1268	ND < 0.20	ND < 0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20	ND <0.20
Total PCBs	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20	ND < 0.20

NOTES:

Total PCB's < 10 µg/ 100 cm<sup>2</sup>

Total PCB's > 10 µg/ 100 cm<sup>2</sup>

ND = Not detected above the laboratory reporting limit.  
µg/ 100 cm<sup>2</sup> = micrograms per 100 square centimeters  
Numbers in bold denote a detection above the laboratory reporting limit.

**TABLE 2-3**  
**LIQUID SAMPLE ANALYTICAL FROM DRUMS**

Station B - AOC-1  
510 Grand Avenue, New Haven, CT

Sample ID	TRC-DRUM-COMPOSITE (2-7)	TRC-DRUM-GRAB (1)	TRC-DRUM-GRAB (1)
Sampling Date	8/7/2018	8/7/2018	8/7/2018
Notes	Composite 6 water drums	Matrix: Water (µg/L)	Matrix: Oil (mg/Kg)
<b>SW-846 8082A (µg/L)</b>			
PCB 1016	ND < 0.20	ND < 2.0	ND <0.97
PCB 1221	ND < 0.20	ND < 4.0	ND <0.97
PCB 1232	ND < 0.20	ND < 4.0	ND <0.97
PCB 1242	ND < 0.20	ND < 4.0	ND <0.97
PCB 1248	<b>0.9</b>	<b>5.3</b>	<b>1.6</b>
PCB 1254	<b>1</b>	<b>5.9</b>	<b>2.8</b>
PCB 1260	<b>0.94</b>	<b>5.3</b>	<b>1.6</b>
PCB 1262	ND < 0.20	ND < 2.0	ND <0.97
PCB 1268	ND < 0.20	ND < 2.0	ND <0.97
Total PCBs	<b>2.84</b>	<b>16.5</b>	<b>6</b>
<b>SW-846 8260C (µg/L)</b>			
BROMOBENZENE	ND < 2.5	ND < 500	ND <270
BROMOCHLOROMETHANE	NA	NA	ND <270
BROMODICHLOROMETHANE	ND < 2.5	ND < 500	ND <270
BROMOFORM	ND < 10	ND < 2000	ND <270
BROMOMETHANE	ND < 5.0	ND < 1000	ND <1400
CARBON TETRACHLORIDE	ND < 2.5	ND < 500	ND <270
CHLOROBENZENE	ND < 2.5	ND < 500	ND <270
CHLORODIBROMOMETHANE	ND < 2.5	ND < 500	ND <140
CHLOROETHANE	ND < 5.0	ND < 1000	ND <2700
CHLOROFORM	ND < 2.5	ND < 500	ND <550
CHLOROMETHANE	ND < 10	ND < 2000	ND <1400
2-CHLOROTOLUENE	ND < 2.5	ND < 500	ND <270
4-CHLOROTOLUENE	ND < 2.5	ND < 500	ND <270
1,2-DIBROMO-3-CHLOROPROPANE	ND < 5.0	ND < 1000	ND <270
1,2-DIBROMOETHANE (EDB)	ND < 2.5	ND < 500	ND <140
DIBROMOMETHANE	ND < 2.5	ND < 500	ND <270
1,2-DICHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,3-DICHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,4-DICHLOROETHANE	ND < 2.5	ND < 500	ND <270
TRANS-1,4-DICHLORO-2-BUTENE	ND < 10	ND < 2000	ND <550
DICHLORODIFLUOROMETHANE	ND < 2.5	ND < 500	ND <2700
1,1-DICHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,2-DICHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,1-DICHLOROETHYLENE	ND < 2.5	ND < 500	ND <550
CIS-1,2-DICHLOROETHYLENE	ND < 2.5	ND < 500	ND <270
TRANS-1,2-DICHLOROETHYLENE	ND < 5.0	ND < 1000	ND <270
1,2-DICHLOROPROPANE	ND < 2.5	ND < 500	ND <270
1,3-DICHLOROPROPANE	ND < 2.5	ND < 500	ND <140
2,2-DICHLOROPROPANE	ND < 2.5	ND < 500	ND <270
1,1-DICHLOROPROPENE	ND < 2.5	ND < 500	ND <270
CIS-1,3-DICHLOROPROPENE	ND < 2.5	ND < 500	ND <140
TRANS-1,3-DICHLOROPROPENE	ND < 2.5	ND < 500	ND <140
HEXACHLOROBUTADIENE	ND < 3.0	ND < 600	ND <270
METHYLENE CHLORIDE	ND < 25	ND < 5000	ND <2700
1,1,1,2-TETRACHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,1,2,2-TETRACHLOROETHANE	ND < 2.5	ND < 500	ND <140
TETRACHLOROETHYLENE	ND < 5.0	ND < 1000	ND <270
1,2,3-TRICHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,2,4-TRICHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,3,5-TRICHLOROETHANE	NA	NA	ND <270
1,1,1-TRICHLOROETHANE	ND < 2.5	ND < 500	ND <270
1,1,2-TRICHLOROETHANE	ND < 2.5	ND < 500	ND <270
TRICHLOROETHYLENE	ND < 5.0	ND < 1000	ND <270
TRICHLOROFLUOROMETHANE	ND < 10	ND < 2000	ND <1400
1,2,3-TRICHLOROPROPANE	ND < 2.5	ND < 500	ND <270
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND < 2.5	ND < 500	ND <1400
VINYL CHLORIDE	ND < 5.0	ND < 1000	ND <1400

NOTES:

ND = Not detected above the laboratory reporting limit.

µg/L = microgram per liter or part per billion (ppb)

mg/kg = milligram per kilogram or part per million (ppm)

Numbers in bold denote a detection above the laboratory reporting limit.

NA = Not Analyzed

# **APPENDIX A**

## **TRC Technical Specifications**

**SECTION 01 35 00**  
**HEALTH, SAFETY, AND EMERGENCY RESPONSE**

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**PART I - GENERAL**

1.1 SUMMARY

- A. This specification describes certain minimum health, safety, and emergency response requirements to be used during the project. The specification describes the required development, implementation, and enforcement of the Site Safety and Health Plan (SSHP) by the CONTRACTOR. The Health, Safety, and Emergency Response Specification also details key health and safety personnel and their responsibilities, hazard assessment, employee training requirements, personal protective equipment (PPE), on-site personnel medical surveillance programs, and specific site health and safety operating procedures.
- B. The submission of a Bid shall constitute that the CONTRACTOR certifies that he is experienced and qualified to anticipate and meet the safety and health requirements of this project.
- C. CONTRACTOR shall furnish all labor, equipment and materials and perform all operations in connection with monitoring air quality, decontaminating equipment and providing worker health and safety protection for all CONTRACTOR personnel.
- D. CONTRACTOR shall review the requirements and data presented and supplement the program with any additional measures deemed necessary to fully comply with regulatory requirements and adequately protect personnel on the site.

1.2 REFERENCES

- A. The site specific SSHP (described in Paragraph 1.4) must include, but is not limited to, information on how the CONTRACTOR will remain in compliance with the following regulatory standards at a minimum:
- B. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basis designation only.
  - 1. Code of Federal Regulations (CFR)
    - a. 29 CFR 1000 Air Contaminants (PELs)
    - b. 29 CFR 172 Hazardous Materials, Tables, and Hazardous Materials Communications Regulations
    - c. 29 CFR 1910 Occupational Safety and Health Standards
    - d. 29 CFR 1910.1000 Air Contaminants
    - e. 29 CFR 1910.1025 General Industry, Lead
    - f. 29 CFR 1910.1200 Hazard Communication

- g. 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response
  - h. 29 CFR 1910.132 Subpart I, Personal Protective Equipment
  - i. 29 CFR 1910.134 Respiratory Protection
  - j. 29 CFR 1910.146 Permit-Required Confined Spaces
  - k. 29 CFR 1910.147 Control of Hazardous Energy
  - l. 29 CFR 1926 Safety and Health Regulations for Construction
  - m. 29 CFR 1926 Subpart P Excavations
  - n. 29 CFR 1926 Subpart T Demolition
  - o. 29 CFR 1926 Subpart V Tagout and Lockout Procedures
  - p. 29 CFR 1926.52, 55, and 59 Occupational Health and Environmental Controls
  - q. 29 CFR 1926.62 Construction Standard, Lead
  - r. 29 CFR 1926.65 Hazardous Waste Operations and Emergency Response
  - s. 29 CFR 1926.65 Hazardous Waste Operations and Emergency Response
  - t. 29 CFR 1926.95 – 104 Personal Protective and Life Saving Equipment
  - u. 29 CFR 1926.250, 251, 252 Materials Handling, Storage, Use, and Disposal
  - v. 29 CFR 1926 350 – 354 Welding and Cutting
  - w. 29 CFR 1926.450 – 454 Scaffolds
  - x. 29 CFR 1926.500 – 503 Fall Protection
  - y. 29 CFR 1926.550, 552, 554 Cranes, Derricks, Hoists, Elevators, and Conveyers
  - z. 29 CFR 1926.1050 – 1060 Stairways and Ladders
  - aa. 29 CFR 1926.1101 Asbestos
  - bb. 40 CFR 171-179 General Information, Regulations, and Definitions
  - cc. 40 CFR 178 Shipping Container Specification
  - dd. 40 CFR 261 Identification and Listing of Hazardous Waste
  - ee. 40 CFR 262 Generators of Hazardous Waste
  - ff. 40 CFR 263 Transporters of Hazardous Waste
  - gg. 40 CFR 761 Polychlorinated Biphenyls
2. Connecticut Council on Soil and Water Conservation (CCSWC)
    - a. CCSWC GSESC Connecticut Guidelines for Soil Erosion and Sediment Control, latest edition
  3. Connecticut General Statutes (CGS)
    - a. CGS 29-401 - State of Connecticut Demolition Code  
CGS 29-415
  4. National Fire Protection Association (NFPA)
    - a. NFPA 70 National Electrical Code
    - b. NFPA 241 Safeguarding Construction, Alteration, and Demolition Operations

5. Regulations of Connecticut State Agencies (RCSA)
  - a. RCSA 19a-332a Connecticut Asbestos Regulations
  - b. RCSA 22a-4499(c) Connecticut Department of Energy and Environmental Protection (CTDEEP) Hazardous Waste Management
  - c. RCSA 22a-209 Connecticut Department of Energy and Environmental Protection (CTDEEP) Solid Waste Management
  - d. RCSA 22a-430 Connecticut Department of Energy and Environmental Protection (CTDEEP) Water Pollution Control
  - e. RCSA 22a-6k Connecticut Department of Energy and Environmental Protection (CTDEEP) Water Pollution Control
  
6. State of Connecticut
  - a. CTDPH 20-441 Refresher Training
  
7. State of Connecticut Department of Transportation (CTDOT)
  - a. CTDOT OEMCA On-Site Environmental Mitigation for Construction Activities, CTDOT Office of Environmental Planning, latest edition
  - b. FORM 814 State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges and Incidental Construction, Form 814, latest edition

### 1.3 REQUIREMENTS

- A. The CONTRACTOR shall perform work in compliance with all Federal, State and Local regulations and requirements and be responsible for obtaining and payment of fees for all permits and approvals required to perform the work. Applicable regulations and requirements may include, but are not limited to:
  1. Federal Regulations
    - a. Environmental Protection Agency (EPA) requirements for the management of hazardous waste including 40 CFR 260, 40 CFR 261, 40 CFR 262, 40 CFR 263, and 40 CFR 268.
    - b. Department of Transportation (DOT) requirements for the transportation of waste including 49 CFR 171, 49 CFR 172, and 49 CFR 173.
    - c. OSHA requirements for safety and health protection including 29 CFR 1910 and 29 CFR 1926.
    - d. NFPA 241, standards for fire protection during the work.
    - e. ANSI A10.6, safety requirements for demolition operations.
  
  2. State of Connecticut Regulations
    - a. Connecticut Department of Environmental Protection (CTDEP)
      - 1) Waste Management Bureau – requirements for hazardous, Connecticut-regulated and solid waste management, transport and disposal including RCSA 22a-449(c) and RCSA 22a-209.

- 2) Water Management Bureau – requirements for control of wastewater discharges and use of Best Management Practices (BMPs) to protect surface and groundwater including RCSA 22a-430 and 22a-6k.
  - 3) Air Management Bureau – requirements for control of fugitive dust and visible emissions and permitting of sources exceeding state limits.
  - b. Connecticut Department of Public Health (CTDPH)
    - 1) Requirements for management of asbestos abatement projects.
  - c. State Fire Marshal’s Office
    - 1) Requirements for licensing of demolition contractors and compliance with the State Demolition Code (CGS 29-401 through 29-415).
  - d. Connecticut Department of Transportation (CTDOT)
    - 1) Requirements for environmental mitigation for construction activities (CTDOT OEMCA).
  - e. Connecticut Council on Soil and Water Conservation (CCSWC)
    - 1) Requirements for soil erosion and sediment control (CCSWC GSESC).
3. Town of New Milford Regulations
- 1) Fire Department – requirements for fire protection during work.

#### 1.4 SUBMITTALS

- A. Submit to the OWNER the following a minimum of thirty (30) days prior to the start of work:
1. Site Safety and Health Plan (SSHP)
    - a. Submit a site and project specific SSHP, reviewed, approved, stamped, and signed by a Certified Industrial Hygienist (CIH) and a Certified Safety Professional (CSP). Conform to the requirements of Federal, State and Local laws, rules, and regulations. Work cannot proceed until the Safety Plan has been approved. The ENGINEER'S review is only to determine if the Plan meets basic regulatory requirements and the minimum requirements of this Section. The review will not determine the adequacy of the plan to address all potential hazards, as that remains the sole responsibility of the CONTRACTOR. The SSHP shall include:
      - 1) Identification and evaluation of the hazards and risks associated with the required activities for each site being studied, including exposure hazards and precautionary measures to be followed by workers for all hazards. Worker Right-to-Know considerations shall be addressed.
      - 2) Identification of supervisory personnel and alternates responsible for site safety/response operations. Name and title of person responsible for administering plan.
      - 3) Determination of levels of personal protection to be worn for various site operations.
      - 4) List of equipment with adequate nomenclature by item, that will be used at the job site, and the date and location where this equipment can be inspected.

- 5) Establishment of applicable work zones (e.g., exclusion area, contamination reduction area, and support area).
- 6) Establishment of decontamination methods and procedures.
- 7) Determination of the number of people required to enter the contamination zones, if required, during the initial entries and subsequent operations.
- 8) Establishment of emergency procedures, such as: escape routes, fire protection, signals for withdrawing work parties from site, emergency communications, wind indicators, and procedures for evacuation of injured workers.
- 9) Identification and arrangements with nearest medical facility for emergency medical care for both routine-type injuries and toxicological problems. Submit name, location, and telephone number of this medical facility. Include map indicating route to hospital for emergency medical care.
- 10) Establishment of applicable air quality and personnel monitoring procedures. This shall include air monitoring and action levels for lead, asbestos, PCBs, mercury and other site contaminants (irrespective of monitoring performed by the Project Monitor/ENGINEER).
- 11) Establishment of procedures for handling potentially contaminated materials.
- 12) Identification of medical monitoring program, including respirator medical qualification examination for each individual at the work site.
- 13) Certification for each person entering the reduction or exclusion zones that the person is fit for duty at hazardous waste sites, and adequate medical screening tests have been obtained which address the contaminants associated with the specific hazardous waste site.
- 14) Identification of training plan to be instituted, including contents of 29 CFR 1910.1200 and 29 CFR 1910.134; training contents; and instructor with appropriate training certification. Training plan shall also include counseling to each employee to exposure hazards.
- 15) Establishment of a respiratory protection program conforming to 29 CFR 1910.134 and ANSI Z882.
- 16) Establishment of a hazard communication program (29 CFR 1910.1200).
- 17) 29 CFR 1910.
- 18) 29 CFR 1926.
- 19) Lead Exposure Control Plan (29 CFR 1926.62).
- 20) 29 CFR 1926 Subpart T, demolition measures, and Subpart P, excavation measures.
- 21) 29 CFR 1926 Subpart V, tagout and lockout procedures. Provide positive means of locking out equipment so that equipment cannot be accidentally started during maintenance or release or stored energy.
- 22) SDS, Safety Data Sheets, for all hazardous materials brought on-site.
- 23) NFPA 241.
- 24) Work in confined spaces. Submit a Confined Space Entry Procedure (CSEP) for approval. CSEP shall identify the name and qualifications of the person responsible for testing the confined space work environment.

Allow a minimum of 5 working days prior to beginning this work for obtaining approval and any required permits.

- a) Entry into a confined or enclosed space by personnel for any purpose, including hot work, shall be prohibited until the qualified person has conducted appropriate tests to ensure the confined or enclosed space is safe for the work intended.
  - i) Confined Space. Refers to a space which by design has limited openings for entry and exit; unfavorable natural ventilation which could contain or produce dangerous air contaminants, or which is not intended for continuous occupancy. Confined spaces include, but are not limited to, storage tanks, process vessels, pits, silos, vats, degreasers, reaction vessels, boilers, ventilation and exhaust ducts, sewers, tunnels, underground utility vaults, and pipelines.
  - ii) Qualified Person. A person designated by the CONTRACTOR, in writing, as capable by education or specialized training, of anticipating, recognizing, and evaluating employee exposure to hazardous substances or other unsafe conditions in a confined space. This person shall be capable of specifying necessary control and protective action to ensure worker safety.
- b) Daily Confined Space Entry Permit shall be completed by the qualified person. The permit shall be posted in a conspicuous place close to the confined space entrance with a copy to the SSHO.
- c) Submit to SSHO a letter of certification for the qualified person. The letter shall state the qualified person's name and qualifications and delineate the qualified person's authority to direct work stoppage in the event of hazardous conditions.

25) Accident Prevention Program

- a) With respect to hazardous materials, the accident prevention program shall include provisions to deal with hazardous material. The plan shall consist of:
  - i) An index of hazardous materials to be introduced to the site;
  - ii) Plan for protecting personnel and property during the transport, storage and use of the materials;
  - iii) Procedures for spill response and disposal including a list of spill response materials stored on site;
  - iv) Safety Data Sheets for all hazardous materials brought on-site. Post Safety Data Sheets at the work site for readily available access by all employees.
  - v) Approved labeling system to identify contents on all containers on site;
  - vi) Personnel training plan.

26) Hazardous Noise

- a) Provide a written hearing protection program which will include: hazardous noise signs, as directed, wherever equipment and work procedures produce sound levels greater than 84 dBA or 140 db peak sound level.

- 27) Fire Protection/Hot Work
    - a) Submit a written fire protection program describing the materials and methods to be used to provide protection against fire during the project. Coordinate activities with the Town of New Milford Fire Department.
  - 28) Spill Response Program and Emergency Response Plan (see applicable requirements herein).
  - 29) Certification that all CONTRACTOR employees are trained in accordance with this specification.
  - 30) Provide a copy of the CONTRACTOR'S Heat or Cold Stress Monitoring Program.
  - 31) List of all CONTRACTOR and SUBCONTRACTOR personnel proposed to enter the site.
  - 32) Site security plan (see applicable requirements described herein).
  - 33) Safety logs documenting any toolbox training sessions, first aid injuries, hazardous material spills, recordable injuries and near-miss incidents are to be maintained by each CONTRACTOR and submitted to the OWNER.
  - 34) Training logs, including, but not limited to, records of confined space training, and hazard communication training, as applicable, and site-specific safety hazard awareness training are to be maintained by each CONTRACTOR and available on site for review by the OWNER.
  - 35) All accident reports and documentation of corrective actions taken shall be submitted to the OWNER.
- b. An asbestos specific SSHP must also be submitted along with the general SSHP.
    - 1) If information in the Asbestos SSHP is identical to the site specific general HASP, then this must be referenced in one of the documents and will be considered adequate.
  - c. Submit minutes of weekly safety meetings at periodic progress meetings.

**PART 2 – PRODUCTS - Not Used**

**PART 3 – EXECUTION**

**3.1 GENERAL RESPONSIBILITIES**

- A. CONTRACTOR shall be responsible for the safety and health of all CONTRACTOR and Subcontractor workers during progress of the Work including, but not limited to, construction safety and environmental health and safety.
- B. The Provisions of worker safety and/or health protocols that address compliance with rules, laws, and regulations pertaining to construction safety and/or the potential and/or actual risk of exposure to site-specific physical or chemical hazards posed to CONTRACTOR and Subcontractor employees is solely the responsibility of the CONTRACTOR.

- C. It shall be the responsibility of CONTRACTOR to coordinate between all personnel, subcontractors, sections, and trades as required for safe completion of the Work.
- D. CONTRACTOR shall be obligated to communicate any potential or known safety hazards of which he may become aware during the progress of the Work, if such safety hazards pose a risk to others.
- E. Key Personnel: The CONTRACTOR shall provide, at a minimum, resumes of key personnel involved in all phases of construction. This chart shall include senior level management, Project Manager, Site Safety and Health officer (SSHO), field supervisor, and foreman personnel.
- F. Site Safety and Health Officer (SSHO). The CONTRACTOR shall employ or contract a qualified individual (e.g., a Certified Industrial Hygienist, Safety Engineer, etc.) to function as the SSHO for the project. That individual shall be responsible to the CONTRACTOR and have the authority and knowledge necessary to implement the SSHP and verify compliance with applicable safety and health requirements.
- G. At a minimum, the SSHO shall have the following responsibilities and authority to perform the following functions:
  - 1. Visit the site as needed to ensure that the SSHP is being implemented, ensure that daily tailgate safety meetings are being conducted by the Field Supervisor/Site Foreman, and provide any necessary training to on-site personnel.
  - 2. Have the authority to enforce the SSHP and stop operations if safety and health of personnel may be jeopardized.
  - 3. Effect evacuation of the site if necessary.
  - 4. Evaluate monitoring data to make field decisions regarding safety and health.
  - 5. Respond and visit the site within 24 hours of notification from the ENGINEER or OWNER regarding health and safety violations and concerns.
- H. The SSHO shall meet the following minimum qualifications:
  - 1. Possess a sound working knowledge of State and Federal occupational safety and health regulations, hazardous waste management, and asbestos and lead abatement regulations.
  - 2. Have formal educational training in occupational safety and health.
  - 3. Have a minimum of four (4) years experience in the environmental and health and safety services field, chemical industry, or chemical waste disposal industry more than 50% of which must be in the area of industrial hygiene and/or environmental safety.
- I. CONTRACTOR shall conduct and attend safety briefings prior to initiating any new site activity, and a safety meeting held prior to each shift to ensure that employees are appraised of the requirements of the safety and health plan and that they are being followed.

- J. Implement and follow SSHP requirements throughout the project. Modify SSHP as necessary during the project to address any unanticipated hazards.

### 3.2 HAZARD ASSESSMENT

- A. The CONTRACTOR shall perform and provide a hazard assessment for each location and operation to be performed. The hazard assessment shall be based on the best information available regarding contaminants and conditions present at the site as well as the practices and tools to be applied in the operation and shall include, but not be limited to, the following:

1. A preliminary evaluation of the site's characteristics
2. An evaluation of the known (including the use of Chemical Safety Data Sheets) or suspected contaminants and conditions that may pose inhalation, skin absorption/contract, or ingestion hazards.
3. An evaluation of known or potential safety hazards associated with each task.
4. An overview of the site including descriptions of the operations and tasks to be performed. Include the following:
  - a) Size and location of the site.
  - b) Description of the operation and tasks to be performed.
  - c) Approximate duration of the operation and each task.
  - d) Site topography and special features (e.g., structures, tanks, etc.).
  - e) Known or suspected pathways of contaminant dispersion pertinent to the operation and tasks performed.
  - f) Site accessibility.
  - g) Safety and health hazards expected on the site.

- B. Site hazards to be evaluated shall include, but are not limited to: hot work, fires; explosions; oxygen deficiency; excavation hazards; presence of and potential exposure to potential contaminants and hazardous materials; equipment operation; confined space entry; slips, trips, and falls; falling debris; encountering unmarked utilities; and stored energy. The CONTRACTOR shall review site documentation available from the OWNER in developing such hazard assessments. However, CONTRACTOR is advised that no responsibility is assumed by the ENGINEER or OWNER for subsurface conditions other than at the locations, and at that time, the explorations that were made.

### 3.3 EMPLOYEE TRAINING

- A. The Site Safety and Health Officer (SSHO) shall meet requirements specified. In addition, any employees who have been designated as responsible for responding to on-site emergencies shall have received appropriate training to how to respond to such expected potential emergencies prior to the start of site operations.
- B. The CONTRACTOR shall provide site specific training and perform daily safety briefings (tailgate safety meetings) that will provide an awareness of planned operations, the site specific SSHP, the form and warning properties of potential hazards, work zones,

locations of emergency/safety equipment, local emergency response procedures, site characteristics, levels of protection, communications, decontamination procedures, emergency facilities and signals, and evacuation procedures. The CONTRACTOR shall provide written certification of completed training for all employees designated to engage in on-site activities. Such certifications shall be endorsed by the SSHO and be incorporated into the SSHP for the project.

- C. Site workers who are in repeated close proximity to excavated contaminated or hazardous materials shall be trained in health and safety procedures according to the OSHA 29 CFR 1910.120. OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) standard training consisting of a minimum of 40 hours of off-site training and a minimum of 24 hours of actual field experience under the direct supervision of a trained experienced supervisor is required for all site workers prior to any work on the site. Current annual HAZWOPER refresher training is also required as appropriate. Site workers without the 24 hours of actual field training required by this standard may receive the actual field experience on this project under the direct supervision of a trained experienced supervisor. The CONTRACTOR shall provide a full-time trained experienced supervisor that has an additional 8 hours of supervisory training in accordance with 40 CFR 1910.120(e)(4). Copies of written certificate documenting all HAZWOPER training shall be provided to the OWNER and ENGINEER prior to the start of the project.
- D. The CONTRACTOR shall provide written certification of completed training and/or acquired experience for all employees designated to engage in on-site activities and shall be supplied prior to the start of site operations. Such certification shall be endorsed by a member of top level management, a corporate officer, or the health and safety program manager and shall be incorporated into the SSHP for the project. Employees who have not received the required training prior to the start of site operations are not to engage in site operations until such training has been completed.
- E. The CONTRACTOR shall include in the SSHP a summary of the hazardous materials safety and health training program and a list of elements and topics covered.

### 3.4 PERSONNEL PROTECTION

- A. The CONTRACTOR shall apply engineering and/or work practice controls as a means of protecting personnel in performance of site-specific tasks. Engineering controls shall be implemented to reduce and maintain employee exposure at or below safe levels for those tasks demonstrating known or suspected hazards. Work practice controls shall be applied when engineering controls are impractical and shall be incorporated in site-specific standard operating procedures (SOPs) for personnel precautions and routine operations.
  - 1. Personal Protective Equipment and Levels of Protection
    - a. The CONTRACTOR shall use personal protective equipment (PPE) only when engineering and/or work practice controls have been deemed impractical or insufficient to protect employees during site operations.

- b. The CONTRACTOR shall select PPE based on an evaluation of performance, characteristics, site specific tasks, and known or suspected hazards, and shall assemble the PPE into levels of protection (LOP) or ensembles appropriate for the site.
- c. The CONTRACTOR shall include in the SSHP a list of components for each protective ensemble, and LOP selected for each task, the rationale for each task-specific selection, and any contaminant action levels to be followed in LOP decision making.
- d. The CONTRACTOR shall include a description of their respiratory protection program and the method of respirator fit testing employed.
- e. The CONTRACTOR shall only make use of NIOSHA/MSHA approved respiratory protective equipment.
- f. The CONTRACTOR shall establish a PPE program addressing the following elements:
  - 1) Site hazards
  - 2) PPE selection
  - 3) PPE use
  - 4) Duration of site operations
  - 5) PPE maintenance and storage
  - 6) PPE decontamination
  - 7) PPE training and proper fit
  - 8) Donning and doffing procedures
  - 9) PPE inspection
  - 10) PPE in-use monitoring
  - 11) Evaluation of program effectiveness
  - 12) Heat stress and temperature limitations

### 3.5 MEDICAL SURVEILLANCE

#### A. Medical Surveillance Program

1. The CONTRACTOR shall establish and implement a medical surveillance program (MSP) for employees engaged in on-site operation in accordance with 29 CFR 1910, which shall be incorporated into the SSHP for the project.
2. The MSP program shall include physical examinations administered by a board certified physician familiar with internal or occupational medicine. The CONTRACTOR shall include the name and business address of the administering physician in the SSHP.
3. The CONTRACTOR shall include the components of both the MSP program and the physical examination in the SSHP.
4. The CONTRACTOR shall address the need for personal exposure monitoring and post exposure medical screening in the SSHP and include a description of those provisions.

- B. Retention of Medical Records
  - 1. The CONTRACTOR shall retain all medical records and personnel exposure monitoring data for an appropriate period as described in Subpart C of 29 CFR 1910.20 of the Occupational Safety and Health Administration.
  
- C. Personnel Certification
  - 1. The CONTRACTOR shall provide written certification of medical fitness for work of all employees designated to engage in on-site operations prior to the start of those operations.
  - 2. Such certification shall be endorsed by a member of top level management, a corporate officer, or the health and safety program manager, and shall be incorporated into the SSHP.
  
- D. Employee Heat and Cold Stress Monitoring
  - 1. As dictated by seasonal conditions, the CONTRACTOR shall implement an employee heat or cold stress monitoring program during the site operations and shall incorporate the program into the site SSHP.
  - 2. The program shall include employee awareness of the signs and symptoms of heat or cold stress, preventive measures, and employee parameters to be monitored.
  - 3. The CONTRACTOR shall maintain a daily heat or cold stress log on all employees on-site engaging in field activities and shall describe the log in the SSHP.

### 3.6 SITE CONTROL

- A. The CONTRACTOR shall be responsible for conducting operations at the site in a manner as to reduce the possibility of contact with any contaminants present and to prevent the removal of contaminants by personnel or equipment leaving the site.
  
- B. The CONTRACTOR shall delineate and demarcate the work zones in which specific operations or tasks will occur and shall institute specific site entry and decontamination procedures for designated control points.
  
- C. The CONTRACTOR shall keep a daily log of site activities, including personnel visiting site, affiliation, date, arrival time, departure time, and purpose of the visit. Site visitors shall sign in on the site log and be escorted by the CONTRACTOR or ENGINEER (suitable PPE required).
  
- D. The CONTRACTOR shall provide the OWNER with a list of all CONTRACTOR and SUBCONTRACTOR personnel authorized to enter the site prior to start of operations, updating the list as necessary.
  
- E. The CONTRACTOR shall provide and implement a plan for site security including prevention of unauthorized entry onto the site and prevention of vandalism. The site shall be secured at all times and access controlled by the CONTRACTOR.



### 3.9 OVERHEAD ELECTRIC LINES

- A. If construction, excavation, or backfilling equipment (crane derricks, excavator arms, lifts, dump truck beds, etc.) at the site can potentially come within a 15' radius of overhead electrical lines, a dedicated spotter must be used for each such piece of equipment. The spotter must be in continuous radio and line of sight communication with the equipment operator and be capable of immediately stopping the equipment operation if any portion of the equipment is in danger of penetrating the 15' radius overhead electrical line safety zone. The spotter shall be an experienced and qualified equipment operator. The operator shall not move equipment into the vicinity of overhead electrical lines without spotter's acknowledgment and approval. Provide other suitable precautions (e.g., flagging, signage or de-energized lines) as required.

### 3.10 CONTINGENCY PLANNING

- A. The CONTRACTOR shall develop and implement an Emergency Response Plan (ERP) to handle anticipated on-site emergencies prior to start of site operations. The ERP shall be incorporated into the SSHP as a separate section of that document and shall be periodically reviewed and amended to keep it current with new or changing site conditions or information.

### 3.11 DEFICIENCIES

- A. The ENGINEER or OWNER may stop any operation that the CONTRACTOR has been directed to correct and has not corrected. The ENGINEER or OWNER will stop any CONTRACTOR operations that pose an imminent or immediate health or safety hazard to life or property, and which may include, but is not limited to, CONTRACTOR employees, facility personnel, other on-site personnel, public, or the environment. If the CONTRACTOR does not comply with the stoppage and immediately correct a health or safety deficiency, then the ENGINEER or OWNER may retain the services of another CONTRACTOR to correct the deficiency. All liability and expenses resulting from such work stoppages and deficiency correction shall be the responsibility of the CONTRACTOR.

END OF SECTION

**SECTION 02 12 00**  
**PCB CONTAMINATED CONCRETE REMOVAL & DISPOSAL**

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**PART 1 - GENERAL**

1.1 GENERAL

- A. This section defines requirements for the removal, management, storage and disposal of PCB Contaminated Materials generated, collected and consolidated during removal of concrete from the slab inside Station B during performance of the work at the Project Site.
- B. Work included under this section includes but may not be limited to:
1. Removal of contaminated concrete by use of scabbling equipment to the depths specified on the contract drawings. Scarifying, grinding and milling will not be permitted to be used for this project.
  2. Erection of portable containments around scabbling and active work areas to control the spread of dust as required by the ENGINEER.
  3. Erection of scaffolding with wood plank decking above to protect workers from falling roof debris in the area shown on the contract drawings.
  4. Dust control including, capture and collection of dust and fine particulate through the use of a specially designed scabble equipment dust collection shroud connected to a HEPA vacuum filter system.
  5. Removal and collection of all dust, concrete chips and aggregate from the floor surface.
  6. Wet saw cutting, jack hammering and removal of cement/concrete filled steel grating as show on the contract drawings. Collection of dust, residue and water from saw cutting to remove and dismantle the filled grating.
  7. Movement and placement of contaminated dust, concrete and aggregate into sealed steel 55 gallon drums suitable to shipment for disposal.
  8. Decontamination of tools, equipment and vehicles and the collection, management and disposal of resulting liquids and/or solids.
  9. Other work involving the handling of Contaminated Materials which may be required including but not limited to work area preparation, temporary building stabilization systems, temporary protection systems, removal of obstructions, and any incidental work related thereto.
- C. The disposal of Contaminated or Hazardous materials is not explicitly included in the work of this Section. Refer to Section 02 12 50 - Transportation and Disposal of

## Contaminated Materials.

- D. CONTRACTOR shall coordinate work between all subcontractors, sections, and trades required for the proper completion of the work.
- E. CONTRACTOR is responsible for the health and safety of all CONTRACTOR and Subcontractor workers during progress of the work.

### 1.2 DEFINITIONS

- A. General: Refer to the Agreement for basic Contract Definitions.
- B. Contaminated Material: A material or waste, including liquids, solids, debris, equipment, machinery, miscellaneous waste, or combination thereof affected by the presence of any organic or inorganic chemical substance which, because of its quantity, concentration, or physical, chemical or infectious characteristics may cause, or significantly contribute to an increase in serious irreversible, or incapacitating reversible illness or pose a substantial present or potential hazard to human health, safety, or welfare or to the environment when improperly handled, treated, stored, transported, used or disposed of, or otherwise managed, or by regulation is controlled in it's handled, treatment, storage, transportation, use, or disposal. Contaminated Materials shall be synonymous with Hazardous Material, and may also include those materials defined as Contaminated Soils, Polluted Soils, Regulated Waste, Special Waste, or Hazardous Waste.
- C. Non-Porous Materials: Non-porous material means any material that does not allow PCBs to pass into itself, including, but not limited to, metals and high-density plastics, and above cleanup criteria as defined in Federal PCB Regulations 40 CFR 761.
- D. Porous Materials: Porous Material means any material that allows PCBs to pass into itself including, but not limited to, cardboard, uncoated wood, low density plastics such as Styrofoam, and paper.
- E. Special Handling: Methods used to remove, collect, grade, load, move, transport, stockpile, dispose, or otherwise manage a Contaminated Material or Contaminated soil are such that (1) the spillage, loss, co-mingling, or uncontrolled deposition of such material is minimized, (2) personal exposure to contaminants present in such a material are minimized, (3) the adverse impacts to the community and the surrounding environment from contaminants present in such material are minimized, (4) all regulatory requirements applicable to such activity are satisfied.

### 1.3 QUALITY ASSURANCE

- A. All Contaminated Material excavated or otherwise collected, consolidated and managed during the course of the work will require Special Handling in accordance with these specifications, CONTRACTOR Health and Safety Plan, and all applicable permits, approvals, authorizations, and Regulations.
- B. The handling of Contaminated Materials shall be performed with equipment and

techniques established by CONTRACTOR in accordance with the performance requirements defined herein. ENGINEER'S duties do not include supervision or direction of the actual work by CONTRACTOR, his employees or agents. Neither the presence of ENGINEER nor any observation and testing by ENGINEER shall excuse CONTRACTOR from defects, regulatory or otherwise, discovered in his work.

#### 1.4 SHEETING, SHORING AND PROTECTION

##### A. Roofing System

1. Inspections of the wood plank and beam roofing system within the limits of the building indicate the system is deteriorated and structurally unsound in portions of the building. Where suitable alternatives are not available, CONTRACTOR shall provide adequate protection for workers from falling debris from the deteriorated roof above. Scaffolding, shoring, bracing, or suitable support system is required to prevent debris from impacting workers such roofing system and protection of personnel during performance of the work.

B. Heavy equipment shall not be permitted to operate on the floor slab inside the building. All equipment used on this project shall not exceed 1000 pounds. If heavier equipment is required then the CONTRACTOR shall secure the services a Connecticut-licensed Professional Structural Engineer retained by CONTRACTOR to evaluate and certify the load capacity of the floor slab. Such designs shall be based upon any required inspections, surveys, or analysis as CONTRACTOR'S Connecticut-licensed Professional Structural Engineer may deem appropriate. Such designs shall be submitted as early as possible to prevent delays to the overall project schedule.

1. All temporary measures shall be designed and installed in conformance with all applicable Federal, State and local codes and standards.
2. CONTRACTOR shall obtain all required permits, approvals or authorizations required.

#### 1.5 SUBMITTALS

##### A. Contaminated Materials Remediation Work Plan

Submit a detailed Work Plan describing means and methods for performance of all aspects of PCB Contaminated Concrete Floor Slab and related aspects that are part of the Contract (PCBs and other contaminants, as applicable) including, but not limited to: confirmation and markout of locations to be remediated and sampled; equipment; site preparations; decontamination procedures; handling of materials; dust control; temporary storage/stockpiling; loading, transportation and disposal; and, restoration of remediated areas. Include supporting figures and documentation, as needed. Where certain aspects are suitably addressed in other plans required by the Contract Documents, reference to those plans may be utilized, without reincorporating all of the same details. The Work Plan shall confirm that applicable portions of the work will be performed in accordance with the EPA-approved Self-Implementing PCB Remediation Plan, and clearly demonstrate how this will be accomplished. Submit plan as early as possible in the project

to prevent delays to the overall project schedule (in no case later than 15 days prior to anticipated start of the work).

- B. Present scaffolding/planking protection design plans and documentation, as applicable. Submit documentation as early as possible in the project to prevent delays to the overall project schedule (in no case later than 15 days prior to anticipated start of the work).

## **PART 2 - PRODUCTS**

### **2.1 GENERAL**

- A. CONTRACTOR shall provide all employees and Subcontractor(s) with personal protective equipment and protective clothing consistent with the levels of protection for this work as indicated in CONTRACTOR'S Health and Safety Plan.
- B. Equipment for floor scabbling shall be Novatek Model NFS-11 Floor Scabbler equipped with PFS451 NFS-11 Dust Collection Shroud or equal approved by ENGINEER.
- C. Dust collection shall be via HEPA vacuum collection equipment sized to fit the floor scabbling unit.
- D. Saw cutting of concrete to remove the concrete filled steel grating shall be a wet system diamond blade saw with wet vacuum pickup of water/slurry residual.

## **PART 3 - EXECUTION**

### **3.1 GENERAL**

- A. Perform all Contaminated Material handling operations in accordance with standard engineering practices applicable to such activity, according to Connecticut and Federal regulations, and according to the provisions of CONTRACTOR Health and Safety Plan. Methods shall be utilized which consider the health and safety of all CONTRACTOR and subcontractor personnel, support personnel, ENGINEER and his representatives, and the surrounding environment.
- B. All site health and safety controls shall be fully established and in operation prior to beginning any Contaminated Material handling activity. Site controls shall include but not be limited to work zones properly barricaded, decontamination facilities, air monitoring, and all support equipment and supplies including personal protective equipment. CONTRACTOR'S attention is called to Section 01 35 00 – Health, Safety, and Emergency Response.
- C. Minimize the spread of Contaminated Materials during handling. Trucks or other conveyances deemed unacceptable for use by ENGINEER shall not be used for the movement of Contaminated Materials.
- D. Keep work areas, including but not limited to, areas adjacent to excavations, roadways

leading to and from excavation areas, driveways, parking areas, and public roadways free of Contaminated Materials. If such materials are deposited, spilled, or spread, such material shall be removed promptly, and properly disposed of to the satisfaction of ENGINEER no later than the end of each working day or as requested by ENGINEER.

- E. CONTRACTOR shall minimize the spread and loss of Contaminated Materials during removal activities.
  - 1. Following removal, Contaminated Materials shall be direct loaded and/or properly containerized. Removed Contaminated Materials shall not be placed directly on the floor of the building. Except where specified otherwise, PCB-impacted materials shall be temporarily stored (to the extent allowed by 40 CFR 761) in sealed 55-gallon steel drums pending characterization consistent with the Self-Implementing PCB Remediation Plan. Concrete filled steel grating shall be cut into sections small enough to manage and place into a lined roll-off for offsite disposal.
  - 2. CONTRACTOR shall employ methods necessary to isolate Contaminated Materials from non-contaminated surfaces and materials, and greater than or equal to 500 mg/Kg PCB Remediation Waste from less than 50 mg/Kg PCB Remediation Waste.
- F. Transport and dispose of contaminated liquids/liquid hazardous waste in a manner that is fully compliant with applicable RCRA, TSCA, and other regulations and guidance (e.g., does not violate land disposal restrictions).
- G. Perform scabbling and cutting of PCB-impacted concrete in a manner that completely captures dust and fluids using suitable vacuum equipment and/or other approved means.

### 3.2 SCAFFOLDING PROTECTION

- A. Install temporary scaffolding protection systems before proceeding with the work. Design and installation of such systems shall be in conformance with Connecticut- licensed Professional Structural Engineer's design.
- B. Conduct regular inspections of all temporary scaffolding systems as the work proceeds. Stop work and make necessary corrections if any system or portion thereof is damaged or otherwise unsafe, inoperative, or out of order.
  - 1. Temporary scaffolding systems shall be decontaminated and removed upon completion of the work.

### 3.3 CONSOLIDATION OF MISCELLANEOUS SOLID WASTE

- A. Comply with applicable Federal, State and local laws for proper collection and management of all miscellaneous solid wastes.
- B. Porous/Non-Porous Miscellaneous Materials

1. Within the limits of the existing building, collect and legally dispose of all Porous/Non-Porous materials identified in the Contract Documents.
2. Utilize appropriate collection and handling techniques so as to avoid the spread of PCB contamination and protect worker health and safety at all times.
3. Utilize appropriate containers for the storage of such items. Stage containers at a location or locations approved by ENGINEER.
4. ENGINEER will have final determination regarding specific classification of miscellaneous solid waste within the building with respect to a particular item or material's classification as Porous/Non-Porous and if it will be disposed of.

### 3.4 DECONTAMINATION OF NON-POROUS MATERIALS

- A. Comply with applicable Federal, State and local laws for proper decontamination and management of all non-porous materials, including all equipment used on the project.
- B. Conduct performance based decontamination of non-porous materials in accordance with 40 CFR 761.
  1. CONTRACTOR shall conduct wipe sampling verification to ensure the concentration objective of less than  $10 \mu\text{g}/100\text{cm}^2$ .
  2. CONTRACTOR is responsible for collecting and containing all decontamination fluids without allowing release to the floor or subsurface.
  3. CONTRACTOR shall submit a detailed decontamination plan to the EPA and the ENGINEER for approval prior to the commencement of work.
  4. CONTRACTOR is responsible for the collection and disposal of all decontamination fluids.

### 3.5 REMOVAL OF PCB-IMPACTED CONCRETE

- A. Remove, collect, and prepare for disposal PCB-contaminated concrete, aggregate and steel grating as described in the Self-Implementing PCB Remediation Plan, and otherwise specified. Unless specified otherwise, the remedial endpoint for PCB-impacted concrete shall be less than 1 mg/kg.
- B. Utilize only approved scabbling equipment fitted with a dust shroud and HEPA exhaust system for dust collection to remove concrete from the floor slab. Use only wet diamond blade saw systems with wet vacuum pickup to remove the cement/concrete filled steel grating and jack hammer to pry up the grating. Remove concrete to a generally uniform, clean edge. Moveable temporary containments shall be erected and used to control dust around active work areas.

- C. Take all necessary precautions to prevent the generation of dust. Minimize the amount of water generated to the extent practicable. Control the spread of water used for dust control.
- D. Handle PCB-impacted concrete as a greater than or equal to 500 mg/Kg PCB Remediation Waste from the area shown on the Contract Drawings, or less than 50 mg/Kg PCB Remediation Waste, based on associated delineation, confirmation, and/or waste characterization analytical data, whichever is most stringent for the collected material.

### 3.6 CONCRETE REPAIR

- A. Repair concrete slab to original grade in accordance with Section 03 61 00 – Non-Shrink Structural Grout following confirmation sampling and testing performed by the ENGINEER confirming PCB concentrations less than 1 mg/kg. Match adjacent slab elevations and leave with a rough broom finish.

### 3.7 UNFORESEEN CONTAMINATED MATERIALS

- A. In the event that unforeseen Contaminated Materials are encountered during the course of the work, CONTRACTOR shall allow ENGINEER sufficient time to devise an appropriate course of action based upon the conditions present. No claim for delay will be considered based upon the time frame required by the ENGINEER to complete such work.
  - 1. Until such appropriate course of action is devised, CONTRACTOR shall secure the work area in question such that it does not pose a health and safety risk.
  - 2. ENGINEER will provide CONTRACTOR with a scope of work and performance requirements for the collection, consolidation, removal or excavation of Contaminated Material. CONTRACTOR shall then undertake Contaminated Material remediation with equipment and techniques established by CONTRACTOR in accordance with said scope of work and performance requirements.
- B. CONTRACTOR'S Contaminated Material remediation in accordance with said scope of work shall be performed in accordance with this specification and be paid for as a Change in Work, as defined by the Agreement.

### 3.8 DELINEATION AND/OR CONFIRMATION TESTING BY ENGINEER

- A. At such time the ENGINEER is satisfied that the limits of Contaminated Material have been reached, ENGINEER will perform appropriate confirmation sampling to confirm remediation objectives have been achieved and no additional Contaminated Material excavation or removal is required. CONTRACTOR shall provide assistance to ENGINEER in collection of such samples. This shall also apply to collection of delineation samples, where indicated.
- B. CONTRACTOR is hereby notified that laboratory turnaround time for the analysis of confirmation samples may be up to seven (7) working days from date of collection. No claim for delay will be considered based upon CONTRACTOR failing to accommodate the laboratory turnaround time as defined herein.

- C. ENGINEER will inform CONTRACTOR if test results confirm remediation objectives have been achieved and concrete restoration may proceed.
- D. Should the results of ENGINEER'S testing indicate additional Contaminated Material removal is required, ENGINEER will define those areas beyond the limits originally indicated where additional Contaminated Material excavation or removal shall be required.
- E. Following the completion of excavation, the CONTRACTOR shall decontaminate their equipment as required.

### 3.9 STORAGE OF EXCAVATED/REMOVED MATERIALS

- A. Except for PCB-impacted materials, excavated contaminated material shall be temporarily stockpiled on-site in accordance with the requirements defined in applicable portion of the Contract Documents.
- B. Except where specified otherwise, PCB-impacted materials shall be temporarily stored in sealed 55-gallon steel drums and secured, lined, covered roll-off containers on unmilled portions of the building slab, or other approved locations, for a maximum of 30 days. The start of the period of waste storage for each container will start on the day in which wastes are first loaded into a container and will terminate when the container is transported offsite.
- C. The CONTRACTOR shall be responsible for all costs associated with investigation and remediation of any areas contaminated due to the failure of the CONTRACTOR to comply with waste storage requirements.

### 3.10 DUST CONTROL

- A. CONTRACTOR shall implement fugitive dust suppression to prevent unacceptable levels of dust resulting from handling operations associated with Contaminated Materials. Supervise fugitive dust control measures and monitor airborne particulate matter as required.

END OF SECTION

**SECTION 02 12 50**  
**TRANSPORTATION AND DISPOSAL OF CONTAMINATED MATERIALS**

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Under this Section CONTRACTOR shall provide all labor, materials, tools and equipment necessary for the coordination, loading, transportation and disposal of Contaminated Materials associated with remediation activities.
1. To the extent incorporated into the Contract, Contaminated Materials to be disposed may include, but may not be limited to contaminated concrete, aggregate, dust concrete/cement filled steel grating, sludge, water, decontamination residuals, PPE and miscellaneous contaminated debris which will all be classified as TSCA PCB Remediation Wastes.
  2. All Contaminated Materials excavated, consolidated or otherwise managed during the course of the work will require Special Handling in accordance with these specifications, the CONTRACTOR'S Health and Safety Plan, and all applicable permits, approvals, authorizations, and Regulations.
  3. The disposal of Contaminated Materials will occur at facilities proposed by CONTRACTOR and approved by OWNER.
  4. CONTRACTOR shall coordinate work between all subcontractors, sections, and trades required for the proper completion of the work.
  5. CONTRACTOR is responsible for the health and safety of all CONTRACTOR and Subcontractor workers during progress of the work.

1.2 DEFINITIONS

- A. General: Refer to the Project Manual, including Agreement, for Basic Contract Definitions.
- B. Disposal means the discharge, deposit, injection, dumping, spilling, leaking, incineration or placing of any Contaminated Material or otherwise hazardous substance into or on any land or water so that such hazardous waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including ground waters.
- C. Generator means any person, by site, whose act or process produces hazardous waste, or whose act first causes a hazardous waste to become subject to regulation.
- D. Regulated Waste: Includes non-Resource Conservation and Recovery Act (RCRA) hazardous wastes such as oils, petroleum products or residuals, chemical liquids, chemical gases or vapors, Toxic Substances Control Act (TSCA)-regulated wastes, waste chemical

solids, including soils, and other Contaminated Material wastes not defined as RCRA Hazardous, or Special Waste.

- E. Special Wastes: The following wastes, so long as they are not hazardous waste pursuant to Section 22a-115 of the General Statutes or radioactive material subject to Section 22a-148 of the General Statutes: (1) water treatment, sewage treatment, or industrial sludges, liquid, solids and contained gases; fly-ash and casting sands or slag; and contaminated dredge spoils; (2) scrap tires; (3) Bulky Waste; (4) asbestos; and (5) biomedical waste.
- F. TSCA-Regulated Waste or TSCA Waste: Includes any waste regulated under Federal PCB Regulations 40 CFR, Part 761.
- G. Manifest means an approved form used as a shipping document to identify the quantity, composition, and the origin, routing, and destination of regulated or hazardous waste from the site of generation to the point of disposal, treatment, storage, or use.
- H. Shipping Paper means an invoice, bill of lading, or other shipping document serving a similar purpose; other than a hazardous waste manifest used to document the conveyance of materials between different locations, including regulated wastes when applicable.
- I. Treatment means any method, technique or process, including neutralization, incineration, stabilization or solidification, designed to change the physical, chemical or biological character or composition of any hazardous waste so as to neutralize such waste or so as to render such waste less hazardous, non-hazardous, safer to transport, amenable to storage, or reduced in volume, except such method or technique as may be included as an integral part of a manufacturing process at the point of generation.

### 1.3 SUBMITTALS

- A. Bidders are required to propose the disposal facilities as part of their bid for the project. The list of proposed disposal facilities will be provided to EPA for approval prior to award to CONTRACTOR. Bidder shall provide the following information in their bid:
  - 1. Name of treatment/disposal facility or facilities which CONTRACTOR proposes to utilize to receive Contaminated Materials from the Project.
  - 2. Information for proposed treatment/disposal facility or facilities including the following:
    - a General Information
      - 1) Facility Name
      - 2) Facility Address
      - 3) Name of Contact Person
      - 4) Title of Contact Person
      - 5) Telephone Number of Contact Person
      - 6) Permit Number.

- b The facility shall specify the volume of material that can be accepted from the Project on a weekly and a total basis.
  - c The facility shall provide written confirmation that they are permitted to accept and will accept the classified Contaminated Materials the general quality and quantity described by these specifications.
  - d The facility shall provide a listing of all current and valid permits, licenses, letters of approval, and other authorizations to operate that they hold, pertaining to the receipt and treatment/disposal of the Contaminated Materials described by these specifications.
3. Submit a complete list of the disposal facility's permitted allowable contaminant levels and physical characteristic requirements for contaminated material, and list any required regulatory approvals for individual waste streams.
4. Submit in writing to ENGINEER name of the transportation company or companies which CONTRACTOR proposes to utilize to transport Contaminated Materials from the Project. For each transporter identified, include the following information:
- a Name and address of all Contaminated Material transporters to be used to complete Project.
  - b State and Federal Transporter Identification Number and expiration date, if applicable.
  - c Proof of permit, license, or authorization to transport Contaminated Materials in all affected states.

B. Project Submittal Requirements:

- 1. Upon receipt of final approval from treatment/disposal facility to accept Contaminated Materials, forward copy of said approval to ENGINEER.
- 2. Within ten (10) working days after the off-site transportation of Contaminated Materials, submit to ENGINEER copies of all paperwork related to transportation of Contaminated Materials. Such paperwork may include, but not be limited to receipts, weight tickets, and disposal certificates.
  - a Provide certified tare and gross weight slips for each load received at the designated treatment/disposal facility which shall be attached to copy of related manifest or bill of lading.
- 3. Submit to ENGINEER, prior to receiving progress payment, documentation certifying that all materials were transported to, accepted, and disposed of, at the selected treatment/disposal facility. The documentation shall include the following, as a minimum.

- a Documentation shall be provided for each load from the site to the disposal facility, including all manifests and any other transfer documentation as applicable.
- b All documentation for each load shall be tracked by the original manifest or bill of lading document number assigned at the Project Site at time of signature by authorized ENGINEER.

#### 1.4 REGULATORY REQUIREMENTS

- A. CONTRACTOR shall obtain all Federal, State and local permits, approvals, or authorizations required for the transport and disposal of Contaminated Materials. CONTRACTOR shall adhere to all requirements of such permits, approvals, or authorizations.

### **PART 2 - MATERIALS**

#### 2.1 GENERAL

- A. All CONTRACTOR personnel shall wear personal protective equipment and protective clothing consistent with the levels of protection for this Work as indicated in the Site Health and Safety Plan (SSHP).
- B. CONTRACTOR shall select treatment/disposal facilities to receive Contaminated Materials from the Project which are established, fully operational, and in full compliance with all applicable Federal, State, and local regulations.

### **PART 3 - EXECUTION**

#### 3.1 GENERAL

- A. OWNER will be Generator and will sign or will designate an agent to sign on their behalf, Manifests or Shipping Papers as required with the exception of waste identified in Article 3.3.
- B. All Contaminated Materials shall be removed from the Project Site and legally disposed of by CONTRACTOR.

#### 3.2 CHARACTERIZATION FOR DISPOSAL-CONTAMINATED MATERIALS

- A. All characterization sampling and analysis for disposal shall be conducted by the CONTRACTOR, with supervision from the ENGINEER, where indicated.
- B. Waste Classifications

1. Waste Classification Sampling: When CONTRACTOR requires sampling for disposal of Contaminated Material, notify ENGINEER accordingly at least 48 hours in advance. Indicate the type of waste to be sampled, and the name of the CONTRACTOR'S selected treatment/disposal facility slated to receive such Contaminated Materials. No claim for delay will be considered based upon CONTRACTOR failing to notify ENGINEER of required sampling, or failing to provide accurate treatment/disposal facility information.
- C. ENGINEER will collect samples of Contaminated Material to perform testing based upon CONTRACTOR'S request. Such samples may be collected from within proposed Excavation Areas, or following deposition of Contaminated Material in the designated temporary storage container/area.
1. CONTRACTOR is hereby notified that laboratory turnaround time for testing of disposal characterization samples may be up to ten (10) working days from date of collection. Upon receipt of analytical data, ENGINEER will make available to CONTRACTOR results of same. CONTRACTOR shall use data for coordination with CONTRACTOR'S treatment/disposal facility for making all required arrangements to dispose of Contaminated Soil represented by such data. No claim for delay will be considered based upon CONTRACTOR failing to accommodate the laboratory turnaround time as defined herein.

### 3.3 CHARACTERIZATION FOR DISPOSAL-OTHER CONSIDERATIONS

#### A. Decontamination Wastes

1. CONTRACTOR shall be solely responsible for collection, analysis and interpretation of analytical characterization samples as required for the proper disposal of all Contaminated Materials related to the decontamination of CONTRACTOR'S tools or equipment.

#### B. Characterization sample collection and analysis shall be conducted in accordance with all applicable rules, laws and regulations and required protocols.

1. The analysis of characterization samples shall occur at a laboratory facility licensed in CT and the state where the waste represented by such sample will be disposed and shall meet treatment/disposal facility requirements. Laboratory facilities performing analytical testing for the project are subject to evaluation and approval by OWNER of their technical and management capabilities, regulatory compliance records, insurance coverage, and other business factors.
2. Submit to ENGINEER copies of all waste characterization sampling, clearly identifying the date of collection, name and affiliation of person collecting sample, source of the sample, proposed treatment/ disposal facility, and a description of the facility acceptance criteria. Such submittals shall occur at least 48 hours prior to waste being transported off the site and are subject to ENGINEER approval prior to shipping/disposal.

3. CONTRACTOR shall be "Generator" for Contaminated Materials related to the decontamination of CONTRACTOR'S tools or equipment.

#### 3.4 DISPOSAL COORDINATION AND TRANSPORT

- A. CONTRACTOR shall be solely responsible for coordinating treatment/disposal facility approval, scheduling, loading, transport, and ultimate disposal of Contaminated Materials at treatment/disposal facility. No claim for delay will be considered based upon CONTRACTOR'S facility failing to meet CONTRACTOR'S production schedule. No payments will be made for rejected loads.
- B. For treatment/disposal facilities located in the state of Massachusetts receiving Contaminated Material from the Project, CONTRACTOR shall provide certification as required by a Massachusetts Licensed Site Professional (LSP). Professional certifications or verifications which may be required by other states to support waste disposal shall be the sole responsibility of CONTRACTOR.
- C. The CONTRACTOR shall be responsible for screening drivers of waste transportation vehicles prior to use and prior to departure from the sites. Vehicle drivers with a history or record of unsafe vehicle operation shall be banned by the CONTRACTOR from the project.
- D. The CONTRACTOR shall continuously monitor the regulatory compliance status of all waste transporters and disposal facilities used and proposed for use. If, at any time, the CONTRACTOR becomes aware of a potential or actual change in the regulatory compliance status of any waste transporters or disposal facilities used or proposed for use, the CONTRACTOR shall immediately notify the ENGINEER or such potential or actual change and, in consultation with the ENGINEER and OWNER, make arrangements to divert waste to alternate approved transporters and disposal facilities.

#### 3.5 MANIFESTS AND SHIPPING PAPERS

- A. OWNER will be designated "Generator" and will sign all Manifests and Shipping Papers. Manifests and Shipping Papers shall be prepared by CONTRACTOR twenty four (24) hours in advance of shipment of Contaminated Materials. Authorized ENGINEER will sign as "Generator" as each load of Contaminated Material leaves the Project Site. CONTRACTOR shall forward appropriate original copies of Manifests or Bills of Lading to ENGINEER on the same day the Contaminated Materials leave the Project Site.

#### 3.6 TRANSPORT OF CONTAMINATED MATERIAL

- A. Transport contaminated materials off-site after all treatment/disposal facility documentation has been completed and the material accepted by said facility.
- B. Transport contaminated materials from the site to treatment/disposal facility in accordance with all United States Department of Transportation (DOT), USEPA, Connecticut regulations and other regulations of all affected states.

- C. The Hauler(s) shall be licensed in all states affected by transport.
- D. Provide to ENGINEER copies of all weight slips, both tare and gross, for every load weighed and disposed of at the accepted disposal facility. The slips shall be tracked by the original manifest document number that was assigned by ENGINEER at the site. OWNER shall only make progress payments upon receipt of these weight slips.
- E. Soil located in the Temporary Stockpile Area (e.g., petroleum-impacted soil) shall be removed from the Project Site in accordance with the requirements of this section in accordance with scheduling established by ENGINEER.
- F. Provide to ENGINEER copies of all certificates of disposal from waste disposal facilities.

END OF SECTION

**SECTION 03 61 00**  
**NON-SHRINK STRUCTURAL GROUT**

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**PART 1 - GENERAL**

**1.1 SECTION INCLUDES**

- A. Non-shrink, high precision, extended flow, cement based grouting material.

**1.2 RELATED SECTIONS**

**1.3 REFERENCES**

- A. American Society of Testing Materials (ASTM):
  - 1. ASTM C 1090 Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic Cement Grout
  - 2. ASTM C 1107 Standard Specification for Packaged Hydraulic-Cement Grout
- B. Corps of Engineers (COE):
  - 1. COE CRD C 621 Standard Specification for Packaged Hydraulic-Cement Grout

**1.4 SUBMITTALS**

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.

**1.5 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
- B. Installer Qualifications: Minimum 2 year experience installing similar products.
- C. System Performance Requirements:
  - 1. Passes ASTM C 1107, Grade B or Grade C, when tested at temperature placement minimums and maximums of 45 to 100 degree F.
  - 2. Grout shall be tested at maximum water (fluid consistency) allowed by the manufacturer and remain fluid at temperature range minimums and maximums for 60 minutes after slight agitation.
  - 3. Minimum 28 day compressive strength at the above fluid consistency shall be 9,000 psi.
  - 4. Bleed water appearing on the top of the grout surface after one hour at temperature minimum and maximums: No collectable water.

**1.6 PRE-INSTALLATION MEETINGS**

- A. Convene minimum two weeks prior to starting work of this section.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver Materials to project in Manufacturer's original, unopened packaging, with labels clearly identifying product name, Manufacturer, and expiration date.
- B. Store grout in a cool, dry place, out of the sun.

#### 1.8 PROJECT CONDITIONS:

- A. Follow Manufacturer's instructions. Refer to ACI 305 "Hot Weather Concreting" and ACI 306 " Cold Weather Concreting".

### **PART 2 PRODUCTS**

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: L&M Construction Chemicals, which is located at: 1 LATICRETE Park N.; Bethany, CT 06524-3423; Toll Free Tel: 800-362-3331; Tel: 402-453-6600; Email:[request info \(info@lmcc.com\)](mailto:request info (info@lmcc.com)); Web:[www.laticrete.com/lmcc](http://www.laticrete.com/lmcc)
- B. Substitutions: As approved by the ENGINEER.

#### 2.2 MATERIALS

- A. CRYSTEX, stable flow, high strength, and cement based precision non-shrink grout.
- B. PREMIER, "Quick Trim", high strength, cement based, precision non-shrink grout.

### **PART 3 EXECUTION**

#### 3.1 EXAMINATION

- A. Verify by examination that all concrete substrate and plate surfaces are acceptable for grout.
- B. Do not begin installation until substrates have been properly prepared.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### 3.2 PREPARATION

- A. Mechanically remove all unsound concrete. Remove cement paste and laitance to expose sound aggregate.
- B. Clean surfaces of dirt, dust and debris.
- C. Maintain substrate in a saturated condition for 24 hours prior to grouting. Surface shall be saturated, surface dry (SSD) at time of grout installation.

#### 3.3 MIXING

- A. Comply with Manufacturer's recommendations for mixing procedures.

#### 3.4 INSTALLATION

- A. Place grout mixture into prepared areas from one side to the other, rapidly and continuously, to reduce air entrapment. Avoid placing grout from opposite sides.
- B. Level the grout with the surrounding concrete to match grades.
- C. Broom finish to a rough surface to match surrounding previously scarified concrete.

END OF SECTION

## **APPENDIX B**

### **TRC FIGURE 1 – AOC-1 Station B Concrete Removal and Sample Locations (10/15/2018)**



**APPENDIX C**  
**PHOTOGRAPHS**

# Appendix C

## Station B – PCB Concrete Removal Photograph Log

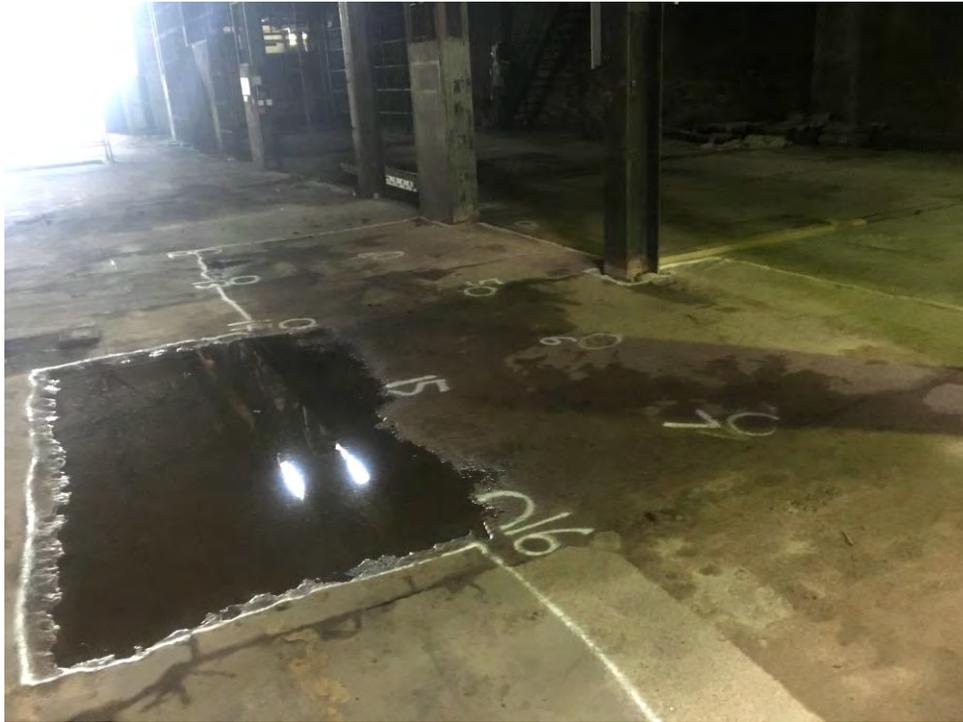


Photo 1: Post-Remediation – West End of West Area Looking West.



Photo 2: Post-Remediation West Area looking Northeast.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	TRC
263951	Paul Cyr & Matt Blumstein	1 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 3: Post-Remediation West End looking North.



Photo 4: Post-Remediation Middle of West Area looking North.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	2 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 5: Post-Remediation – Easterly end of West Area looking North.



Photo 6: Post-Remediation – Easterly end of West Area looking West.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	3 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 7: Post-Remediation – Easterly end of West Area looking North.



Photo 8: Post-Remediation – Easterly end of West Area looking West.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	4 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 9: Post-Remediation – Center Area looking East.



Photo 10: Post-Remediation - Center Area at former grate and berm looking East.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	5 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 11: Post-Remediation – Center Area at former grate and berm looking West.



Photo 12: Post-Remediation – Center Area at former grate and berm looking North.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	6 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 13: Post Remediation – Center Area Easterly end looking North.



Photo 14: Post-Remediation – Center Area Easterly Area looking North.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	7 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 15: Post-Remediation – East Area looking North.



Photo 16: Post-Remediation – East Area looking South.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	8 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 17: Post-Remediation – Easterly end of East Area looking East.



Photo 18: Post-Remediation - Southerly end of East Area looking South.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	9 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 19: Post-Remediation – East Area looking West.



Photo 20: Post-Remediation – East Area looking Northwest.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	10 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

# Appendix C

## Station B – PCB Concrete Removal Photograph Log



Photo 21: Scaffolding being erected on poly-sheeting .



Photo 22: Close-up of typical poly-sheeting around scaffolding with wood block anchor.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	11 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

**Appendix C**  
**Station B – PCB Concrete Removal Photograph Log**



Photo 23: Typical poly-sheeting protection inside containment covering scaffolding (West Area) following scabbling.



Photo 24: Typical poly-sheeting protection inside containment covering scaffolding (West Area) following scabbling.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	12 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 25: Typical poly-sheeting protection inside containment covering scaffolding (West Area) following scabbling and surface vacuuming and wash.



Photo 26: HEPA Vacuum for floor scabblers dust collection.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	13 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 27: Floor Scabbler.



Photo 28: Underside of scabbler following decontamination and wipe sampling.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	14 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

**Appendix C**  
**Station B – PCB Concrete Removal Photograph Log**



Photo 29: Side of scabbler following decontamination and wipe sampling.

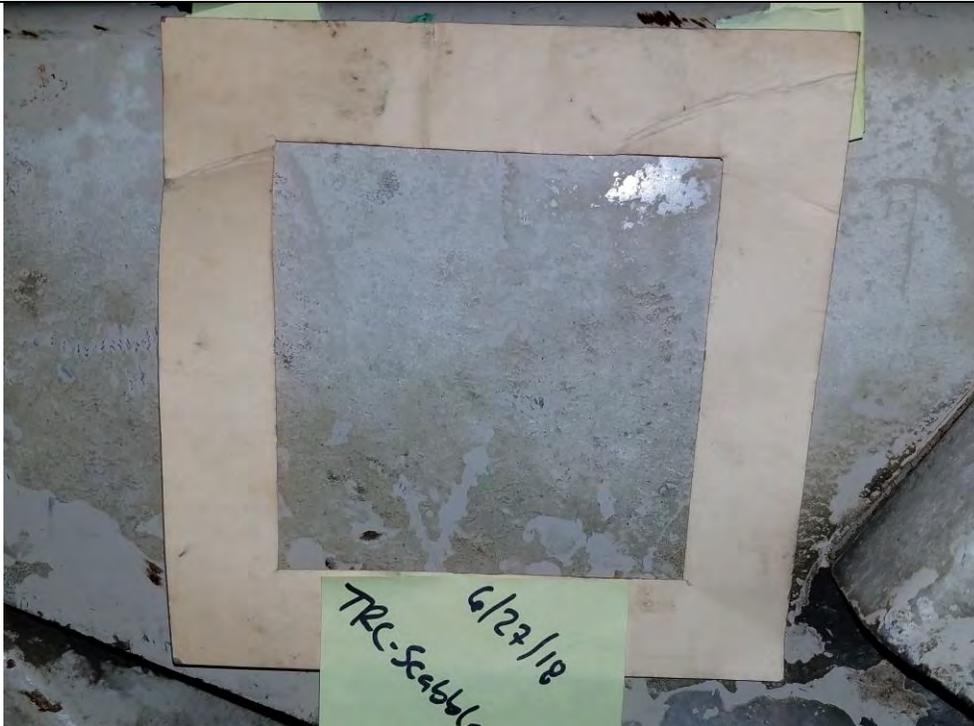


Photo 30: Wipe sample template on side of scabbler.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
263951	Paul Cyr & Matt Blumstein	15 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

## Appendix C

### Station B – PCB Concrete Removal Photograph Log



Photo 31: Typical wipe sample.



Photo 32: Water drum storage and scabblers on poly-sheeting.

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263951	Paul Cyr & Matt Blumstein	16 of 16	United Illuminating Co.	English Station – Station B 510 Grand Avenue New, Haven, CT	

**APPENDIX D**

**LABORATORY REPORTS**

Client: Mr. Carl Stopper  
TRC Environmental Consultants  
21 Griffin Rd., North  
Windsor, CT 06095

# Analytical Report

## CET# 8060725R



Report Date: June 27, 2018  
Project: Station B Scabbling, New Haven

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Laboratory Certificate: 68-02927

**SAMPLE SUMMARY**

The sample(s) were received at 6.3°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
TRC-WOO1 0.5in	8060725-01	Solid	6/21/2018 7:50	06/21/2018
TRC-WOO2 0.5in	8060725-02	Solid	6/21/2018 8:00	06/21/2018
TRC-WOO3 0.5in	8060725-03	Solid	6/21/2018 8:10	06/21/2018
TRC-COO4 0.5in	8060725-04	Solid	6/21/2018 8:26	06/21/2018
TRC-COO5 0.5in	8060725-05	Solid	6/21/2018 8:33	06/21/2018
TRC-COO6 0.5in	8060725-06	Solid	6/21/2018 8:38	06/21/2018
TRC-COO7 0.5in	8060725-07	Solid	6/21/2018 8:43	06/21/2018
TRC-COO8 0.5in	8060725-08	Solid	6/21/2018 8:45	06/21/2018
TRC-COO9 0.5in	8060725-09	Solid	6/21/2018 8:50	06/21/2018
TRC-CO10 0.5in	8060725-10	Solid	6/21/2018 8:55	06/21/2018
TRC-CO11 0.5in	8060725-11	Solid	6/21/2018 9:00	06/21/2018
TRC-CO12 0.5in	8060725-12	Solid	6/21/2018 9:02	06/21/2018
TRC-CO13 0.5in	8060725-13	Solid	6/21/2018 9:05	06/21/2018
TRC-CO14 0.5in	8060725-14	Solid	6/21/2018 9:07	06/21/2018
TRC-CO15 0.5in	8060725-15	Solid	6/21/2018 9:10	06/21/2018
TRC-CO16 0.5in	8060725-16	Solid	6/21/2018 9:12	06/21/2018
TRC-CO17 0.5in	8060725-17	Solid	6/21/2018 9:15	06/21/2018
TRC-CO18 0.5in	8060725-18	Solid	6/21/2018 9:17	06/21/2018
TRC-C666 0.5in	8060725-19	Solid	6/21/2018 9:20	06/21/2018

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-WOO1 0.5in**

**Lab ID: 8060725-01**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1260	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:15	
<i>Surrogate: TCMX [1C]</i>	<i>91.2 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:15</i>	
<i>Surrogate: TCMX [2C]</i>	<i>88.0 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:15</i>	
<i>Surrogate: DCB [1C]</i>	<i>87.5 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:15</i>	
<i>Surrogate: DCB [2C]</i>	<i>82.0 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:15</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-WOO2 0.5in**

**Lab ID: 8060725-02**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1260	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:34	
<i>Surrogate: TCMX [1C]</i>	<i>87.6 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:34</i>	
<i>Surrogate: TCMX [2C]</i>	<i>97.1 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:34</i>	
<i>Surrogate: DCB [1C]</i>	<i>88.5 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:34</i>	
<i>Surrogate: DCB [2C]</i>	<i>87.4 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:34</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-WOO3 0.5in**

**Lab ID: 8060725-03**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1260	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 13:53	
<i>Surrogate: TCMX [1C]</i>	<i>103 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:53</i>	
<i>Surrogate: TCMX [2C]</i>	<i>86.8 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:53</i>	
<i>Surrogate: DCB [1C]</i>	<i>87.8 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:53</i>	
<i>Surrogate: DCB [2C]</i>	<i>83.5 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 13:53</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO04 0.5in**

**Lab ID: 8060725-04**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
<b>PCB-1254</b>	<b>0.71</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
<b>PCB-1260</b>	<b>1.0</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:12	
<i>Surrogate: TCMX [1C]</i>	<i>94.6 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:12</i>	
<i>Surrogate: TCMX [2C]</i>	<i>86.8 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:12</i>	
<i>Surrogate: DCB [1C]</i>	<i>90.0 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:12</i>	
<i>Surrogate: DCB [2C]</i>	<i>86.6 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:12</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO05 0.5in**

**Lab ID: 8060725-05**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
<b>PCB-1254</b>	<b>0.93</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
<b>PCB-1260</b>	<b>1.1</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:32	
<i>Surrogate: TCMX [1C]</i>	<i>147 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:32</i>	
<i>Surrogate: TCMX [2C]</i>	<i>100 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:32</i>	
<i>Surrogate: DCB [1C]</i>	<i>112 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:32</i>	
<i>Surrogate: DCB [2C]</i>	<i>105 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 14:32</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO06 0.5in**

**Lab ID: 8060725-06**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
<b>PCB-1254</b>	<b>0.75</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
<b>PCB-1260</b>	<b>0.72</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 14:51	
<i>Surrogate: TCMX [1C]</i>	<i>111 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 14:51</i>	
<i>Surrogate: TCMX [2C]</i>	<i>83.8 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 14:51</i>	
<i>Surrogate: DCB [1C]</i>	<i>84.7 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 14:51</i>	
<i>Surrogate: DCB [2C]</i>	<i>81.1 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 14:51</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO07 0.5in**

**Lab ID: 8060725-07**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
<b>PCB-1260</b>	<b>0.48</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:10	
<i>Surrogate: TCMX [1C]</i>	<i>92.9 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:10</i>	
<i>Surrogate: TCMX [2C]</i>	<i>76.5 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:10</i>	
<i>Surrogate: DCB [1C]</i>	<i>104 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:10</i>	
<i>Surrogate: DCB [2C]</i>	<i>92.6 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:10</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO08 0.5in**

**Lab ID: 8060725-08**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
<b>PCB-1260</b>	<b>1.1</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:29	
<i>Surrogate: TCMX [1C]</i>	<i>99.9 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:29</i>	
<i>Surrogate: TCMX [2C]</i>	<i>89.6 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:29</i>	
<i>Surrogate: DCB [1C]</i>	<i>101 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:29</i>	
<i>Surrogate: DCB [2C]</i>	<i>89.9 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 15:29</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO09 0.5in**

**Lab ID: 8060725-09**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
<b>PCB-1260</b>	<b>1.1</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 15:48	
<i>Surrogate: TCMX [1C]</i>	<i>112 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 15:48</i>	
<i>Surrogate: TCMX [2C]</i>	<i>85.4 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 15:48</i>	
<i>Surrogate: DCB [1C]</i>	<i>98.3 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 15:48</i>	
<i>Surrogate: DCB [2C]</i>	<i>94.6 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 15:48</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO10 0.5in**

**Lab ID: 8060725-10**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
<b>PCB-1260</b>	<b>1.2</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:08	
<i>Surrogate: TCMX [1C]</i>	<i>108 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:08</i>	
<i>Surrogate: TCMX [2C]</i>	<i>96.9 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:08</i>	
<i>Surrogate: DCB [1C]</i>	<i>104 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:08</i>	
<i>Surrogate: DCB [2C]</i>	<i>97.4 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:08</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO11 0.5in**

**Lab ID: 8060725-11**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
<b>PCB-1260</b>	<b>0.38</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:27	
<i>Surrogate: TCMX [1C]</i>	<i>86.7 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:27</i>	
<i>Surrogate: TCMX [2C]</i>	<i>82.3 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:27</i>	
<i>Surrogate: DCB [1C]</i>	<i>84.8 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:27</i>	
<i>Surrogate: DCB [2C]</i>	<i>80.7 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:27</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO12 0.5in**

**Lab ID: 8060725-12**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
<b>PCB-1260</b>	<b>0.77</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 16:46	
<i>Surrogate: TCMX [1C]</i>	<i>90.2 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:46</i>	
<i>Surrogate: TCMX [2C]</i>	<i>82.0 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:46</i>	
<i>Surrogate: DCB [1C]</i>	<i>92.0 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:46</i>	
<i>Surrogate: DCB [2C]</i>	<i>85.1 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 16:46</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO13 0.5in**

**Lab ID: 8060725-13**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1260	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:05	
<i>Surrogate: TCMX [1C]</i>	<i>109 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:05</i>	
<i>Surrogate: TCMX [2C]</i>	<i>99.4 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:05</i>	
<i>Surrogate: DCB [1C]</i>	<i>98.2 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:05</i>	
<i>Surrogate: DCB [2C]</i>	<i>94.4 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:05</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO14 0.5in**

**Lab ID: 8060725-14**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
<b>PCB-1260</b>	<b>1.0</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:24	
<i>Surrogate: TCMX [1C]</i>	<i>111 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 17:24</i>	
<i>Surrogate: TCMX [2C]</i>	<i>94.9 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 17:24</i>	
<i>Surrogate: DCB [1C]</i>	<i>104 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 17:24</i>	
<i>Surrogate: DCB [2C]</i>	<i>145 %</i>		<i>30 - 150</i>		B8F2160	06/21/2018	<i>06/22/2018 17:24</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO15 0.5in**

**Lab ID: 8060725-15**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
<b>PCB-1254</b>	<b>0.95</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
<b>PCB-1260</b>	<b>1.4</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 17:43	
<i>Surrogate: TCMX [1C]</i>	<i>110 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:43</i>	
<i>Surrogate: TCMX [2C]</i>	<i>95.9 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:43</i>	
<i>Surrogate: DCB [1C]</i>	<i>113 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:43</i>	
<i>Surrogate: DCB [2C]</i>	<i>98.5 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 17:43</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO16 0.5in**

**Lab ID: 8060725-16**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1260	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:02	
<i>Surrogate: TCMX [1C]</i>	<i>119 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:02</i>	
<i>Surrogate: TCMX [2C]</i>	<i>119 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:02</i>	
<i>Surrogate: DCB [1C]</i>	<i>105 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:02</i>	
<i>Surrogate: DCB [2C]</i>	<i>93.4 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:02</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO17 0.5in**

**Lab ID: 8060725-17**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1260	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:22	
<i>Surrogate: TCMX [1C]</i>	<i>99.2 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:22</i>	
<i>Surrogate: TCMX [2C]</i>	<i>96.1 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:22</i>	
<i>Surrogate: DCB [1C]</i>	<i>88.9 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:22</i>	
<i>Surrogate: DCB [2C]</i>	<i>81.1 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:22</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**Client Sample ID TRC-CO18 0.5in**

**Lab ID: 8060725-18**

**PCBs by Soxhlet**

**Analyst: JTS**

**Method: EPA 8082A**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1260	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 18:41	
<i>Surrogate: TCMX [1C]</i>	<i>88.6 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:41</i>	
<i>Surrogate: TCMX [2C]</i>	<i>82.5 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:41</i>	
<i>Surrogate: DCB [1C]</i>	<i>93.5 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:41</i>	
<i>Surrogate: DCB [2C]</i>	<i>88.0 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 18:41</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

Client Sample ID TRC-C666 0.5in

Lab ID: 8060725-19

PCBs by Soxhlet

Analyst: JTS

Method: EPA 8082A

Matrix: Solid

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
PCB-1221	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
PCB-1232	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
PCB-1242	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
PCB-1248	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
PCB-1254	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
<b>PCB-1260</b>	<b>0.37</b>	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
PCB-1268	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
PCB-1262	ND	0.10	1	EPA 3540C	B8F2160	06/21/2018	06/22/2018 19:57	
<i>Surrogate: TCMX [1C]</i>	<i>110 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 19:57</i>	
<i>Surrogate: TCMX [2C]</i>	<i>108 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 19:57</i>	
<i>Surrogate: DCB [1C]</i>	<i>100 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 19:57</i>	
<i>Surrogate: DCB [2C]</i>	<i>92.0 %</i>	<i>30 - 150</i>			B8F2160	06/21/2018	<i>06/22/2018 19:57</i>	

CET # : 8060725

Project: Station B Scabbling, New Haven

**QUALITY CONTROL SECTION**

**Batch B8F2160 - EPA 8082A**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B8F2160-BLK1)</b>					Prepared: 6/21/2018 Analyzed: 6/22/2018				
PCB-1016	ND	0.10							
PCB-1221	ND	0.10							
PCB-1232	ND	0.10							
PCB-1242	ND	0.10							
PCB-1248	ND	0.10							
PCB-1254	ND	0.10							
PCB-1260	ND	0.10							
PCB-1268	ND	0.10							
PCB-1262	ND	0.10							
<i>Surrogate: TCMX [1C]</i>					90.9	30 - 150			
<i>Surrogate: TCMX [2C]</i>					88.8	30 - 150			
<i>Surrogate: DCB [1C]</i>					92.5	30 - 150			
<i>Surrogate: DCB [2C]</i>					85.7	30 - 150			
<b>LCS (B8F2160-BS1)</b>					Prepared: 6/21/2018 Analyzed: 6/22/2018				
PCB-1016	0.721	0.10	1.000		72.1	40 - 140			
PCB-1260	0.812	0.10	1.000		81.2	40 - 140			
<i>Surrogate: TCMX [1C]</i>					83.8	30 - 150			
<i>Surrogate: TCMX [2C]</i>					81.5	30 - 150			
<i>Surrogate: DCB [1C]</i>					95.5	30 - 150			
<i>Surrogate: DCB [2C]</i>					87.8	30 - 150			

CET # : 8060725

Project: Station B Scabbling, New Haven

## CASE NARRATIVE

Revision: Original report dated 6/25/2018; client sample ID units revised from 0.5 ft to 0.5in per client for samples 8060725-01 through -19.

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
email: cet1@cetlabs.com

## Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

### Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



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

**Laboratory Name:** Complete Environmental Testing, Inc.

**Client:** TRC Environmental Consultants

**Project Location:** Station B Scabbling, New Haven

**Project Number:**

**Laboratory Sample ID(s):**

8060725-01 thru 8060725-19

**Sample Date(s):**

06/21/2018

**List RCP Methods Used:**

EPA 8082A

**CET #:** 8060725

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and 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"/> N/A
<b>2</b>	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
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5a</b>	a) Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5b</b>	b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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
<b>7</b>	Are project specific matrix spikes and laboratory duplicates included with this 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:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 06/25/2018

**Name of Laboratory:** Complete Environmental Testing, Inc.

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

## RCP Case Narrative

3- Samples were received at 6.3 degrees C with evidence of cooling.

7- Project specific QC was not requested by the client.

### QC Batch/Sequence Report

<b>Batch</b>	<b>Sequence</b>	<b>CET ID</b>	<b>Sample ID</b>	<b>Specific Method</b>	<b>Matrix</b>	<b>Collection Date</b>
B8F2160	S8F2509	8060725-01	TRC-WOO1 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-02	TRC-WOO2 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-03	TRC-WOO3 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-04	TRC-COO4 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-05	TRC-COO5 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-06	TRC-COO6 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-07	TRC-COO7 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-08	TRC-COO8 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-09	TRC-COO9 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-10	TRC-CO10 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-11	TRC-CO11 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-12	TRC-CO12 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-13	TRC-CO13 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-14	TRC-CO14 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-15	TRC-CO15 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-16	TRC-CO16 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-17	TRC-CO17 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-18	TRC-CO18 0.5in	EPA 8082A	Solid	06/21/2018
B8F2160	S8F2509	8060725-19	TRC-C666 0.5in	EPA 8082A	Solid	06/21/2018

8060725



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

80 Lupes Drive  
Stratford, CT 06615  
Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet1@celtabs.com  
Bottle Request e-mail: bottleorders@celtabs.com

Sample ID/Sample Depths  
(include Units for any sample depths provided)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix A-Air S-Soil W-Water DW-Drinking Water C-Cassette	Turnaround Time ** (check one)					Metals	TOTAL # OF CONT.
			Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)		
TRC - W004 (0.5)	6/21/18/0750	Wood	<input checked="" type="checkbox"/>					1	
TRC - W002 (0.5)	6/21/18/0800	Wood						1	
TRC - W003 (0.5)	6/21/18/0810	Wood						1	
TRC - C004 (0.5)	6/21/18/0826	Concrete						1	
TRC - C005 (0.5)	6/21/18/0833							1	
TRC - C006 (0.5)	6/21/18/0838							1	
TRC - C007 (0.5)	6/21/18/0843							1	
TRC - C008 (0.5)	6/21/18/0845							1	
TRC - C009 (0.5)	6/21/18/0850							1	
TRC - C010 (0.5)	6/21/18/0855							1	

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

Soil VOCs Only (M-MeOH B-Bisulfate Sodium W-Water F-Empty E-Encore)

RELINQUISHED BY: Matt Blomstein DATE/TIME: 06/21/18 RECEIVED BY: MEADY DATE/TIME: 06/21/18 15:25

RELINQUISHED BY: DATE/TIME RECEIVED BY:

Client / Reporting Information

Company Name: TRC

Address: 21 Griffin Rd N.

City: Windsor State: CT Zip: 06095

Report To: Carl Stopper E-mail: CStopper@fresolutions.com

Phone #: 860-298-9692 Fax #: \_\_\_\_\_

8260 CT List	
8260 Aromatics	
8260 Halogens	
CT ETPH	
8270 CT List	
8270 PNAs	
PCBs <input checked="" type="checkbox"/> SOX <input type="checkbox"/> ASE	
Pesticides	
8 RCRA	
13 Priority Poll	
15 CT DEP	
Total	
SPLP	
TCLP	
Dissolved	
Field Filtered	
Lab to Filter	

NOTES: Invoice to Shawn Crosbie (UIL)  
Shawn.crosbie@uinet.com

Project Information

Project: Station B Scabbling PO #: \_\_\_\_\_

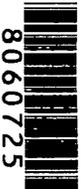
Location: New Haven, CT Project #: \_\_\_\_\_

CET Quote # \_\_\_\_\_ Collector(s): Matt Blomstein

QA/QC  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DQAW \*

Temp Upon Receipt: 6.3 °C Evidence of Cooling:  Y  N PAGE 1 OF 2

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 10/16



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

80 Lupes Drive  
Stratford, CT 06615  
Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet1@cetlabs.com  
Bottle Request e-mail: bottleorders@cetlabs.com

### Sample ID/Sample Depths

(Include Units for any sample depths provided)

Sample ID/Sample Depths	Collection Date/Time	Matrix A-Air S-Soil W-Water DW-Drinking Water C-Cassette	Turnaround Time ** (check one)			
			Same Day *	Next Day *	Two Day *	Three Day *
TRC - C011 (0.5)	6/21/18/0900	Conc	X			
TRC - C012 (0.5)	6/21/18/0902					
TRC - C013 (0.5)	6/21/18/0905					
TRC - C014 (0.5)	6/21/18/0907					
TRC - C015 (0.5)	6/21/18/0910					
TRC - C016 (0.5)	6/21/18/0912					
TRC - C017 (0.5)	6/21/18/0915					
TRC - C018 (0.5)	6/21/18/0917					
TRC - C666 (0.5)	6/21/18/0920					

PRESERVATIVE (C=HCl, N=HNO<sub>3</sub>, S=H<sub>2</sub>SO<sub>4</sub>, Na=NaOH, C=Cool, O=Other)

CONTAINER TYPE (P=Plastic, G=Glass, V=Vial, O=Other)

Soil VOCs Only (M=MeOH, B=Bisulfate, W=Water, F=Empty, E=Encore)

REINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME  
 REINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

REINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

### Client / Reporting Information

Company Name: TRC  
 Address: 21 Griffin Rd N  
 City: Windsor State: CT Zip: 06095

Report To: Carl Stopper  
 Phone #: 860-298-9692 Fax #: Email: CStopper@tresolutions.com

8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	SOX	ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Metals	Additional Analysis	TOTAL # OF CONT.	NOTE #
							X															

NOTES: Invoice to Shawn Crosbie (VTL)  
 Shawn.Crosbie@vlnet.com

### Project Information

Project: Station B Scabbling  
 Location: New Haven, CT  
 Project #: PO #:  
 Collector(s): Matt Blumstein

QA/QC:  Std  Site Specific (MS/MSD) \*  
 Date Report:  PDF  EDD - Specify Format  
 RSH Reporting Limits (check one):  GA  GB  SWP  
 Laboratory Certification Needed (check one):  CT  NY  RI  MA  
 Temp Upon Receipt: 61.3 °C Evidence of Cooling:  Y  N  
 PAGE 2 OF 2

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 10/16

July 10, 2018

Carl Stopper  
TRC Environmental Corporation - CT  
21 Griffin Road North  
Windsor, CT 06095

Project Location: 510 Grand Ave., New Haven, CT  
Client Job Number:  
Project Number: 263951.000013.000001  
Laboratory Work Order Number: 18G0194

Enclosed are results of analyses for samples received by the laboratory on July 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, flowing 'y' at the end.

Meghan E. Kelley  
Project Manager

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

TRC Environmental Corporation - CT  
 21 Griffin Road North  
 Windsor, CT 06095  
 ATTN: Carl Stopper

REPORT DATE: 7/10/2018

PURCHASE ORDER NUMBER: 4500453202-10

PROJECT NUMBER: 263951.000013.000001

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18G0194

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

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-C031 (1.25")	18G0194-01	Concrete		SW-846 8082A	
TRC-C032 (1.25")	18G0194-02	Concrete		SW-846 8082A	
TRC-C033 (0.5")	18G0194-03	Concrete		SW-846 8082A	
TRC-C034 (1.25")	18G0194-04	Concrete		SW-846 8082A	
TRC-C035 (1.5")	18G0194-05	Concrete		SW-846 8082A	
TRC-C036 (1.25")	18G0194-06	Concrete		SW-846 8082A	
TRC-C037 (0.5")	18G0194-07	Concrete		SW-846 8082A	
TRC-C039 (1.5")	18G0194-08	Concrete		SW-846 8082A	
TRC-C039 BWALL	18G0194-09	Concrete		SW-846 8082A	
TRC-040 BWALL	18G0194-10	Concrete		SW-846 8082A	
TRC-041 BWALL	18G0194-11	Concrete		SW-846 8082A	
TRC-042 BWALL	18G0194-12	Product/Solid		SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

18G0194-03[TRC-C033 (0.5")]

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  
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C031 (1.25")

Sampled: 7/5/2018 09:20

Sample ID: 18G0194-01

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:38	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.3	30-150					7/8/18 19:38	
Decachlorobiphenyl [2]		85.3	30-150					7/8/18 19:38	
Tetrachloro-m-xylene [1]		80.0	30-150					7/8/18 19:38	
Tetrachloro-m-xylene [2]		82.3	30-150					7/8/18 19:38	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C032 (1.25")

Sampled: 7/5/2018 09:22

Sample ID: 18G0194-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1221 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1232 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1242 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1248 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1254 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1260 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1262 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Aroclor-1268 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 19:51	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.1	30-150					7/8/18 19:51	
Decachlorobiphenyl [2]		100	30-150					7/8/18 19:51	
Tetrachloro-m-xylene [1]		87.8	30-150					7/8/18 19:51	
Tetrachloro-m-xylene [2]		90.7	30-150					7/8/18 19:51	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C033 (0.5")

Sampled: 7/5/2018 09:25

Sample ID: 18G0194-03

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1248 [2]	0.15	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1254 [2]	0.14	0.084	mg/Kg	1	P-01	SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:03	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	77.6		30-150				7/8/18 20:03		
Decachlorobiphenyl [2]	83.4		30-150				7/8/18 20:03		
Tetrachloro-m-xylene [1]	77.1		30-150				7/8/18 20:03		
Tetrachloro-m-xylene [2]	82.2		30-150				7/8/18 20:03		

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C034 (1.25")

Sampled: 7/5/2018 09:05

Sample ID: 18G0194-04

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:15	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		71.4	30-150					7/8/18 20:15	
Decachlorobiphenyl [2]		76.8	30-150					7/8/18 20:15	
Tetrachloro-m-xylene [1]		72.3	30-150					7/8/18 20:15	
Tetrachloro-m-xylene [2]		75.6	30-150					7/8/18 20:15	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C035 (1.5")

Sampled: 7/5/2018 09:10

Sample ID: 18G0194-05

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:28	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.4	30-150					7/8/18 20:28	
Decachlorobiphenyl [2]		86.6	30-150					7/8/18 20:28	
Tetrachloro-m-xylene [1]		80.5	30-150					7/8/18 20:28	
Tetrachloro-m-xylene [2]		84.2	30-150					7/8/18 20:28	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C036 (1.25")

Sampled: 7/5/2018 09:15

Sample ID: 18G0194-06

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1221 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1232 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1242 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1248 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1254 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1260 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1262 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Aroclor-1268 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:40	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.2	30-150					7/8/18 20:40	
Decachlorobiphenyl [2]		78.9	30-150					7/8/18 20:40	
Tetrachloro-m-xylene [1]		71.7	30-150					7/8/18 20:40	
Tetrachloro-m-xylene [2]		74.6	30-150					7/8/18 20:40	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C037 (0.5")

Sampled: 7/5/2018 09:17

Sample ID: 18G0194-07

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1221 [1]	ND	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1232 [1]	ND	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1242 [1]	ND	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1248 [1]	ND	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1254 [2]	0.15	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1260 [2]	0.16	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1262 [1]	ND	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Aroclor-1268 [1]	ND	0.076	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 20:53	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.7	30-150					7/8/18 20:53	
Decachlorobiphenyl [2]		88.9	30-150					7/8/18 20:53	
Tetrachloro-m-xylene [1]		81.7	30-150					7/8/18 20:53	
Tetrachloro-m-xylene [2]		85.0	30-150					7/8/18 20:53	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C039 (1.5")

Sampled: 7/5/2018 09:27

Sample ID: 18G0194-08

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:05	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.1	30-150					7/8/18 21:05	
Decachlorobiphenyl [2]		97.3	30-150					7/8/18 21:05	
Tetrachloro-m-xylene [1]		90.1	30-150					7/8/18 21:05	
Tetrachloro-m-xylene [2]		94.7	30-150					7/8/18 21:05	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-C039 BWALL

Sampled: 7/5/2018 09:40

Sample ID: 18G0194-09

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1248 [2]	0.12	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1254 [2]	0.18	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1260 [1]	0.097	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:17	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	86.4		30-150				7/8/18 21:17		
Decachlorobiphenyl [2]	92.6		30-150				7/8/18 21:17		
Tetrachloro-m-xylene [1]	84.4		30-150				7/8/18 21:17		
Tetrachloro-m-xylene [2]	87.5		30-150				7/8/18 21:17		

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-040 BWALL

Sampled: 7/5/2018 09:42

Sample ID: 18G0194-10

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1254 [2]	0.17	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:30	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.4	30-150					7/8/18 21:30	
Decachlorobiphenyl [2]		89.2	30-150					7/8/18 21:30	
Tetrachloro-m-xylene [1]		81.2	30-150					7/8/18 21:30	
Tetrachloro-m-xylene [2]		83.9	30-150					7/8/18 21:30	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-041 BWALL

Sampled: 7/5/2018 09:45

Sample ID: 18G0194-11

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1248 [2]	0.15	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1254 [2]	0.25	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1260 [2]	0.21	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/6/18	7/8/18 21:42	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	75.2		30-150				7/8/18 21:42		
Decachlorobiphenyl [2]	80.7		30-150				7/8/18 21:42		
Tetrachloro-m-xylene [1]	70.0		30-150				7/8/18 21:42		
Tetrachloro-m-xylene [2]	71.8		30-150				7/8/18 21:42		

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0194

Date Received: 7/6/2018

Field Sample #: TRC-042 BWALL

Sampled: 7/6/2018 09:47

Sample ID: 18G0194-12

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1248 [2]	0.17	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1254 [2]	0.26	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1260 [2]	0.13	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	7/9/18	7/10/18 12:13	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	90.3		30-150				7/10/18 12:13		
Decachlorobiphenyl [2]	95.2		30-150				7/10/18 12:13		
Tetrachloro-m-xylene [1]	83.7		30-150				7/10/18 12:13		
Tetrachloro-m-xylene [2]	86.2		30-150				7/10/18 12:13		

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

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

<b>Lab Number [Field ID]</b>	<b>Batch</b>	<b>Initial [g]</b>	<b>Final [mL]</b>	<b>Date</b>
18G0194-01 [TRC-C031 (1.25")]	B207332	2.12	10.0	07/06/18
18G0194-02 [TRC-C032 (1.25")]	B207332	2.52	10.0	07/06/18
18G0194-03 [TRC-C033 (0.5")]	B207332	2.39	10.0	07/06/18
18G0194-04 [TRC-C034 (1.25")]	B207332	2.48	10.0	07/06/18
18G0194-05 [TRC-C035 (1.5")]	B207332	2.47	10.0	07/06/18
18G0194-06 [TRC-C036 (1.25")]	B207332	2.73	10.0	07/06/18
18G0194-07 [TRC-C037 (0.5")]	B207332	2.63	10.0	07/06/18
18G0194-08 [TRC-C039 (1.5")]	B207332	2.42	10.0	07/06/18
18G0194-09 [TRC-C039 BWALL]	B207332	2.19	10.0	07/06/18
18G0194-10 [TRC-040 BWALL]	B207332	2.08	10.0	07/06/18
18G0194-11 [TRC-041 BWALL]	B207332	2.15	10.0	07/06/18

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

<b>Lab Number [Field ID]</b>	<b>Batch</b>	<b>Initial [g]</b>	<b>Final [mL]</b>	<b>Date</b>
18G0194-12 [TRC-042 BWALL]	B207466	2.04	10.0	07/09/18

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

**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B207332 - SW-846 3540C**

**Blank (B207332-BLK1)**

Prepared: 07/06/18 Analyzed: 07/08/18

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.683		mg/Kg	1.00		68.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.745		mg/Kg	1.00		74.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.733		mg/Kg	1.00		73.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.758		mg/Kg	1.00		75.8	30-150			

**LCS (B207332-BS1)**

Prepared: 07/06/18 Analyzed: 07/08/18

Aroclor-1016	0.79	0.10	mg/Kg	1.00		78.7	40-140			
Aroclor-1016 [2C]	0.82	0.10	mg/Kg	1.00		82.0	40-140			
Aroclor-1260	0.73	0.10	mg/Kg	1.00		72.6	40-140			
Aroclor-1260 [2C]	0.77	0.10	mg/Kg	1.00		77.5	40-140			
Surrogate: Decachlorobiphenyl	0.779		mg/Kg	1.00		77.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.841		mg/Kg	1.00		84.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.787		mg/Kg	1.00		78.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.810		mg/Kg	1.00		81.0	30-150			

**LCS Dup (B207332-BSD1)**

Prepared: 07/06/18 Analyzed: 07/08/18

Aroclor-1016	0.76	0.10	mg/Kg	1.00		76.4	40-140	2.97	30	
Aroclor-1016 [2C]	0.81	0.10	mg/Kg	1.00		80.9	40-140	1.43	30	
Aroclor-1260	0.72	0.10	mg/Kg	1.00		72.3	40-140	0.440	30	
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		77.6	40-140	0.173	30	
Surrogate: Decachlorobiphenyl	0.766		mg/Kg	1.00		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.818		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.752		mg/Kg	1.00		75.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.777		mg/Kg	1.00		77.7	30-150			

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

**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B207332 - SW-846 3540C</b>										
<b>Matrix Spike (B207332-MS1)</b>		<b>Source: 18G0194-01</b>			Prepared: 07/06/18 Analyzed: 07/08/18					
Aroclor-1016	0.74	0.089	mg/Kg	0.893	ND	82.7	40-140			
Aroclor-1016 [2C]	0.74	0.089	mg/Kg	0.893	ND	82.9	40-140			
Aroclor-1260	0.72	0.089	mg/Kg	0.893	ND	80.4	40-140			
Aroclor-1260 [2C]	0.78	0.089	mg/Kg	0.893	ND	87.0	40-140			
Surrogate: Decachlorobiphenyl	0.769		mg/Kg	0.893		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.822		mg/Kg	0.893		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.753		mg/Kg	0.893		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.784		mg/Kg	0.893		87.8	30-150			
<b>Matrix Spike Dup (B207332-MSD1)</b>		<b>Source: 18G0194-01</b>			Prepared: 07/06/18 Analyzed: 07/08/18					
Aroclor-1016	0.79	0.090	mg/Kg	0.897	ND	88.0	40-140	6.73	50	
Aroclor-1016 [2C]	0.78	0.090	mg/Kg	0.897	ND	87.4	40-140	5.76	50	
Aroclor-1260	0.74	0.090	mg/Kg	0.897	ND	82.6	40-140	3.09	50	
Aroclor-1260 [2C]	0.78	0.090	mg/Kg	0.897	ND	87.5	40-140	1.03	50	
Surrogate: Decachlorobiphenyl	0.793		mg/Kg	0.897		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.845		mg/Kg	0.897		94.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.772		mg/Kg	0.897		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.805		mg/Kg	0.897		89.7	30-150			
<b>Batch B207466 - SW-846 3540C</b>										
<b>Blank (B207466-BLK1)</b>		Prepared: 07/09/18 Analyzed: 07/10/18								
Aroclor-1016	ND	0.099	mg/Kg							
Aroclor-1016 [2C]	ND	0.099	mg/Kg							
Aroclor-1221	ND	0.099	mg/Kg							
Aroclor-1221 [2C]	ND	0.099	mg/Kg							
Aroclor-1232	ND	0.099	mg/Kg							
Aroclor-1232 [2C]	ND	0.099	mg/Kg							
Aroclor-1242	ND	0.099	mg/Kg							
Aroclor-1242 [2C]	ND	0.099	mg/Kg							
Aroclor-1248	ND	0.099	mg/Kg							
Aroclor-1248 [2C]	ND	0.099	mg/Kg							
Aroclor-1254	ND	0.099	mg/Kg							
Aroclor-1254 [2C]	ND	0.099	mg/Kg							
Aroclor-1260	ND	0.099	mg/Kg							
Aroclor-1260 [2C]	ND	0.099	mg/Kg							
Aroclor-1262	ND	0.099	mg/Kg							
Aroclor-1262 [2C]	ND	0.099	mg/Kg							
Aroclor-1268	ND	0.099	mg/Kg							
Aroclor-1268 [2C]	ND	0.099	mg/Kg							
Surrogate: Decachlorobiphenyl	0.691		mg/Kg	0.985		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.723		mg/Kg	0.985		73.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.673		mg/Kg	0.985		68.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.687		mg/Kg	0.985		69.8	30-150			

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

**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B207466 - SW-846 3540C**

**LCS (B207466-BS1)**

Prepared: 07/09/18 Analyzed: 07/10/18

Aroclor-1016	0.83	0.099	mg/Kg	0.990		83.8	40-140			
Aroclor-1016 [2C]	0.81	0.099	mg/Kg	0.990		81.7	40-140			
Aroclor-1260	0.82	0.099	mg/Kg	0.990		82.3	40-140			
Aroclor-1260 [2C]	0.85	0.099	mg/Kg	0.990		85.5	40-140			
Surrogate: Decachlorobiphenyl	0.855		mg/Kg	0.990		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.899		mg/Kg	0.990		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.809		mg/Kg	0.990		81.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.830		mg/Kg	0.990		83.8	30-150			

**LCS Dup (B207466-BSD1)**

Prepared: 07/09/18 Analyzed: 07/10/18

Aroclor-1016	0.82	0.097	mg/Kg	0.971		84.9	40-140	0.576	30	
Aroclor-1016 [2C]	0.83	0.097	mg/Kg	0.971		85.1	40-140	2.03	30	
Aroclor-1260	0.79	0.097	mg/Kg	0.971		81.2	40-140	3.33	30	
Aroclor-1260 [2C]	0.82	0.097	mg/Kg	0.971		84.5	40-140	3.19	30	
Surrogate: Decachlorobiphenyl	0.797		mg/Kg	0.971		82.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.836		mg/Kg	0.971		86.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.784		mg/Kg	0.971		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.813		mg/Kg	0.971		83.7	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**TRC-C033 (0.5")**

*SW-846 8082A*

Lab Sample ID: 18G0194-03 Date(s) Analyzed: 07/08/2018 07/08/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.15	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**TRC-C037 (0.5")**

*SW-846 8082A*

Lab Sample ID: 18G0194-07 Date(s) Analyzed: 07/08/2018 07/08/2018  
 Instrument ID (1): ECD 9 Instrument ID (2): ECD 9  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.15	22.2
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.16	6.5

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

**TRC-C039 BWALL**

Lab Sample ID: 18G0194-09 Date(s) Analyzed: 07/08/2018 07/08/2018  
 Instrument ID (1): ECD 9 Instrument ID (2): ECD 9  
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.12	8.7
Aroclor-1254	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.18	32.3
Aroclor-1260	1	0.000	0.000	0.000	0.097	
	2	0.000	0.000	0.000	0.096	1.0

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

**TRC-040 BWALL**

Lab Sample ID: 18G0194-10 Date(s) Analyzed: 07/08/2018 07/08/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.16	
	2	0.000	0.000	0.000	0.17	6.1

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**TRC-041 BWALL**

*SW-846 8082A*

Lab Sample ID: 18G0194-11 Date(s) Analyzed: 07/08/2018 07/08/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.15	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.25	27.3
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.21	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**TRC-042 BWALL**

*SW-846 8082A*

Lab Sample ID: 18G0194-12 Date(s) Analyzed: 07/10/2018 07/10/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.26	31.1
Aroclor-1260	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.13	0.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
------------

*SW-846 8082A*

Lab Sample ID:                     B207332-BS1                                          Date(s) Analyzed:           07/08/2018                     07/08/2018          

Instrument ID (1):                     ECD 9                                          Instrument ID (2):                     ECD 9                    

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	0.79	
	2	0.000	0.000	0.000	0.82	3.7
Aroclor-1260	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.77	5.3

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

<b>LCS Dup</b>
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Lab Sample ID:                   B207332-BSD1                                        Date(s) Analyzed:           07/08/2018                     07/08/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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	0.76	
	2	0.000	0.000	0.000	0.81	6.4
Aroclor-1260	1	0.000	0.000	0.000	0.72	
	2	0.000	0.000	0.000	0.78	8.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike**

*SW-846 8082A*

Lab Sample ID:                   B207332-MS1                                        Date(s) Analyzed:           07/08/2018                     07/08/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	0.74	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.72	
	2	0.000	0.000	0.000	0.78	8.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**Matrix Spike Dup**

*SW-846 8082A*

Lab Sample ID:                   B207332-MSD1                                        Date(s) Analyzed:           07/08/2018                     07/08/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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	0.79	
	2	0.000	0.000	0.000	0.78	1.3
Aroclor-1260	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	0.78	5.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8082A*

Lab Sample ID:                   B207466-BS1                                        Date(s) Analyzed:           07/10/2018                     07/10/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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	0.83	
	2	0.000	0.000	0.000	0.81	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.85	3.6

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

<b>LCS Dup</b>
----------------

Lab Sample ID:                   B207466-BSD1                                        Date(s) Analyzed:           07/10/2018                     07/10/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.83	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.82	3.7

---

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

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2018

1860194

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



39 Spruce Street  
 East Longmeadow, MA 01028

**Company Name:** TRC  
**Address:** 21 Grafton Rd N, Windsor, CT 06095  
**Phone:** 860-298-9692  
**Project Name:** Station B Scabbling  
**Project Location:** 510 Stond Ave, New Haven, CT  
**Project Number:** 203951.000013.000001  
**Project Manager:** Carl Stopper 860-298-6131  
**Con-Test Quote Name/Number:** Direct Invoice to UIL  
**Invoice Recipient:** Shawn Crosbie (UIL) 203-926-4595  
**Sampled By:** Matt Blumstein (TRC)

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	TRC-C031 (1.25")	7/5/18 0920	NA			O	U
2	TRC-C032 (1.25")	7/5/18 0922					
3	TRC-C033 (0.5")	7/5/18 0925					
4	TRC-C034 (1.25")	7/5/18 0905					
5	TRC-C035 (1.5")	7/5/18 0910					
6	TRC-C036 (1.25")	7/5/18 0915					
7	TRC-C037 (0.5")	7/5/18 0917					
8	TRC-C039 (1.5")	7/5/18 0927					
9	TRC-C039 BWALL	7/5/18 0940					
10	TRC-C040 BWALL	7/5/18 0942					

Comments: Matt = Create. Direct Invoice to Shawn.Crosbie@ulnet.com

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

Requested by: (signature)	Date/Time	Detection Limit Requirements	Special Requirements
<i>Matt Crosbie</i>	8:52	MA	MA MCP Required
<i>Shawn Crosbie</i>	8:52		MCP Certification Form Required
<i>Shawn Crosbie</i>	7/6/18	CT	CT RCP Required
<i>Shawn Crosbie</i>	7/6/18 16:30	GA PCBs > 1ppm	RCP Certification Form Required
<i>Shawn Crosbie</i>	7-6-18 16:30	Most Stringent	
<i>Shawn Crosbie</i>	7-6-18 16:30	Criteria	

Requested by: (signature)	Date/Time	Project Entity	Municipality	MWRA	School	MBTA	Other
<i>Shawn Crosbie</i>	7-6-18 16:30						Chromatogram
<i>Shawn Crosbie</i>	7-6-18 16:30						AIHA-LAP, LLC

**# of Containers**

**2 Preservation Code**

**3 Container Code**

**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)  
Concrete

**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)

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

**PCB ONLY**

Soxhlet

Non Soxhlet

Company Name: **TRC**  
 Address: **21 Griffin Rd N, Windsor, CT 06095**  
 Phone: **860-298-9672**  
 Project Name: **Station B Scabbling**  
 Project Location: **510 Grand Ave, New Haven, CT**  
 Project Number: **263951, 000013, 000001**  
 Project Manager: **Carl stopper 860-298-6231**  
 Con-Test Quote Name/Number: **Direct Invoice to U/L**  
 Invoice Recipient: **Shawn Crosbie (U/L) 203-926-4595**  
 Sampled By: **Matt Blumstein (TRC)**

**Requested Turnaround Time**  
 7-Day  10-Day   
 Due Date: \_\_\_\_\_

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

**Data Delivery**  
 Format: PDF  EXCEL   
 Other: \_\_\_\_\_

CLP Like Data Pkg Required:   
 Email To: **Cstopper@treresolutions.com**  
 Fax To #: **MBlumstein@treresolutions.com**

Requested Turnaround Time	7-Day	10-Day	Due Date	Rush-Approval Required	1-Day	3-Day	2-Day	4-Day	Data Delivery	Format	PDF	EXCEL	Other	CLP Like Data Pkg Required	Email To	Fax To #
	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<b>Cstopper@treresolutions.com</b>	<b>MBlumstein@treresolutions.com</b>

# of Containers: \_\_\_\_\_

<sup>2</sup> Preservation Code: \_\_\_\_\_

<sup>3</sup> Container Code: \_\_\_\_\_

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

**Orthophosphate Samples**  
 Field Filtered  
 Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	Other
4	TRC-041 BWALL	7/3/18 6:45	NA			O	U	X
<div style="border: 2px solid red; padding: 5px; color: red; font-weight: bold;">                     RUN SAMPLE TRC-042 BWALL FOR PCB SOXHLET -LAW 7/9/18                 </div>								

<sup>1</sup> **Matrix Codes:**  
 GW = Ground Water  
 WW = Waste Water  
 DW = Drinking Water  
 A = Air  
 S = Soil  
 SL = Sludge  
 SOL = Solid  
 O = Other (please define)  
Concrete

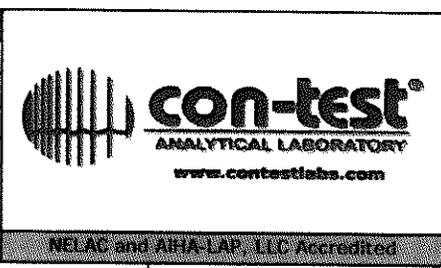
<sup>2</sup> **Preservation Codes:**  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium Bisulfate  
 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
 O = Other (please define)

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

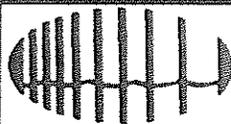
Comments: **Direct Invoice to Shawn.Crosbie@Ulnet.com**

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

Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 8:52	Detection Limit Requirements MA	Special Requirements <input type="checkbox"/> MA MCP Required
Received by: (signature) <i>[Signature]</i>	Date/Time: 8:52		<input type="checkbox"/> MCP Certification Form Required
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 14:30	01 GA PCBs > 1 ppm most stringent Criteria	<input checked="" type="checkbox"/> CT RCP Required <input type="checkbox"/> RCP Certification Form Required
Received by: (signature) <i>[Signature]</i>	Date/Time: 16:30		<input type="checkbox"/> MA State DW Required
Relinquished by: (signature) <i>[Signature]</i>	Date/Time: 7-6-18		Other: PWSID # _____
Received by: (signature) <i>[Signature]</i>	Date/Time: _____	Project Entity	Other
		<input type="checkbox"/> Government <input type="checkbox"/> Municipality <input type="checkbox"/> MWRA <input type="checkbox"/> WRTA	<input type="checkbox"/> Chromatogram
		<input type="checkbox"/> Federal <input type="checkbox"/> 21 J <input type="checkbox"/> School <input type="checkbox"/> AIHA-LAP, LLC	<input type="checkbox"/> AIHA-LAP, LLC
		<input type="checkbox"/> City <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA	



**PCB ONLY**  
 Soxhlet  
 Non Soxhlet



**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 TRC

Received By ESP Date 5-6-18 Time 16:30

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 # 7 Actual Temp - 2.2  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

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

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_

Are there Rushes? T Who was notified? MIRE R.

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
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		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:**

- SAMPLE 42 DWILL 9:47 RECEIVED NOT ON COC.



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

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

**Client:** TRC Environmental Corporation - CT

**Project Location:** 510 Grand Ave., New Haven, CT

**Project Number:** 18G0194

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G0194-01 thru 18G0194-12

07/05/2018,

07/06/2018

**List RCP Methods Used:**

SW-846 8082A

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and 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"/> N/A
<b>2</b>	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
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this 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:**

**Position:**

**Printed Name:** \_

**Date:** 07/10/18

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

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

July 25, 2018

Carl Stopper  
TRC Environmental Corporation - CT  
21 Griffin Road North  
Windsor, CT 06095

Project Location: 510 Grand Ave., New Haven, CT  
Client Job Number:  
Project Number: 263954.000013.000001  
Laboratory Work Order Number: 18G0878

Enclosed are results of analyses for samples received by the laboratory on July 23, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping 'y' at the end.

Meghan E. Kelley  
Project Manager

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

TRC Environmental Corporation - CT  
 21 Griffin Road North  
 Windsor, CT 06095  
 ATTN: Carl Stopper

REPORT DATE: 7/25/2018

PURCHASE ORDER NUMBER: 4500453202-10

PROJECT NUMBER: 263954.000013.000001

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18G0878

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

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-C040 (1.25")	18G0878-01	Concrete		SM 2540G SW-846 8082A	
TRC-C041 (1")	18G0878-02	Concrete		SM 2540G SW-846 8082A	
TRC-C042 (1")	18G0878-03	Concrete		SM 2540G SW-846 8082A	
TRC-C038 (1")	18G0878-04	Concrete		SM 2540G SW-846 8082A	
TRC-C692 (1")	18G0878-05	Concrete		SM 2540G SW-846 8082A	
TRC-C682 (1")	18G0878-06	Concrete		SM 2540G SW-846 8082A	
TRC-C030 (1")	18G0878-07	Concrete		SM 2540G SW-846 8082A	
TRC-C029 (1")	18G0878-08	Concrete		SM 2540G SW-846 8082A	

CASE NARRATIVE SUMMARY

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

REVISED REPORT - 7/25/2018 - Report matrix revised per chain of custody.

SW-846 8082A

Qualifications:

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

18G0878-03[TRC-C042 (1")], 18G0878-07[TRC-C030 (1")]

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

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



Meghan E. Kelley  
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C040 (1.25")

Sampled: 7/23/2018 08:55

Sample ID: 18G0878-01

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:23	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		104	30-150					7/24/18 22:23	
Decachlorobiphenyl [2]		110	30-150					7/24/18 22:23	
Tetrachloro-m-xylene [1]		92.2	30-150					7/24/18 22:23	
Tetrachloro-m-xylene [2]		97.4	30-150					7/24/18 22:23	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C040 (1.25")

Sampled: 7/23/2018 08:55

Sample ID: 18G0878-01

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	7/23/18	7/24/18 11:33	MJR

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C041 (1")

Sampled: 7/23/2018 09:00

Sample ID: 18G0878-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:41	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					7/24/18 22:41	
Decachlorobiphenyl [2]		108	30-150					7/24/18 22:41	
Tetrachloro-m-xylene [1]		90.0	30-150					7/24/18 22:41	
Tetrachloro-m-xylene [2]		96.4	30-150					7/24/18 22:41	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C041 (1")

Sampled: 7/23/2018 09:00

Sample ID: 18G0878-02

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	7/23/18	7/24/18 11:33	MJR

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C042 (1")

Sampled: 7/23/2018 09:05

Sample ID: 18G0878-03

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1248 [2]	0.10	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1254 [2]	0.092	0.082	mg/Kg dry	4	P-01	SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 22:59	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.8	30-150					7/24/18 22:59	
Decachlorobiphenyl [2]		96.1	30-150					7/24/18 22:59	
Tetrachloro-m-xylene [1]		85.2	30-150					7/24/18 22:59	
Tetrachloro-m-xylene [2]		87.2	30-150					7/24/18 22:59	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C042 (1")

Sampled: 7/23/2018 09:05

Sample ID: 18G0878-03

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	7/23/18	7/24/18 11:34	MJR

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C038 (1")

Sampled: 7/23/2018 09:10

Sample ID: 18G0878-04

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:16	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.7	30-150					7/24/18 23:16	
Decachlorobiphenyl [2]		106	30-150					7/24/18 23:16	
Tetrachloro-m-xylene [1]		81.2	30-150					7/24/18 23:16	
Tetrachloro-m-xylene [2]		87.6	30-150					7/24/18 23:16	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C038 (1")

Sampled: 7/23/2018 09:10

Sample ID: 18G0878-04

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	7/23/18	7/24/18 11:34	MJR

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C692 (1")

Sampled: 7/23/2018 09:15

Sample ID: 18G0878-05

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:34	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.1	30-150					7/24/18 23:34	
Decachlorobiphenyl [2]		103	30-150					7/24/18 23:34	
Tetrachloro-m-xylene [1]		81.6	30-150					7/24/18 23:34	
Tetrachloro-m-xylene [2]		88.0	30-150					7/24/18 23:34	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C692 (1")

Sampled: 7/23/2018 09:15

Sample ID: 18G0878-05

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	7/23/18	7/24/18 11:34	MJR

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C682 (1")

Sampled: 7/23/2018 09:20

Sample ID: 18G0878-06

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	7/23/18	7/24/18 23:52	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.6	30-150					7/24/18 23:52	
Decachlorobiphenyl [2]		101	30-150					7/24/18 23:52	
Tetrachloro-m-xylene [1]		84.0	30-150					7/24/18 23:52	
Tetrachloro-m-xylene [2]		91.2	30-150					7/24/18 23:52	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C682 (1")

Sampled: 7/23/2018 09:20

Sample ID: 18G0878-06

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7		% Wt	1		SM 2540G	7/23/18	7/24/18 11:34	MJR

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C030 (1")

Sampled: 7/23/2018 09:30

Sample ID: 18G0878-07

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1248 [2]	0.097	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1254 [2]	0.11	0.084	mg/Kg dry	4	P-01	SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:10	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	92.2		30-150				7/25/18 0:10		
Decachlorobiphenyl [2]	99.4		30-150				7/25/18 0:10		
Tetrachloro-m-xylene [1]	86.7		30-150				7/25/18 0:10		
Tetrachloro-m-xylene [2]	92.7		30-150				7/25/18 0:10		

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C030 (1")

Sampled: 7/23/2018 09:30

Sample ID: 18G0878-07

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	7/23/18	7/24/18 11:34	MJR

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C029 (1")

Sampled: 7/23/2018 09:35

Sample ID: 18G0878-08

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	7/23/18	7/25/18 0:27	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.2	30-150					7/25/18 0:27	
Decachlorobiphenyl [2]		107	30-150					7/25/18 0:27	
Tetrachloro-m-xylene [1]		84.2	30-150					7/25/18 0:27	
Tetrachloro-m-xylene [2]		90.5	30-150					7/25/18 0:27	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18G0878

Date Received: 7/23/2018

Field Sample #: TRC-C029 (1")

Sampled: 7/23/2018 09:35

Sample ID: 18G0878-08

Sample Matrix: Concrete

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.5		% Wt	1		SM 2540G	7/23/18	7/24/18 11:34	MJR

**Sample Extraction Data**

**Prep Method: % Solids-SM 2540G**

Lab Number [Field ID]	Batch	Date
18G0878-01 [TRC-C040 (1.25")]	B208520	07/23/18
18G0878-02 [TRC-C041 (1")]	B208520	07/23/18
18G0878-03 [TRC-C042 (1")]	B208520	07/23/18
18G0878-04 [TRC-C038 (1")]	B208520	07/23/18
18G0878-05 [TRC-C692 (1")]	B208520	07/23/18
18G0878-06 [TRC-C682 (1")]	B208520	07/23/18
18G0878-07 [TRC-C030 (1")]	B208520	07/23/18
18G0878-08 [TRC-C029 (1")]	B208520	07/23/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18G0878-01 [TRC-C040 (1.25")]	B208491	10.1	10.0	07/23/18
18G0878-02 [TRC-C041 (1")]	B208491	10.3	10.0	07/23/18
18G0878-03 [TRC-C042 (1")]	B208491	10.4	10.0	07/23/18
18G0878-04 [TRC-C038 (1")]	B208491	10.1	10.0	07/23/18
18G0878-05 [TRC-C692 (1")]	B208491	10.1	10.0	07/23/18
18G0878-06 [TRC-C682 (1")]	B208491	10.2	10.0	07/23/18
18G0878-07 [TRC-C030 (1")]	B208491	10.2	10.0	07/23/18
18G0878-08 [TRC-C029 (1")]	B208491	10.4	10.0	07/23/18

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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
<b>Batch B208491 - SW-846 3540C</b>										
<b>Blank (B208491-BLK1)</b>										
Prepared: 07/23/18 Analyzed: 07/24/18										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.238		mg/Kg wet	0.200		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.243		mg/Kg wet	0.200		121	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.189		mg/Kg wet	0.200		94.7	30-150			
<b>LCS (B208491-BS1)</b>										
Prepared: 07/23/18 Analyzed: 07/24/18										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		97.5	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		100	40-140			
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		97.8	40-140			
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Surrogate: Decachlorobiphenyl	0.227		mg/Kg wet	0.200		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.235		mg/Kg wet	0.200		117	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.7	30-150			
<b>LCS Dup (B208491-BSD1)</b>										
Prepared: 07/23/18 Analyzed: 07/24/18										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		97.5	40-140	0.0128	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	2.41	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		97.4	40-140	0.367	30	
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140	0.629	30	
Surrogate: Decachlorobiphenyl	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.232		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg wet	0.200		96.1	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

TRC-C042 (1")

*SW-846 8082A*

Lab Sample ID: 18G0878-03 Date(s) Analyzed: 07/24/2018 07/24/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.10	
	2	0.000	-0.030	0.030	0.10	0.0

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

TRC-C030 (1")

Lab Sample ID: 18G0878-07 Date(s) Analyzed: 07/25/2018 07/25/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.088	
	2	0.000	-0.030	0.030	0.097	9.7

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

LCS
-----

Lab Sample ID:                   B208491-BS1                                        Date(s) Analyzed:           07/24/2018                     07/24/2018          

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.20	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.20	0.0

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

<b>LCS Dup</b>
----------------

Lab Sample ID:                     B208491-BSD1                                          Date(s) Analyzed:           07/24/2018                     07/24/2018          

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	0.0

---

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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.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



1860878

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

MEK

Company Name: TRC

Address: 21 Griffin Rd N, Windsor, CT 06095

Phone: 860-298-9692

Project Name: Station B Seabbling

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 263951.000013.00001

Project Manager: Carl Stoppa 860-298-6231

Con-Test Quote Name/Number: Direct Invoice to UIL

Invoice Recipient: Shawn Crosbie (UIL) 203-926-4595

Sampled By: Matt Blumstein (TRC)

Doc # 381 Rev 1\_03242017

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 1

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	TRC-C040 (1.25")	7/23/18 0855	NA			0	U
02	TRC-C041 (1")	7/23/18 0900					
03	TRC-C042 (1")	7/23/18 0905					
04	TRC-C038 (1")	7/23/18 0910					
05	TRC-C092 (1")	7/23/18 0915					
06	TRC-C682 (1")	7/23/18 0920					
07	TRC-C030 (1")	7/23/18 0930					
08	TRC-C029 (1")	7/23/18 0935					

Requested Turnaround Time	7-Day	10-Day
Due Date:	<input type="checkbox"/>	<input type="checkbox"/>

Rush-Approval Required	1-Day	3-Day	4-Day
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Date Delivery	PDF	EXCEL
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Other:  CLP Like Data Pkg Required.  
 Email To: [MBlumstein@trc-labs.com](mailto:MBlumstein@trc-labs.com)  
 Fax To #:

ANALYSIS REQUESTED

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

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)

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

PCB ONLY  
 Soxhlet  
 Non Soxhlet

Comments: Direct Invoice to Shawn, Crosbie@uil.net.com

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

Relinquished by: (signature)	Date/Time:	MA	Special Requirements
<i>Matthew Blumstein</i>	7/23/18 1215	<input type="checkbox"/>	MA MCP Required
<i>[Signature]</i>	7/23/18 1215	<input checked="" type="checkbox"/>	MCP Certification Form Required
<i>[Signature]</i>	7/23/18 1730	<input type="checkbox"/>	CT RCP Required
<i>[Signature]</i>	7/23/18 1730	<input type="checkbox"/>	RCP Certification Form Required
<i>[Signature]</i>	7/23/18 1733	<input type="checkbox"/>	MA State DW Required
<i>[Signature]</i>			PWSID #

Project Entity	Government	Federal	City	Municipality	21 J	Brownfield	MWRA	School	MBTA	WRTA	Chromatogram	Other
	<input type="checkbox"/>											

con-test ANALYTICAL LABORATORY  
 www.con-testlabs.com



**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 TRC  
 Received By SE Date 7/23/18 Time 1730  
 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 # 8 Actual Temp - 2.3  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
 Was Custody Seal Intact? N/A Were Samples Tampered with? N/A  
 Was COC Relinquished? T Does Chain Agree With Samples? T  
 Are there broken/leaking/loose caps on any samples? F  
 Is COC in ink/ Legible? T Were samples received within holding time? T  
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
 Project T ID's T Collection Dates/Times T  
 Are Sample labels filled out and legible? T  
 Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
 Are there Rushes? FT Who was notified? Ray  
 Are there Short Holds? FT Who was notified? \_\_\_\_\_  
 Is there enough Volume? T  
 Is there Headspace where applicable? N/A MS/MSD? F  
 Proper Media/Containers Used? T Is splitting samples required? F  
 Were trip blanks received? F On COC? F  
 Do all samples have the proper pH? N/A 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
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		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:** TRC Environmental Corporation - CT

**Project Location:** 510 Grand Ave., New Haven, CT

**Project Number:** 18G0878

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G0878-01 thru 18G0878-08

07/23/2018

**List RCP Methods Used:**

SW-846 8082A

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and 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"/> N/A
<b>2</b>	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
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this 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."

Tod E. Kopycinski

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:** Laboratory Director

**Printed Name:** Tod E. Kopycinski

**Date:** 07/25/18

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

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

July 27, 2018

Carl Stopper  
TRC Environmental Corporation - CT  
21 Griffin Road North  
Windsor, CT 06095

Project Location: 510 Grand Ave, New Haven, CT  
Client Job Number:  
Project Number: 263954.000013.000001  
Laboratory Work Order Number: 18G0988

Enclosed are results of analyses for samples received by the laboratory on July 25, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping 'y' at the end.

Meghan E. Kelley  
Project Manager

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TRC Environmental Corporation - CT  
21 Griffin Road North  
Windsor, CT 06095  
ATTN: Carl Stopper

REPORT DATE: 7/27/2018

PURCHASE ORDER NUMBER: 4500453202-10

PROJECT NUMBER: 263954.000013.000001

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**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 18G0988

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

PROJECT LOCATION: 510 Grand Ave, New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-C027 (1")	18G0988-01	Concrete		SW-846 8082A	
TRC-C028 (1")	18G0988-02	Concrete		SW-846 8082A	
TRC-C676 (1")	18G0988-03	Concrete		SW-846 8082A	

**CASE NARRATIVE SUMMARY**

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

**SW-846 8082A**

**Qualifications:**

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**P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

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

**Aroclor-1254 [2C]**

18G0988-03[TRC-C676 (1")]

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

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



Daren J. Damboragian  
Director of Operations

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 18G0988

Date Received: 7/25/2018

Field Sample #: TRC-C027 (1'')

Sampled: 7/25/2018 07:20

Sample ID: 18G0988-01

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:36	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.6	30-150					7/27/18 0:36	
Decachlorobiphenyl [2]		95.5	30-150					7/27/18 0:36	
Tetrachloro-m-xylene [1]		96.7	30-150					7/27/18 0:36	
Tetrachloro-m-xylene [2]		98.1	30-150					7/27/18 0:36	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 18G0988

Date Received: 7/25/2018

Field Sample #: TRC-C028 (1'')

Sampled: 7/25/2018 07:30

Sample ID: 18G0988-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1221 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1232 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1242 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1248 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1254 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1260 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1262 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Aroclor-1268 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 0:49	WAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.1	30-150					7/27/18 0:49	
Decachlorobiphenyl [2]		89.9	30-150					7/27/18 0:49	
Tetrachloro-m-xylene [1]		77.9	30-150					7/27/18 0:49	
Tetrachloro-m-xylene [2]		79.6	30-150					7/27/18 0:49	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 18G0988

Date Received: 7/25/2018

Field Sample #: TRC-C676 (1'')

Sampled: 7/25/2018 07:40

Sample ID: 18G0988-03

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1248 [1]	0.19	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1254 [2]	0.26	0.093	mg/Kg	1	P-01	SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1260 [1]	0.19	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	7/25/18	7/27/18 1:02	WAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	86.3		30-150				7/27/18 1:02		
Decachlorobiphenyl [2]	85.2		30-150				7/27/18 1:02		
Tetrachloro-m-xylene [1]	85.8		30-150				7/27/18 1:02		
Tetrachloro-m-xylene [2]	87.4		30-150				7/27/18 1:02		

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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18G0988-01 [TRC-C027 (1")]	B208686	2.19	10.0	07/25/18
18G0988-02 [TRC-C028 (1")]	B208686	2.27	10.0	07/25/18
18G0988-03 [TRC-C676 (1")]	B208686	2.15	10.0	07/25/18

---

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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
<b>Batch B208686 - SW-846 3540C</b>										
<b>Blank (B208686-BLK1)</b>										
Prepared: 07/25/18 Analyzed: 07/26/18										
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	0.881		mg/Kg	1.00		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.880		mg/Kg	1.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.885		mg/Kg	1.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.902		mg/Kg	1.00		90.2	30-150			
<b>LCS (B208686-BS1)</b>										
Prepared: 07/25/18 Analyzed: 07/27/18										
Aroclor-1016	0.90	0.10	mg/Kg	1.00		90.2	40-140			
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.4	40-140			
Aroclor-1260	0.90	0.10	mg/Kg	1.00		89.6	40-140			
Aroclor-1260 [2C]	0.89	0.10	mg/Kg	1.00		88.9	40-140			
Surrogate: Decachlorobiphenyl	0.874		mg/Kg	1.00		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.880		mg/Kg	1.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.878		mg/Kg	1.00		87.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.890		mg/Kg	1.00		89.0	30-150			
<b>LCS Dup (B208686-BSD1)</b>										
Prepared: 07/25/18 Analyzed: 07/27/18										
Aroclor-1016	0.93	0.10	mg/Kg	1.00		92.8	40-140	2.82	30	
Aroclor-1016 [2C]	0.92	0.10	mg/Kg	1.00		92.3	40-140	2.04	30	
Aroclor-1260	0.92	0.10	mg/Kg	1.00		91.7	40-140	2.30	30	
Aroclor-1260 [2C]	0.91	0.10	mg/Kg	1.00		90.8	40-140	2.05	30	
Surrogate: Decachlorobiphenyl	0.887		mg/Kg	1.00		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.905		mg/Kg	1.00		90.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.884		mg/Kg	1.00		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.889		mg/Kg	1.00		88.9	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

TRC-C676 (1")

*SW-846 8082A*

Lab Sample ID: 18G0988-03 Date(s) Analyzed: 07/27/2018 07/27/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.26	47.6
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.18	5.4

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

LCS
-----

Lab Sample ID:                     B208686-BS1                                          Date(s) Analyzed:           07/27/2018                     07/27/2018          

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	0.90	
	2	0.000	0.000	0.000	0.90	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.90	
	2	0.000	0.000	0.000	0.89	1.1

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

<b>LCS Dup</b>
----------------

Lab Sample ID:                   B208686-BSD1                                        Date(s) Analyzed:           07/27/2018                     07/27/2018          

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	0.93	
	2	0.000	0.000	0.000	0.92	1.1
Aroclor-1260	1	0.000	0.000	0.000	0.92	
	2	0.000	0.000	0.000	0.91	1.1

---

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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.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019





**con-test**<sup>®</sup>  
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 TRC

Received By SE Date 7/25/18 Time 1740

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 # 8 Actual Temp - 3.6  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

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

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

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

Are Sample labels filled out and legible? T  
 Are there Lab to Filters? F  
 Are there Rushes? T  
 Are there Short Holds? F  
 Is there enough Volume? T  
 Is there Headspace where applicable? N/A  
 Proper Media/Containers Used? T  
 Were trip blanks received? F  
 Do all samples have the proper pH? N/A

Who was notified? \_\_\_\_\_  
 Who was notified? Mike R.  
 Who was notified? \_\_\_\_\_

MS/MSD? F  
 Is splitting samples required? F  
 On COC? F 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
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	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:** TRC Environmental Corporation - CT

**Project Location:** 510 Grand Ave, New Haven, CT

**Project Number:** 18G0988

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G0988-01 thru 18G0988-03

07/25/2018

*List RCP Methods Used:*

SW-846 8082A

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and 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"/> N/A
<b>2</b>	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
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	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
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this 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.

Daren J. Damboragian

**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:** Director of Operations

**Printed Name:** Daren J. Damboragian

**Date:** 07/27/18

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

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

July 30, 2018

Carl Stopper  
TRC Environmental Corporation - CT  
21 Griffin Road North  
Windsor, CT 06095

Project Location: 510 Grand Avenue, New Haven, CT  
Client Job Number:  
Project Number: 263954.000013.000001  
Laboratory Work Order Number: 18G1075

Enclosed are results of analyses for samples received by the laboratory on July 26, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan E. Kelley". The signature is written in a cursive style with a large, flowing 'y' at the end.

Meghan E. Kelley  
Project Manager

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TRC Environmental Corporation - CT  
 21 Griffin Road North  
 Windsor, CT 06095  
 ATTN: Carl Stopper

REPORT DATE: 7/30/2018

PURCHASE ORDER NUMBER: 4500453202-10

PROJECT NUMBER: 263954.000013.000001

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18G1075

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

PROJECT LOCATION: 510 Grand Avenue, New Haven, CT

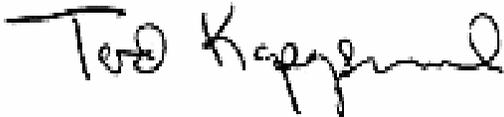
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-C019 (1")	18G1075-01	Concrete		SW-846 8082A	
TRC-C020 (1")	18G1075-02	Concrete		SW-846 8082A	
TRC-C021 (1")	18G1075-03	Concrete		SW-846 8082A	
TRC-C022 (1")	18G1075-04	Concrete		SW-846 8082A	
TRC-C023 (1")	18G1075-05	Concrete		SW-846 8082A	
TRC-C024 (1")	18G1075-06	Concrete		SW-846 8082A	
TRC-C025 (2")	18G1075-07	Concrete		SW-846 8082A	
TRC-C026 (2")	18G1075-08	Concrete		SW-846 8082A	

**CASE NARRATIVE SUMMARY**

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

The results of analyses reported only relate to samples submitted to 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.

A handwritten signature in black ink, appearing to read "Tod Kopycinski". The signature is fluid and cursive, with a large initial "T" and "K".

Tod E. Kopycinski  
Laboratory Director

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

Project Location: 510 Grand Avenue, New Haven, C

Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C019 (1")

Sampled: 7/26/2018 09:35

Sample ID: 18G1075-01

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1260 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:25	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.1	30-150					7/28/18 19:25	
Decachlorobiphenyl [2]		106	30-150					7/28/18 19:25	
Tetrachloro-m-xylene [1]		95.7	30-150					7/28/18 19:25	
Tetrachloro-m-xylene [2]		99.0	30-150					7/28/18 19:25	

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

Project Location: 510 Grand Avenue, New Haven, C Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C020 (1'')

Sampled: 7/26/2018 10:00

Sample ID: 18G1075-02

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1221 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1232 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1242 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1248 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1254 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1260 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1262 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Aroclor-1268 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:38	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.8	30-150					7/28/18 19:38	
Decachlorobiphenyl [2]		110	30-150					7/28/18 19:38	
Tetrachloro-m-xylene [1]		94.2	30-150					7/28/18 19:38	
Tetrachloro-m-xylene [2]		98.1	30-150					7/28/18 19:38	

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

Project Location: 510 Grand Avenue, New Haven, C

Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C021 (1'')

Sampled: 7/26/2018 10:05

Sample ID: 18G1075-03

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 19:50	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					7/28/18 19:50	
Decachlorobiphenyl [2]		112	30-150					7/28/18 19:50	
Tetrachloro-m-xylene [1]		96.3	30-150					7/28/18 19:50	
Tetrachloro-m-xylene [2]		100	30-150					7/28/18 19:50	

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Project Location: 510 Grand Avenue, New Haven, C Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C022 (1'')

Sampled: 7/26/2018 10:10

Sample ID: 18G1075-04

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:03	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.4	30-150					7/28/18 20:03	
Decachlorobiphenyl [2]		110	30-150					7/28/18 20:03	
Tetrachloro-m-xylene [1]		96.5	30-150					7/28/18 20:03	
Tetrachloro-m-xylene [2]		101	30-150					7/28/18 20:03	

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Project Location: 510 Grand Avenue, New Haven, C Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C023 (1'')

Sampled: 7/26/2018 10:15

Sample ID: 18G1075-05

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1221 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1232 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1242 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1248 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1254 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1260 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1262 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Aroclor-1268 [1]	ND	0.073	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:15	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.7	30-150					7/28/18 20:15	
Decachlorobiphenyl [2]		108	30-150					7/28/18 20:15	
Tetrachloro-m-xylene [1]		90.1	30-150					7/28/18 20:15	
Tetrachloro-m-xylene [2]		93.4	30-150					7/28/18 20:15	

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

Project Location: 510 Grand Avenue, New Haven, C

Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C024 (1'')

Sampled: 7/26/2018 10:20

Sample ID: 18G1075-06

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1221 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1232 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1242 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1248 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1254 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1260 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1262 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Aroclor-1268 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:28	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.3	30-150					7/28/18 20:28	
Decachlorobiphenyl [2]		109	30-150					7/28/18 20:28	
Tetrachloro-m-xylene [1]		94.8	30-150					7/28/18 20:28	
Tetrachloro-m-xylene [2]		97.8	30-150					7/28/18 20:28	

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

Project Location: 510 Grand Avenue, New Haven, C      Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C025 (2'')

Sampled: 7/26/2018 10:25

Sample ID: 18G1075-07

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:40	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					7/28/18 20:40	
Decachlorobiphenyl [2]		110	30-150					7/28/18 20:40	
Tetrachloro-m-xylene [1]		93.5	30-150					7/28/18 20:40	
Tetrachloro-m-xylene [2]		96.7	30-150					7/28/18 20:40	

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Project Location: 510 Grand Avenue, New Haven, C

Sample Description:

Work Order: 18G1075

Date Received: 7/26/2018

Field Sample #: TRC-C026 (2'')

Sampled: 7/26/2018 10:30

Sample ID: 18G1075-08

Sample Matrix: Concrete

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	7/26/18	7/28/18 20:52	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					7/28/18 20:52	
Decachlorobiphenyl [2]		112	30-150					7/28/18 20:52	
Tetrachloro-m-xylene [1]		94.9	30-150					7/28/18 20:52	
Tetrachloro-m-xylene [2]		97.9	30-150					7/28/18 20:52	

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18G1075-01 [TRC-C019 (1")]	B208800	2.25	10.0	07/26/18
18G1075-02 [TRC-C020 (1")]	B208800	2.71	10.0	07/26/18
18G1075-03 [TRC-C021 (1")]	B208800	2.06	10.0	07/26/18
18G1075-04 [TRC-C022 (1")]	B208800	2.11	10.0	07/26/18
18G1075-05 [TRC-C023 (1")]	B208800	2.75	10.0	07/26/18
18G1075-06 [TRC-C024 (1")]	B208800	2.83	10.0	07/26/18
18G1075-07 [TRC-C025 (2")]	B208800	2.40	10.0	07/26/18
18G1075-08 [TRC-C026 (2")]	B208800	2.26	10.0	07/26/18

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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
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**Batch B208800 - SW-846 3540C**

**Blank (B208800-BLK1)**

Prepared: 07/26/18 Analyzed: 07/28/18

Aroclor-1016	ND	0.074	mg/Kg							
Aroclor-1016 [2C]	ND	0.074	mg/Kg							
Aroclor-1221	ND	0.074	mg/Kg							
Aroclor-1221 [2C]	ND	0.074	mg/Kg							
Aroclor-1232	ND	0.074	mg/Kg							
Aroclor-1232 [2C]	ND	0.074	mg/Kg							
Aroclor-1242	ND	0.074	mg/Kg							
Aroclor-1242 [2C]	ND	0.074	mg/Kg							
Aroclor-1248	ND	0.074	mg/Kg							
Aroclor-1248 [2C]	ND	0.074	mg/Kg							
Aroclor-1254	ND	0.074	mg/Kg							
Aroclor-1254 [2C]	ND	0.074	mg/Kg							
Aroclor-1260	ND	0.074	mg/Kg							
Aroclor-1260 [2C]	ND	0.074	mg/Kg							
Aroclor-1262	ND	0.074	mg/Kg							
Aroclor-1262 [2C]	ND	0.074	mg/Kg							
Aroclor-1268	ND	0.074	mg/Kg							
Aroclor-1268 [2C]	ND	0.074	mg/Kg							
Surrogate: Decachlorobiphenyl	0.722		mg/Kg	0.741		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.791		mg/Kg	0.741		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.654		mg/Kg	0.741		88.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.664		mg/Kg	0.741		89.7	30-150			

**LCS (B208800-BS1)**

Prepared: 07/26/18 Analyzed: 07/28/18

Aroclor-1016	0.97	0.10	mg/Kg	1.00		96.9	40-140			
Aroclor-1016 [2C]	0.95	0.10	mg/Kg	1.00		94.6	40-140			
Aroclor-1260	0.93	0.10	mg/Kg	1.00		93.4	40-140			
Aroclor-1260 [2C]	1.0	0.10	mg/Kg	1.00		99.7	40-140			
Surrogate: Decachlorobiphenyl	0.975		mg/Kg	1.00		97.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.06		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.921		mg/Kg	1.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.947		mg/Kg	1.00		94.7	30-150			

**LCS Dup (B208800-BSD1)**

Prepared: 07/26/18 Analyzed: 07/28/18

Aroclor-1016	0.96	0.096	mg/Kg	0.957		100	40-140	0.790	30	
Aroclor-1016 [2C]	0.93	0.096	mg/Kg	0.957		97.4	40-140	1.44	30	
Aroclor-1260	0.94	0.096	mg/Kg	0.957		98.0	40-140	0.364	30	
Aroclor-1260 [2C]	1.0	0.096	mg/Kg	0.957		104	40-140	0.0761	30	
Surrogate: Decachlorobiphenyl	0.974		mg/Kg	0.957		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		mg/Kg	0.957		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.876		mg/Kg	0.957		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.907		mg/Kg	0.957		94.8	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS

*SW-846 8082A*

Lab Sample ID:           B208800-BS1                                Date(s) Analyzed:           07/28/2018                     07/28/2018          

Instrument ID (1):           ECD 9                                                Instrument ID (2):           ECD 9          

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	0.97	
	2	0.000	0.000	0.000	0.95	2.1
Aroclor-1260	1	0.000	0.000	0.000	0.93	
	2	0.000	0.000	0.000	1.0	7.3

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

<b>LCS Dup</b>
----------------

Lab Sample ID:                     B208800-BSD1                                          Date(s) Analyzed:           07/28/2018                     07/28/2018          

Instrument ID (1):                     ECD 9                                          Instrument ID (2):                     ECD 9                    

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	0.96	
	2	0.000	0.000	0.000	0.93	3.2
Aroclor-1260	1	0.000	0.000	0.000	0.94	
	2	0.000	0.000	0.000	1.0	6.2

---

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**FLAG/QUALIFIER SUMMARY**

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

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

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

**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019





**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 TIC

Received By ESD Date 7-26-18 Time 18:00

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 # 1 Actual Temp - 4.3  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

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

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

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

Are Sample labels filled out and legible? T  
 Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
 Are there Rushes? T Who was notified? Ray  
 Are there Short Holds? OTF 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
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	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:** TRC Environmental Corporation - CT

**Project Location:** 510 Grand Avenue, New Haven, CT

**Project Number:** 18G1075

**Laboratory Sample ID(s):**

**Sample Date(s):**

18G1075-01 thru 18G1075-08

07/26/2018

**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?	<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	VPH and EPH Methods only: Was the VPH and 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"/> 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)?	<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"/> N/A
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
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<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 this 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."

Tod E. Kopyscinski

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:**

*Tod Kopyscinski*

**Position:** Laboratory Director

**Printed Name:** Tod E. Kopyscinski

**Date:** 07/30/18

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

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

August 13, 2018

Carl Stopper  
TRC Environmental Corporation - CT  
21 Griffin Road North  
Windsor, CT 06095

Project Location: 510 Grand Ave., New Haven, CT  
Client Job Number:  
Project Number: 263951.000013.000001  
Laboratory Work Order Number: 18H0423

Enclosed are results of analyses for samples received by the laboratory on August 8, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive style with a large, sweeping 'y' at the end.

Meghan E. Kelley  
Project Manager

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TRC Environmental Corporation - CT  
 21 Griffin Road North  
 Windsor, CT 06095  
 ATTN: Carl Stopper

REPORT DATE: 8/13/2018

PURCHASE ORDER NUMBER: 4500453258-10

PROJECT NUMBER: 263951.000013.000001

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18H0423

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

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-DRUM-COMPOSITE (2-7)	18H0423-01	Waste Water		SW-846 8082A	
				SW-846 8260C	
TRC-DRUM-GRAB (1)	18H0423-02	Waste Water		SW-846 8082A	
				SW-846 8260C	
TRC-SCRABBLER (3) LEFT	18H0423-03	Wipe		SW-846 8082A	
TRC-SCRABBLER (3) RIGHT	18H0423-04	Wipe		SW-846 8082A	
TRC-SCRABBLER (3) BOTTOM	18H0423-05	Wipe		SW-846 8082A	
TRC-SCRABBLER (3) CONTROL	18H0423-06	Wipe		SW-846 8082A	
TRC-SCRABBLER (4) LEFT	18H0423-07	Wipe		SW-846 8082A	
TRC-SCRABBLER (4) RIGHT	18H0423-08	Wipe		SW-846 8082A	
TRC-SCRABBLER (4) BOTTOM	18H0423-09	Wipe		SW-846 8082A	
TRC-NEG-AIR-LEFT	18H0423-10	Wipe		SW-846 8082A	
TRC-NEG-AIR-RIGHT	18H0423-11	Wipe		SW-846 8082A	
TRC-NEG-AIR-BOTTOM	18H0423-12	Wipe		SW-846 8082A	
TRC-VAC-LEFT	18H0423-13	Wipe		SW-846 8082A	
TRC-VAC-RIGHT	18H0423-14	Wipe		SW-846 8082A	
TRC-VAC-BOTTOM	18H0423-15	Wipe		SW-846 8082A	
TRC-DRUM-GRAB (1)	18H0423-16	Oil		EPA 600 4-81-045	
				SW-846 8260C	

**CASE NARRATIVE SUMMARY**

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

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EPA 600 4-81-045

---

**Qualifications:****L-07**

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

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

**Aroclor-1260 [2C]**  
B209916-BSD1

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**L-11**

Laboratory fortified blank/laboratory control sample was outside of control limits on the confirmation column, but within control limits on the primary column. All sample results are reported from the column within control criteria.

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

**Aroclor-1260**  
B209916-BS1, B209916-BSD1

---

**P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

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

**Aroclor-1254 [2C]**  
18H0423-16[TRC-DRUM-GRAB (1)]

---

**Z-01**

Due to LCS/LCSD spike recovery non-conformance on the confirmatory detector, the lower of two results was reported.

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

**Aroclor-1248 [2C]**  
18H0423-16[TRC-DRUM-GRAB (1)]

**Aroclor-1260 [2C]**  
18H0423-16[TRC-DRUM-GRAB (1)]

**SW-846 8082A**

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**Qualifications:****S-19**

Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.

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

**Decachlorobiphenyl**  
18H0423-02[TRC-DRUM-GRAB (1)], 18H0423-02RE1[TRC-DRUM-GRAB (1)]

**Decachlorobiphenyl [2C]**  
18H0423-02[TRC-DRUM-GRAB (1)], 18H0423-02RE1[TRC-DRUM-GRAB (1)]

**Tetrachloro-m-xylene**  
18H0423-02[TRC-DRUM-GRAB (1)], 18H0423-02RE1[TRC-DRUM-GRAB (1)]

**Tetrachloro-m-xylene [2C]**  
18H0423-02[TRC-DRUM-GRAB (1)], 18H0423-02RE1[TRC-DRUM-GRAB (1)]

**SW-846 8260C**

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**Qualifications:****L-01**

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

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

**1,1,2-Trichloro-1,2,2-trifluoroethane**  
B209905-BS1

**1,1-Dichloroethylene**  
B209905-BS1

**Tetrachloroethylene**  
B209905-BS1

**L-03**

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:****trans-1,4-Dichloro-2-butene**

18H0423-16[TRC-DRUM-GRAB (1)], B209970-BLK1, B209970-BS1, S026092-CCV1

**RL-02**

Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.

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

18H0423-01[TRC-DRUM-COMPOSITE (2-7)], 18H0423-02[TRC-DRUM-GRAB (1)]

**RL-13**

Elevated reporting limit due to high concentration of non-target compounds.

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

18H0423-16[TRC-DRUM-GRAB (1)]

**V-05**

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

**Analyte & Samples(s) Qualified:****2,2-Dichloropropane**

18H0423-16[TRC-DRUM-GRAB (1)], B209970-BLK1, B209970-BS1, S026092-CCV1

**Dichlorodifluoromethane (Freon 12)**

18H0423-01[TRC-DRUM-COMPOSITE (2-7)], 18H0423-02[TRC-DRUM-GRAB (1)], B209905-BLK1, B209905-BS1, S026089-CCV1

**trans-1,4-Dichloro-2-butene**

18H0423-16[TRC-DRUM-GRAB (1)], B209970-BLK1, B209970-BS1, S026092-CCV1

**V-20**

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

B209905-BS1, S026089-CCV1

**V-34**

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

**Analyte & Samples(s) Qualified:****Dichlorodifluoromethane (Freon 12)**

B209970-BS1, S026092-CCV1

**V-35**

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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

18H0423-01[TRC-DRUM-COMPOSITE (2-7)], 18H0423-02[TRC-DRUM-GRAB (1)], B209905-BLK1, B209905-BS1, S026089-CCV1

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.

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

Lisa A. Worthington  
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-COMPOSITE (2-7)

Sampled: 8/7/2018 13:10

Sample ID: 18H0423-01

Sample Matrix: Waste Water

Sample Flags: RL-02

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Bromobenzene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Bromodichloromethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Bromoform	ND	10	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Bromomethane	ND	5.0	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Carbon Tetrachloride	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Chlorobenzene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Chlorodibromomethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Chloroethane	ND	5.0	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Chloroform	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Chloromethane	ND	10	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
2-Chlorotoluene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
4-Chlorotoluene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2-Dibromoethane (EDB)	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Dibromomethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2-Dichlorobenzene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,3-Dichlorobenzene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,4-Dichlorobenzene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
trans-1,4-Dichloro-2-butene	ND	10	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	2.5	µg/L	5	V-05	SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,1-Dichloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2-Dichloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,1-Dichloroethylene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
cis-1,2-Dichloroethylene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
trans-1,2-Dichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,3-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
2,2-Dichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,1-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
cis-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
trans-1,3-Dichloropropene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Hexachlorobutadiene	ND	3.0	µg/L	5	V-35	SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Methylene Chloride	ND	25	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,1,1,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,1,2,2-Tetrachloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Tetrachloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2,3-Trichlorobenzene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2,4-Trichlorobenzene	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,1,1-Trichloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,1,2-Trichloroethane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Trichloroethylene	ND	5.0	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
Trichlorofluoromethane (Freon 11)	ND	10	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF
1,2,3-Trichloropropane	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MFF

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-COMPOSITE (2-7)

Sampled: 8/7/2018 13:10

Sample ID: 18H0423-01

Sample Matrix: Waste Water

Sample Flags: RL-02

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	2.5	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MF
Vinyl Chloride	ND	5.0	µg/L	5		SW-846 8260C	8/9/18	8/9/18 13:49	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4	90.8		70-130				8/9/18 13:49		
Toluene-d8	99.8		70-130				8/9/18 13:49		
4-Bromofluorobenzene	98.9		70-130				8/9/18 13:49		

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-COMPOSITE (2-7)

Sampled: 8/7/2018 13:10

Sample ID: 18H0423-01

Sample Matrix: Waste Water

**Polychlorinated Biphenyls By GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1248 [2]	0.90	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1254 [2]	1.0	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1260 [2]	0.94	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/10/18	8/13/18 10:00	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		40.7	30-150					8/13/18 10:00	
Decachlorobiphenyl [2]		45.1	30-150					8/13/18 10:00	
Tetrachloro-m-xylene [1]		75.8	30-150					8/13/18 10:00	
Tetrachloro-m-xylene [2]		79.7	30-150					8/13/18 10:00	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-GRAB (1)

Sampled: 8/7/2018 13:20

Sample ID: 18H0423-02

Sample Matrix: Waste Water

Sample Flags: RL-02

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Bromobenzene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Bromodichloromethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Bromoform	ND	2000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Bromomethane	ND	1000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Carbon Tetrachloride	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Chlorobenzene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Chlorodibromomethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Chloroethane	ND	1000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Chloroform	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Chloromethane	ND	2000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
2-Chlorotoluene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
4-Chlorotoluene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	1000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2-Dibromoethane (EDB)	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Dibromomethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2-Dichlorobenzene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,3-Dichlorobenzene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,4-Dichlorobenzene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
trans-1,4-Dichloro-2-butene	ND	2000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	500	µg/L	1000	V-05	SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,1-Dichloroethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2-Dichloroethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,1-Dichloroethylene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
cis-1,2-Dichloroethylene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
trans-1,2-Dichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2-Dichloropropane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,3-Dichloropropane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
2,2-Dichloropropane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,1-Dichloropropene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
cis-1,3-Dichloropropene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
trans-1,3-Dichloropropene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Hexachlorobutadiene	ND	600	µg/L	1000	V-35	SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Methylene Chloride	ND	5000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,1,1,2-Tetrachloroethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,1,2,2-Tetrachloroethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Tetrachloroethylene	ND	1000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2,3-Trichlorobenzene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2,4-Trichlorobenzene	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,1,1-Trichloroethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,1,2-Trichloroethane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Trichloroethylene	ND	1000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
Trichlorofluoromethane (Freon 11)	ND	2000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF
1,2,3-Trichloropropane	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MFF

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-GRAB (1)

Sampled: 8/7/2018 13:20

Sample ID: 18H0423-02

Sample Matrix: Waste Water

Sample Flags: RL-02

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MF
Vinyl Chloride	ND	1000	µg/L	1000		SW-846 8260C	8/9/18	8/9/18 14:15	MF
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
1,2-Dichloroethane-d4	93.6		70-130			8/9/18 14:15			
Toluene-d8	96.9		70-130			8/9/18 14:15			
4-Bromofluorobenzene	97.1		70-130			8/9/18 14:15			

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-GRAB (1)

Sampled: 8/7/2018 13:20

Sample ID: 18H0423-02

Sample Matrix: Waste Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1016 [1]	ND	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1221 [1]	ND	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1221 [1]	ND	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1232 [1]	ND	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1232 [1]	ND	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1242 [1]	ND	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1242 [1]	ND	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1248 [1]	5.3	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1248 [1]	3.0	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1254 [2]	5.9	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1254 [2]	3.6	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1260 [2]	5.3	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1260 [2]	3.1	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1262 [1]	ND	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL
Aroclor-1262 [1]	ND	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1268 [1]	ND	4.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:26	WAL
Aroclor-1268 [1]	ND	2.0	µg/L	1		SW-846 8082A	8/9/18	8/10/18 10:43	WAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
Decachlorobiphenyl [1]	13.2 *	30-150	S-19	8/10/18 10:26
Decachlorobiphenyl [1]	7.77 *	30-150	S-19	8/10/18 10:43
Decachlorobiphenyl [2]	14.6 *	30-150	S-19	8/10/18 10:26
Decachlorobiphenyl [2]	8.99 *	30-150	S-19	8/10/18 10:43
Tetrachloro-m-xylene [1]	26.3 *	30-150	S-19	8/10/18 10:26
Tetrachloro-m-xylene [1]	20.1 *	30-150	S-19	8/10/18 10:43
Tetrachloro-m-xylene [2]	27.2 *	30-150	S-19	8/10/18 10:26
Tetrachloro-m-xylene [2]	20.6 *	30-150	S-19	8/10/18 10:43

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-SCRABBLER (3) LEFT

Sampled: 8/8/2018 12:30

Sample ID: 18H0423-03

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	8/9/18	8/10/18 11:09	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:09	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.6	30-150					8/10/18 11:09	
Decachlorobiphenyl [2]		75.2	30-150					8/10/18 11:09	
Tetrachloro-m-xylene [1]		79.5	30-150					8/10/18 11:09	
Tetrachloro-m-xylene [2]		80.3	30-150					8/10/18 11:09	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-SCRABBLER (3) RIGHT

Sampled: 8/8/2018 12:35

Sample ID: 18H0423-04

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	8/9/18	8/10/18 11:22	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:22	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.8	30-150					8/10/18 11:22	
Decachlorobiphenyl [2]		79.9	30-150					8/10/18 11:22	
Tetrachloro-m-xylene [1]		89.8	30-150					8/10/18 11:22	
Tetrachloro-m-xylene [2]		90.8	30-150					8/10/18 11:22	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-SCRABBLER (3) BOTTO

Sampled: 8/8/2018 12:40

Sample ID: 18H0423-05

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	8/9/18	8/10/18 11:35	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Aroclor-1248 [1]	0.58	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Aroclor-1254 [1]	0.30	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:35	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.2	30-150					8/10/18 11:35	
Decachlorobiphenyl [2]		84.2	30-150					8/10/18 11:35	
Tetrachloro-m-xylene [1]		90.3	30-150					8/10/18 11:35	
Tetrachloro-m-xylene [2]		91.2	30-150					8/10/18 11:35	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-SCRABBLER (3) CONTR

Sampled: 8/8/2018 12:45

Sample ID: 18H0423-06

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	8/9/18	8/10/18 11:48	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:48	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.3	30-150					8/10/18 11:48	
Decachlorobiphenyl [2]		67.8	30-150					8/10/18 11:48	
Tetrachloro-m-xylene [1]		80.4	30-150					8/10/18 11:48	
Tetrachloro-m-xylene [2]		81.7	30-150					8/10/18 11:48	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-SCRABBLER (4) LEFT

Sampled: 8/8/2018 12:50

Sample ID: 18H0423-07

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	8/9/18	8/10/18 12:00	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:00	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.3	30-150					8/10/18 12:00	
Decachlorobiphenyl [2]		84.5	30-150					8/10/18 12:00	
Tetrachloro-m-xylene [1]		90.8	30-150					8/10/18 12:00	
Tetrachloro-m-xylene [2]		91.4	30-150					8/10/18 12:00	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-SCRABBLER (4) RIGHT

Sampled: 8/8/2018 12:55

Sample ID: 18H0423-08

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	8/9/18	8/10/18 11:05	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:05	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.0	30-150					8/10/18 11:05	
Decachlorobiphenyl [2]		101	30-150					8/10/18 11:05	
Tetrachloro-m-xylene [1]		96.2	30-150					8/10/18 11:05	
Tetrachloro-m-xylene [2]		98.3	30-150					8/10/18 11:05	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-SCRABBLER (4) BOTTO

Sampled: 8/8/2018 13:00

Sample ID: 18H0423-09

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	8/9/18	8/10/18 11:17	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:17	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.1	30-150					8/10/18 11:17	
Decachlorobiphenyl [2]		101	30-150					8/10/18 11:17	
Tetrachloro-m-xylene [1]		94.7	30-150					8/10/18 11:17	
Tetrachloro-m-xylene [2]		98.1	30-150					8/10/18 11:17	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-NEG-AIR-LEFT

Sampled: 8/8/2018 13:05

Sample ID: 18H0423-10

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	8/9/18	8/10/18 11:30	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:30	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.1	30-150					8/10/18 11:30	
Decachlorobiphenyl [2]		99.5	30-150					8/10/18 11:30	
Tetrachloro-m-xylene [1]		89.3	30-150					8/10/18 11:30	
Tetrachloro-m-xylene [2]		93.1	30-150					8/10/18 11:30	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-NEG-AIR-RIGHT

Sampled: 8/8/2018 13:10

Sample ID: 18H0423-11

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	8/9/18	8/10/18 11:43	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:43	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.0	30-150					8/10/18 11:43	
Decachlorobiphenyl [2]		97.9	30-150					8/10/18 11:43	
Tetrachloro-m-xylene [1]		90.4	30-150					8/10/18 11:43	
Tetrachloro-m-xylene [2]		94.3	30-150					8/10/18 11:43	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-NEG-AIR-BOTTOM

Sampled: 8/8/2018 13:15

Sample ID: 18H0423-12

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	8/9/18	8/10/18 11:56	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 11:56	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.2	30-150					8/10/18 11:56	
Decachlorobiphenyl [2]		108	30-150					8/10/18 11:56	
Tetrachloro-m-xylene [1]		103	30-150					8/10/18 11:56	
Tetrachloro-m-xylene [2]		107	30-150					8/10/18 11:56	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-VAC-LEFT

Sampled: 8/8/2018 13:20

Sample ID: 18H0423-13

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	8/9/18	8/10/18 12:08	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:08	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.6	30-150					8/10/18 12:08	
Decachlorobiphenyl [2]		109	30-150					8/10/18 12:08	
Tetrachloro-m-xylene [1]		99.4	30-150					8/10/18 12:08	
Tetrachloro-m-xylene [2]		104	30-150					8/10/18 12:08	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-VAC-RIGHT

Sampled: 8/8/2018 13:25

Sample ID: 18H0423-14

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	8/9/18	8/10/18 12:22	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:22	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.5	30-150					8/10/18 12:22	
Decachlorobiphenyl [2]		104	30-150					8/10/18 12:22	
Tetrachloro-m-xylene [1]		97.6	30-150					8/10/18 12:22	
Tetrachloro-m-xylene [2]		102	30-150					8/10/18 12:22	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-VAC-BOTTOM

Sampled: 8/8/2018 13:30

Sample ID: 18H0423-15

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	8/9/18	8/10/18 12:35	PJG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/9/18	8/10/18 12:35	PJG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.4	30-150					8/10/18 12:35	
Decachlorobiphenyl [2]		100	30-150					8/10/18 12:35	
Tetrachloro-m-xylene [1]		96.1	30-150					8/10/18 12:35	
Tetrachloro-m-xylene [2]		99.7	30-150					8/10/18 12:35	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-GRAB (1)

Sampled: 8/7/2018 13:20

Sample ID: 18H0423-16

Sample Matrix: Oil

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Bromobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Bromochloromethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Bromodichloromethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Bromoform	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Bromomethane	ND	1400	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Carbon Tetrachloride	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Chlorobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Chlorodibromomethane	ND	140	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Chloroethane	ND	2700	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Chloroform	ND	550	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Chloromethane	ND	1400	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
2-Chlorotoluene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
4-Chlorotoluene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,2-Dibromoethane (EDB)	ND	140	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Dibromomethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,2-Dichlorobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,3-Dichlorobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,4-Dichlorobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
trans-1,4-Dichloro-2-butene	ND	550	mg/Kg	200	L-03, V-05	SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Dichlorodifluoromethane (Freon 12)	ND	2700	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1-Dichloroethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,2-Dichloroethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1-Dichloroethylene	ND	550	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
cis-1,2-Dichloroethylene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
trans-1,2-Dichloroethylene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,2-Dichloropropane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,3-Dichloropropane	ND	140	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
2,2-Dichloropropane	ND	270	mg/Kg	200	V-05	SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1-Dichloropropene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
cis-1,3-Dichloropropene	ND	140	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
trans-1,3-Dichloropropene	ND	140	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Hexachlorobutadiene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Methylene Chloride	ND	2700	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1,1,2-Tetrachloroethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1,2,2-Tetrachloroethane	ND	140	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Tetrachloroethylene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,2,3-Trichlorobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,2,4-Trichlorobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,3,5-Trichlorobenzene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1,1-Trichloroethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1,2-Trichloroethane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Trichloroethylene	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Trichlorofluoromethane (Freon 11)	ND	1400	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-GRAB (1)

Sampled: 8/7/2018 13:20

Sample ID: 18H0423-16

Sample Matrix: Oil

Sample Flags: RL-13

**Volatile Organic Compounds by GC/MS**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	270	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1400	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Vinyl Chloride	ND	1400	mg/Kg	200		SW-846 8260C	8/10/18	8/10/18 7:09	LBD
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
1,2-Dichloroethane-d4	88.5	70-130							
Toluene-d8	98.2	70-130							
4-Bromofluorobenzene	99.5	70-130							

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0423

Date Received: 8/8/2018

Field Sample #: TRC-DRUM-GRAB (1)

Sampled: 8/7/2018 13:20

Sample ID: 18H0423-16

Sample Matrix: Oil

**Polychlorinated Biphenyls By GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.97	mg/Kg	1		EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1221 [2]	ND	0.97	mg/Kg	1		EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1232 [2]	ND	0.97	mg/Kg	1		EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1242 [2]	ND	0.97	mg/Kg	1		EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1248 [2]	1.6	0.97	mg/Kg	1	Z-01	EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1254 [2]	2.8	0.97	mg/Kg	1	P-01	EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1260 [2]	1.6	0.97	mg/Kg	1	Z-01	EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1262 [2]	ND	0.97	mg/Kg	1		EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Aroclor-1268 [2]	ND	0.97	mg/Kg	1		EPA 600 4-81-045	8/9/18	8/9/18 21:11	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	98.9		30-150				8/9/18 21:11		
Decachlorobiphenyl [2]	94.1		30-150				8/9/18 21:11		
Tetrachloro-m-xylene [1]	101		30-150				8/9/18 21:11		
Tetrachloro-m-xylene [2]	97.2		30-150				8/9/18 21:11		

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

**Sample Extraction Data**

**Prep Method: SW-846 3580A-EPA 600 4-81-045**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0423-16 [TRC-DRUM-GRAB (1)]	B209916	0.206	10.0	08/09/18

**Prep Method: SW-846 3510C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0423-02 [TRC-DRUM-GRAB (1)]	B209891	100	10.0	08/09/18
18H0423-02RE1 [TRC-DRUM-GRAB (1)]	B209891	50.0	10.0	08/09/18

**Prep Method: SW-846 3510C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0423-01RE1 [TRC-DRUM-COMPOSITE (2-7)]	B210043	1000	10.0	08/10/18

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

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
18H0423-03 [TRC-SCRABBLER (3) LEFT]	B209884	1.00	10.0	08/09/18
18H0423-04 [TRC-SCRABBLER (3) RIGHT]	B209884	1.00	10.0	08/09/18
18H0423-05 [TRC-SCRABBLER (3) BOTTOM]	B209884	1.00	10.0	08/09/18
18H0423-06 [TRC-SCRABBLER (3) CONTROL]	B209884	1.00	10.0	08/09/18
18H0423-07 [TRC-SCRABBLER (4) LEFT]	B209884	1.00	10.0	08/09/18
18H0423-08 [TRC-SCRABBLER (4) RIGHT]	B209884	1.00	10.0	08/09/18
18H0423-09 [TRC-SCRABBLER (4) BOTTOM]	B209884	1.00	10.0	08/09/18
18H0423-10 [TRC-NEG-AIR-LEFT]	B209884	1.00	10.0	08/09/18
18H0423-11 [TRC-NEG-AIR-RIGHT]	B209884	1.00	10.0	08/09/18
18H0423-12 [TRC-NEG-AIR-BOTTOM]	B209884	1.00	10.0	08/09/18
18H0423-13 [TRC-VAC-LEFT]	B209884	1.00	10.0	08/09/18
18H0423-14 [TRC-VAC-RIGHT]	B209884	1.00	10.0	08/09/18
18H0423-15 [TRC-VAC-BOTTOM]	B209884	1.00	10.0	08/09/18

**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
18H0423-16 [TRC-DRUM-GRAB (1)]	B209970	1.10	15.0	0.005	50	08/10/18

**Prep Method: SW-846 5035-SW-846 8260C**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0423-01 [TRC-DRUM-COMPOSITE (2-7)]	B209905	1	5.00	08/09/18
18H0423-02 [TRC-DRUM-GRAB (1)]	B209905	0.005	5.00	08/09/18

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209905 - SW-846 5035</b>										
<b>Blank (B209905-BLK1)</b>										
Prepared & Analyzed: 08/09/18										
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	1.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.50	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							V-05
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							V-35
Methylene Chloride	ND	5.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	0.50	µg/L							
1,2,4-Trichlorobenzene	ND	0.50	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	22.8		µg/L	25.0		91.0	70-130			
Surrogate: Toluene-d8	24.3		µg/L	25.0		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		µg/L	25.0		95.3	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209905 - SW-846 5035</b>										
<b>LCS (B209905-BS1)</b>										
Prepared & Analyzed: 08/09/18										
Bromobenzene	11.7	0.50	µg/L	10.0		117	70-130			
Bromodichloromethane	11.9	0.50	µg/L	10.0		119	70-130			
Bromoform	11.5	0.50	µg/L	10.0		115	70-130			
Bromomethane	11.1	1.0	µg/L	10.0		111	70-130			V-20
Carbon Tetrachloride	11.1	0.50	µg/L	10.0		111	70-130			
Chlorobenzene	12.2	0.50	µg/L	10.0		122	70-130			
Chlorodibromomethane	12.1	0.50	µg/L	10.0		121	70-130			
Chloroethane	11.6	0.50	µg/L	10.0		116	70-130			
Chloroform	12.1	0.50	µg/L	10.0		121	70-130			
Chloromethane	8.82	0.60	µg/L	10.0		88.2	70-130			
2-Chlorotoluene	11.7	0.50	µg/L	10.0		117	70-130			
4-Chlorotoluene	11.7	0.50	µg/L	10.0		117	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	10.1	0.50	µg/L	10.0		101	70-130			
1,2-Dibromoethane (EDB)	12.4	0.50	µg/L	10.0		124	70-130			
Dibromomethane	12.6	0.50	µg/L	10.0		126	70-130			
1,2-Dichlorobenzene	11.7	0.50	µg/L	10.0		117	70-130			
1,3-Dichlorobenzene	12.4	0.50	µg/L	10.0		124	70-130			
1,4-Dichlorobenzene	11.6	0.50	µg/L	10.0		116	70-130			
trans-1,4-Dichloro-2-butene	11.3	2.0	µg/L	10.0		113	70-130			
Dichlorodifluoromethane (Freon 12)	8.16	0.50	µg/L	10.0		81.6	70-130			V-05
1,1-Dichloroethane	11.3	0.50	µg/L	10.0		113	70-130			
1,2-Dichloroethane	10.8	0.50	µg/L	10.0		108	70-130			
<b>1,1-Dichloroethylene</b>	13.3	0.50	µg/L	10.0		<b>133</b> *	70-130			L-01
cis-1,2-Dichloroethylene	10.8	0.50	µg/L	10.0		108	70-130			
trans-1,2-Dichloroethylene	11.3	1.0	µg/L	10.0		113	70-130			
1,2-Dichloropropane	11.7	0.50	µg/L	10.0		117	70-130			
1,3-Dichloropropane	11.1	0.50	µg/L	10.0		111	70-130			
2,2-Dichloropropane	12.9	0.50	µg/L	10.0		129	70-130			
1,1-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130			
cis-1,3-Dichloropropene	11.6	0.50	µg/L	10.0		116	70-130			
trans-1,3-Dichloropropene	11.9	0.50	µg/L	10.0		119	70-130			
Hexachlorobutadiene	12.9	0.60	µg/L	10.0		129	70-130			V-35
Methylene Chloride	10.8	5.0	µg/L	10.0		108	70-130			
1,1,1,2-Tetrachloroethane	12.3	0.50	µg/L	10.0		123	70-130			
1,1,1,2,2-Tetrachloroethane	12.8	0.50	µg/L	10.0		128	70-130			
<b>Tetrachloroethylene</b>	13.2	1.0	µg/L	10.0		<b>132</b> *	70-130			L-01
1,2,3-Trichlorobenzene	9.05	0.50	µg/L	10.0		90.5	70-130			
1,2,4-Trichlorobenzene	10.4	0.50	µg/L	10.0		104	70-130			
1,1,1-Trichloroethane	11.9	0.50	µg/L	10.0		119	70-130			
1,1,2-Trichloroethane	12.4	0.50	µg/L	10.0		124	70-130			
Trichloroethylene	12.4	1.0	µg/L	10.0		124	70-130			
Trichlorofluoromethane (Freon 11)	12.1	2.0	µg/L	10.0		121	70-130			
1,2,3-Trichloropropane	9.31	0.50	µg/L	10.0		93.1	70-130			
<b>1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)</b>	14.5	0.50	µg/L	10.0		<b>145</b> *	70-130			L-01
Vinyl Chloride	11.1	1.0	µg/L	10.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.6		µg/L	25.0		90.4	70-130			
Surrogate: Toluene-d8	25.1		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		97.8	70-130			

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209970 - SW-846 5035</b>										
<b>Blank (B209970-BLK1)</b>										
Prepared & Analyzed: 08/10/18										
Bromobenzene	ND	0.10	mg/Kg							
Bromochloromethane	ND	0.10	mg/Kg							
Bromodichloromethane	ND	0.10	mg/Kg							
Bromoform	ND	0.10	mg/Kg							
Bromomethane	ND	0.50	mg/Kg							
Carbon Tetrachloride	ND	0.10	mg/Kg							
Chlorobenzene	ND	0.10	mg/Kg							
Chlorodibromomethane	ND	0.050	mg/Kg							
Chloroethane	ND	1.0	mg/Kg							
Chloroform	ND	0.20	mg/Kg							
Chloromethane	ND	0.50	mg/Kg							
2-Chlorotoluene	ND	0.10	mg/Kg							
4-Chlorotoluene	ND	0.10	mg/Kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.10	mg/Kg							
1,2-Dibromoethane (EDB)	ND	0.050	mg/Kg							
Dibromomethane	ND	0.10	mg/Kg							
1,2-Dichlorobenzene	ND	0.10	mg/Kg							
1,3-Dichlorobenzene	ND	0.10	mg/Kg							
1,4-Dichlorobenzene	ND	0.10	mg/Kg							
trans-1,4-Dichloro-2-butene	ND	0.20	mg/Kg							L-03, V-05
Dichlorodifluoromethane (Freon 12)	ND	1.0	mg/Kg							
1,1-Dichloroethane	ND	0.10	mg/Kg							
1,2-Dichloroethane	ND	0.10	mg/Kg							
1,1-Dichloroethylene	ND	0.20	mg/Kg							
cis-1,2-Dichloroethylene	ND	0.10	mg/Kg							
trans-1,2-Dichloroethylene	ND	0.10	mg/Kg							
1,2-Dichloropropane	ND	0.10	mg/Kg							
1,3-Dichloropropane	ND	0.050	mg/Kg							
2,2-Dichloropropane	ND	0.10	mg/Kg							V-05
1,1-Dichloropropene	ND	0.10	mg/Kg							
cis-1,3-Dichloropropene	ND	0.050	mg/Kg							
trans-1,3-Dichloropropene	ND	0.050	mg/Kg							
Hexachlorobutadiene	ND	0.10	mg/Kg							
Methylene Chloride	ND	1.0	mg/Kg							
1,1,1,2-Tetrachloroethane	ND	0.10	mg/Kg							
1,1,2,2-Tetrachloroethane	ND	0.050	mg/Kg							
Tetrachloroethylene	ND	0.10	mg/Kg							
1,2,3-Trichlorobenzene	ND	0.10	mg/Kg							
1,2,4-Trichlorobenzene	ND	0.10	mg/Kg							
1,3,5-Trichlorobenzene	ND	0.10	mg/Kg							
1,1,1-Trichloroethane	ND	0.10	mg/Kg							
1,1,2-Trichloroethane	ND	0.10	mg/Kg							
Trichloroethylene	ND	0.10	mg/Kg							
Trichlorofluoromethane (Freon 11)	ND	0.50	mg/Kg							
1,2,3-Trichloropropane	ND	0.10	mg/Kg							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	mg/Kg							
Vinyl Chloride	ND	0.50	mg/Kg							
Surrogate: 1,2-Dichloroethane-d4	0.0223		mg/Kg	0.0250		89.4	70-130			
Surrogate: Toluene-d8	0.0246		mg/Kg	0.0250		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0245		mg/Kg	0.0250		98.0	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209970 - SW-846 5035</b>										
<b>LCS (B209970-BS1)</b>										
Prepared & Analyzed: 08/10/18										
Bromobenzene	0.0134	0.0023	mg/Kg	0.0113		118	70-130			
Bromochloromethane	0.0143	0.0023	mg/Kg	0.0113		127	70-130			
Bromodichloromethane	0.0118	0.0023	mg/Kg	0.0113		104	70-130			
Bromoform	0.0126	0.0023	mg/Kg	0.0113		111	70-130			
Bromomethane	0.00552	0.011	mg/Kg	0.0113		48.7	40-130			†
Carbon Tetrachloride	0.0125	0.0023	mg/Kg	0.0113		110	70-130			
Chlorobenzene	0.0134	0.0023	mg/Kg	0.0113		118	70-130			
Chlorodibromomethane	0.0118	0.0011	mg/Kg	0.0113		104	70-130			
Chloroethane	0.0106	0.023	mg/Kg	0.0113		93.6	70-130			
Chloroform	0.0128	0.0045	mg/Kg	0.0113		113	70-130			
Chloromethane	0.00937	0.011	mg/Kg	0.0113		82.7	70-130			
2-Chlorotoluene	0.0131	0.0023	mg/Kg	0.0113		115	70-130			
4-Chlorotoluene	0.0132	0.0023	mg/Kg	0.0113		117	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00984	0.0023	mg/Kg	0.0113		86.8	70-130			
1,2-Dibromoethane (EDB)	0.0126	0.0011	mg/Kg	0.0113		112	70-130			
Dibromomethane	0.0136	0.0023	mg/Kg	0.0113		120	70-130			
1,2-Dichlorobenzene	0.0123	0.0023	mg/Kg	0.0113		109	70-130			
1,3-Dichlorobenzene	0.0128	0.0023	mg/Kg	0.0113		113	70-130			
1,4-Dichlorobenzene	0.0124	0.0023	mg/Kg	0.0113		110	70-130			
<b>trans-1,4-Dichloro-2-butene</b>	0.00791	0.0045	mg/Kg	0.0113		<b>69.8</b>	* 70-130			V-05, L-03
Dichlorodifluoromethane (Freon 12)	0.00730	0.023	mg/Kg	0.0113		64.4	40-160			V-34 †
1,1-Dichloroethane	0.0128	0.0023	mg/Kg	0.0113		113	70-130			
1,2-Dichloroethane	0.0117	0.0023	mg/Kg	0.0113		104	70-130			
1,1-Dichloroethylene	0.0111	0.0045	mg/Kg	0.0113		97.8	70-130			
cis-1,2-Dichloroethylene	0.0113	0.0023	mg/Kg	0.0113		100	70-130			
trans-1,2-Dichloroethylene	0.0121	0.0023	mg/Kg	0.0113		107	70-130			
1,2-Dichloropropane	0.0131	0.0023	mg/Kg	0.0113		116	70-130			
1,3-Dichloropropane	0.0130	0.0011	mg/Kg	0.0113		114	70-130			
2,2-Dichloropropane	0.00911	0.0023	mg/Kg	0.0113		80.4	70-130			V-05
1,1-Dichloropropene	0.0134	0.0023	mg/Kg	0.0113		118	70-130			
cis-1,3-Dichloropropene	0.0115	0.0011	mg/Kg	0.0113		102	70-130			
trans-1,3-Dichloropropene	0.0116	0.0011	mg/Kg	0.0113		102	70-130			
Hexachlorobutadiene	0.0164	0.0023	mg/Kg	0.0113		145	70-160			
Methylene Chloride	0.00952	0.023	mg/Kg	0.0113		84.0	40-160			†
1,1,1,2-Tetrachloroethane	0.0124	0.0023	mg/Kg	0.0113		110	70-130			
1,1,2,2-Tetrachloroethane	0.0128	0.0011	mg/Kg	0.0113		113	70-130			
Tetrachloroethylene	0.0144	0.0023	mg/Kg	0.0113		127	70-130			
1,2,3-Trichlorobenzene	0.0116	0.0023	mg/Kg	0.0113		103	70-130			
1,2,4-Trichlorobenzene	0.0115	0.0023	mg/Kg	0.0113		102	70-130			
1,3,5-Trichlorobenzene	0.0128	0.0023	mg/Kg	0.0113		113	70-130			
1,1,1-Trichloroethane	0.0120	0.0023	mg/Kg	0.0113		106	70-130			
1,1,2-Trichloroethane	0.0130	0.0023	mg/Kg	0.0113		115	70-130			
Trichloroethylene	0.0134	0.0023	mg/Kg	0.0113		118	70-130			
Trichlorofluoromethane (Freon 11)	0.0102	0.011	mg/Kg	0.0113		90.2	70-130			
1,2,3-Trichloropropane	0.0130	0.0023	mg/Kg	0.0113		115	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0117	0.011	mg/Kg	0.0113		104	70-130			
Vinyl Chloride	0.0110	0.011	mg/Kg	0.0113		97.4	40-130			†
Surrogate: 1,2-Dichloroethane-d4	0.0246		mg/Kg	0.0283		86.8	70-130			
Surrogate: Toluene-d8	0.0278		mg/Kg	0.0283		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.0285		mg/Kg	0.0283		100	70-130			

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**QUALITY CONTROL**

**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B209891 - SW-846 3510C**

**Blank (B209891-BLK1)**

Prepared & Analyzed: 08/09/18

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	1.77		µg/L	2.00		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.85		µg/L	2.00		92.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.53		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.6	30-150			

**Blank (B209891-BLK2)**

Prepared: 08/09/18 Analyzed: 08/10/18

Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Aroclor-1262	ND	0.040	µg/L							
Aroclor-1262 [2C]	ND	0.040	µg/L							
Aroclor-1268	ND	0.040	µg/L							
Aroclor-1268 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	2.16		µg/L	2.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.68		µg/L	2.00		83.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.68		µg/L	2.00		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.45		µg/L	2.00		72.3	30-150			

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**QUALITY CONTROL**

**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209891 - SW-846 3510C</b>										
<b>LCS (B209891-BS1)</b>										
Prepared & Analyzed: 08/09/18										
Aroclor-1016	0.42	0.20	µg/L	0.500		84.8	40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		95.4	40-140			
Aroclor-1260	0.45	0.20	µg/L	0.500		90.2	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		92.7	40-140			
Surrogate: Decachlorobiphenyl	1.74		µg/L	2.00		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.81		µg/L	2.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.53		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/L	2.00		80.5	30-150			
<b>LCS Dup (B209891-BSD1)</b>										
Prepared & Analyzed: 08/09/18										
Aroclor-1016	0.42	0.20	µg/L	0.500		83.1	40-140	2.01	20	
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.8	40-140	1.63	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		89.4	40-140	0.947	20	
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.8	40-140	0.950	20	
Surrogate: Decachlorobiphenyl	1.75		µg/L	2.00		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.83		µg/L	2.00		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.46		µg/L	2.00		72.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.56		µg/L	2.00		77.8	30-150			
<b>Batch B209916 - SW-846 3580A</b>										
<b>Blank (B209916-BLK1)</b>										
Prepared & Analyzed: 08/09/18										
Aroclor-1016	ND	0.98	mg/Kg							
Aroclor-1016 [2C]	ND	0.98	mg/Kg							
Aroclor-1221	ND	0.98	mg/Kg							
Aroclor-1221 [2C]	ND	0.98	mg/Kg							
Aroclor-1232	ND	0.98	mg/Kg							
Aroclor-1232 [2C]	ND	0.98	mg/Kg							
Aroclor-1242	ND	0.98	mg/Kg							
Aroclor-1242 [2C]	ND	0.98	mg/Kg							
Aroclor-1248	ND	0.98	mg/Kg							
Aroclor-1248 [2C]	ND	0.98	mg/Kg							
Aroclor-1254	ND	0.98	mg/Kg							
Aroclor-1254 [2C]	ND	0.98	mg/Kg							
Aroclor-1260	ND	0.98	mg/Kg							
Aroclor-1260 [2C]	ND	0.98	mg/Kg							
Aroclor-1262	ND	0.98	mg/Kg							
Aroclor-1262 [2C]	ND	0.98	mg/Kg							
Aroclor-1268	ND	0.98	mg/Kg							
Aroclor-1268 [2C]	ND	0.98	mg/Kg							
Surrogate: Decachlorobiphenyl	8.82		mg/Kg	9.77		90.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.22		mg/Kg	9.77		84.1	30-150			
Surrogate: Tetrachloro-m-xylene	8.49		mg/Kg	9.77		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.36		mg/Kg	9.77		85.6	30-150			

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**QUALITY CONTROL**

**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209916 - SW-846 3580A</b>										
<b>LCS (B209916-BS1)</b>										
Prepared & Analyzed: 08/09/18										
Aroclor-1260	5.7	0.95	mg/Kg	4.71		121 *	85-115			L-11
Aroclor-1260 [2C]	5.3	0.95	mg/Kg	4.71		112	85-115			
Surrogate: Decachlorobiphenyl	8.42		mg/Kg	9.51		88.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	7.86		mg/Kg	9.51		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	8.06		mg/Kg	9.51		84.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	7.96		mg/Kg	9.51		83.7	30-150			
<b>LCS Dup (B209916-BSD1)</b>										
Prepared & Analyzed: 08/09/18										
Aroclor-1260	5.9	0.96	mg/Kg	4.67		127 *	85-115	3.89	30	L-11
Aroclor-1260 [2C]	5.5	0.96	mg/Kg	4.67		117 *	85-115	4.03	30	L-07
Surrogate: Decachlorobiphenyl	8.66		mg/Kg	9.62		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	8.08		mg/Kg	9.62		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	8.37		mg/Kg	9.62		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	8.24		mg/Kg	9.62		85.7	30-150			
<b>Batch B210043 - SW-846 3510C</b>										
<b>Blank (B210043-BLK1)</b>										
Prepared: 08/10/18 Analyzed: 08/13/18										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	2.38		µg/L	2.00		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.49		µg/L	2.00		125	30-150			
Surrogate: Tetrachloro-m-xylene	2.00		µg/L	2.00		99.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.08		µg/L	2.00		104	30-150			
<b>LCS (B210043-BS1)</b>										
Prepared: 08/10/18 Analyzed: 08/13/18										
Aroclor-1016	0.51	0.20	µg/L	0.500		103	40-140			
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	40-140			
Aroclor-1260	0.57	0.20	µg/L	0.500		114	40-140			
Aroclor-1260 [2C]	0.58	0.20	µg/L	0.500		117	40-140			
Surrogate: Decachlorobiphenyl	2.37		µg/L	2.00		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.48		µg/L	2.00		124	30-150			
Surrogate: Tetrachloro-m-xylene	1.99		µg/L	2.00		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.09		µg/L	2.00		105	30-150			

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**QUALITY CONTROL**

**Polychlorinated Biphenyls By GC/ECD - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B210043 - SW-846 3510C</b>										
<b>LCS Dup (B210043-BSD1)</b>										
					Prepared: 08/10/18 Analyzed: 08/13/18					
Aroclor-1016	0.58	0.20	µg/L	0.500		116	40-140	12.0	20	
Aroclor-1016 [2C]	0.62	0.20	µg/L	0.500		125	40-140	9.17	20	
Aroclor-1260	0.57	0.20	µg/L	0.500		114	40-140	0.380	20	
Aroclor-1260 [2C]	0.60	0.20	µg/L	0.500		119	40-140	1.83	20	
Surrogate: Decachlorobiphenyl	2.37		µg/L	2.00		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.48		µg/L	2.00		124	30-150			
Surrogate: Tetrachloro-m-xylene	1.96		µg/L	2.00		97.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.06		µg/L	2.00		103	30-150			

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**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209884 - SW-846 3540C</b>										
<b>Blank (B209884-BLK1)</b>										
Prepared: 08/09/18 Analyzed: 08/10/18										
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	1.19		µg/Wipe	2.00		59.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.15		µg/Wipe	2.00		57.7	30-150			
Surrogate: Tetrachloro-m-xylene	1.21		µg/Wipe	2.00		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.23		µg/Wipe	2.00		61.7	30-150			
<b>LCS (B209884-BS1)</b>										
Prepared: 08/09/18 Analyzed: 08/10/18										
Aroclor-1016	0.48	0.20	µg/Wipe	0.500		97.0	40-140			
Aroclor-1016 [2C]	0.46	0.20	µg/Wipe	0.500		92.4	40-140			
Aroclor-1260	0.43	0.20	µg/Wipe	0.500		85.0	40-140			
Aroclor-1260 [2C]	0.41	0.20	µg/Wipe	0.500		82.7	40-140			
Surrogate: Decachlorobiphenyl	1.60		µg/Wipe	2.00		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.57		µg/Wipe	2.00		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.69		µg/Wipe	2.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.72		µg/Wipe	2.00		85.9	30-150			
<b>LCS Dup (B209884-BSD1)</b>										
Prepared: 08/09/18 Analyzed: 08/10/18										
Aroclor-1016	0.46	0.20	µg/Wipe	0.500		92.3	40-140	4.89	30	
Aroclor-1016 [2C]	0.41	0.20	µg/Wipe	0.500		82.0	40-140	12.0	30	
Aroclor-1260	0.41	0.20	µg/Wipe	0.500		81.0	40-140	4.80	30	
Aroclor-1260 [2C]	0.39	0.20	µg/Wipe	0.500		78.1	40-140	5.81	30	
Surrogate: Decachlorobiphenyl	1.58		µg/Wipe	2.00		79.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.52		µg/Wipe	2.00		76.0	30-150			
Surrogate: Tetrachloro-m-xylene	1.58		µg/Wipe	2.00		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.61		µg/Wipe	2.00		80.3	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**TRC-DRUM-COMPOSITE (2-7)**

*SW-846 8082A*

Lab Sample ID: 18H0423-01RE1 Date(s) Analyzed: 08/13/2018 08/13/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.78	
	2	0.000	0.000	0.000	0.90	14.3
Aroclor-1254	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	1.0	12.8
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.94	10.1

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

**TRC-DRUM-GRAB (1)**

Lab Sample ID: 18H0423-02 Date(s) Analyzed: 08/10/2018 08/10/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	2.8	6.9
Aroclor-1254	1	0.000	0.000	0.000	3.2	
	2	0.000	0.000	0.000	3.6	11.8
Aroclor-1260	1	0.000	0.000	0.000	3.0	
	2	0.000	0.000	0.000	3.1	3.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**TRC-DRUM-GRAB (1)**

*SW-846 8082A*

Lab Sample ID: 18H0423-02RE1 Date(s) Analyzed: 08/10/2018 08/10/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	5.3	
	2	0.000	0.000	0.000	4.5	16.3
Aroclor-1254	1	0.000	0.000	0.000	4.8	
	2	0.000	0.000	0.000	5.9	20.6
Aroclor-1260	1	0.000	0.000	0.000	5.1	
	2	0.000	0.000	0.000	5.3	3.9

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

**TRC-SCRABBLER (3) BOTTOM**

Lab Sample ID: 18H0423-05 Date(s) Analyzed: 08/10/2018 08/10/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.58	
	2	0.000	0.000	0.000	0.45	25.2
Aroclor-1254	1	0.000	0.000	0.000	0.30	
	2	0.000	0.000	0.000	0.28	6.9

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*EPA 600 4-81-045*

**TRC-DRUM-GRAB (1)**

Lab Sample ID: 18H0423-16 Date(s) Analyzed: 08/09/2018 08/09/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	2.1	
	2	0.000	0.000	0.000	1.6	27.0
Aroclor-1254	1	0.000	0.000	0.000	1.7	
	2	0.000	0.000	0.000	2.8	48.9
Aroclor-1260	1	0.000	0.000	0.000	1.7	
	2	0.000	0.000	0.000	1.6	6.1

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8082A*

Lab Sample ID:                     B209884-BS1                                          Date(s) Analyzed:           08/10/2018                     08/10/2018          

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	0.48	
	2	0.000	0.000	0.000	0.46	6.3
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.41	4.8

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8082A*

Lab Sample ID:                   B209884-BSD1                                        Date(s) Analyzed:           08/10/2018                     08/10/2018          

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	0.46	
	2	0.000	0.000	0.000	0.41	11.5
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.39	5.0

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

LCS
-----

Lab Sample ID: B209891-BS1 Date(s) Analyzed: 08/09/2018 08/09/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.42	
	2	0.000	0.000	0.000	0.48	13.3
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.46	2.2

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8082A*

Lab Sample ID:                   B209891-BSD1                                        Date(s) Analyzed:           08/09/2018                     08/09/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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	0.42	
	2	0.000	0.000	0.000	0.47	11.2
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.46	2.2

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS

*EPA 600 4-81-045*

Lab Sample ID:                     B209916-BS1                                          Date(s) Analyzed:           08/09/2018                     08/09/2018          

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	5.7	
	2	0.000	0.000	0.000	5.3	7.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**  
*EPA 600 4-81-045*

<b>LCS Dup</b>
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Lab Sample ID:                     B209916-BSD1                                          Date(s) Analyzed:           08/09/2018                     08/09/2018          

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	5.9	
	2	0.000	0.000	0.000	5.5	7.0

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

LCS
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Lab Sample ID:                     B210043-BS1                                          Date(s) Analyzed:           08/13/2018                     08/13/2018          

Instrument ID (1):                     ECD 9                                          Instrument ID (2):                     ECD 9                    

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	0.51	
	2	0.000	0.000	0.000	0.57	11.1
Aroclor-1260	1	0.000	0.000	0.000	0.57	
	2	0.000	0.000	0.000	0.58	1.7

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8082A*

Lab Sample ID:                   B210043-BSD1                                        Date(s) Analyzed:           08/13/2018                     08/13/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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	0.58	
	2	0.000	0.000	0.000	0.62	6.7
Aroclor-1260	1	0.000	0.000	0.000	0.57	
	2	0.000	0.000	0.000	0.60	5.1

**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.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-11	Laboratory fortified blank/laboratory control sample was outside of control limits on the confirmation column, but within control limits on the primary column. All sample results are reported from the column within control criteria.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
RL-02	Elevated reporting limit due to high concentration of non-target compounds. Requested reporting limit not met.
RL-13	Elevated reporting limit due to high concentration of non-target compounds.
S-19	Surrogate recovery is outside of control limits, matrix interference suspected. Reanalysis yielded similar surrogate non-conformance.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
Z-01	Due to LCS/LCSD spike recovery non-conformance on the confirmatory detector, the lower of two results was reported.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b><i>EPA 600 4-81-045 in Oil</i></b>	
Aroclor-1016	MA,NY,ME
Aroclor-1016 [2C]	MA,NY,ME
Aroclor-1221	MA,NY,ME
Aroclor-1221 [2C]	MA,NY,ME
Aroclor-1232	MA,NY,ME
Aroclor-1232 [2C]	MA,NY,ME
Aroclor-1242	MA,NY,ME
Aroclor-1242 [2C]	MA,NY,ME
Aroclor-1248	MA,NY,ME
Aroclor-1248 [2C]	MA,NY,ME
Aroclor-1254	MA,NY,ME
Aroclor-1254 [2C]	MA,NY,ME
Aroclor-1260	MA,NY,ME
Aroclor-1260 [2C]	MA,NY,ME
Aroclor-1262	MA,NY,ME
Aroclor-1262 [2C]	MA,NY,ME
Aroclor-1268	MA,NY,ME
Aroclor-1268 [2C]	MA,NY,ME
<b><i>SW-846 8082A in Soil</i></b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<b>SW-846 8082A in Soil</b>	
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NY,NC,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<b>SW-846 8082A in Water</b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
<b>SW-846 8260C in Water</b>	
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY
1,2-Dibromoethane (EDB)	NY
Dibromomethane	CT,NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>SW-846 8260C in Water</i>	
trans-1,4-Dichloro-2-butene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	CT,NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	CT,NY,ME
2,2-Dichloropropane	CT,NH,NY,ME
1,1-Dichloropropene	CT,NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	CT,NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	CT,NY
Vinyl Chloride	CT,NH,NY,ME

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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

39 Spruce Street  
East Longmeadow, MA 01028

18H0423

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



Company Name: **MEK**  
 Address: 21 Griffin Rd N Winsted, CT  
 Phone: 860-298-7692  
 Project Name: Station B Scabbling  
 Project Location: 510 Gnd Ave New Haven, CT  
 Project Number: 263951 over 17, error 1  
 Project Manager: Carl Stoffer 860-298-6231  
 Con-Test Quote Name/Number: Direct Invoice to UIL  
 Invoice Recipient: Shawn Crosbie (UIL) 203-926-4995  
 Sampled By: Matt Blumstein (TRC)

Requested Turnaround Time  
 7-Day  10-Day   
 Due Date: \_\_\_\_\_  
 Rush Approval Required  
 1-Day  3-Day   
 2-Day  4-Day   
 Data Delivery  
 Format: PDF  EXCEL   
 Other: \_\_\_\_\_  
 CLP Like Data Pkg Required:   
 Email To: CSoffer@trcsolutions.com  
 Fax To #: \_\_\_\_\_

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	TRC-DRUM-COMPOSITE(27)	8/7/18 1310	NA	X		WW	U
02	TRC-DRUM-GAB (1)	8/7/18 1230	NA	X	X	WW	U
03	TRC-SCABBLER (3) LEFT	8/8/18 1230				WIFE	U
04	TRC-SCABBLER (3) RIGHT	8/8/18 1233					
05	TRC-SCABBLER (3) BOTTOM	8/8/18 1240					
06	TRC-SCABBLER (3) CONTROL	8/8/18 1245					
07	TRC-SCABBLER (4) LEFT	8/8/18 1250					
08	TRC-SCABBLER (4) RIGHT	8/8/18 1255					
09	TRC-SCABBLER (4) BOTTOM	8/8/18 1300					
10	TRC-NEG-AIR - LEFT	8/8/18 1305					

Comments: Direct Invoice to Shawn.Crosbie@UIL.net.com  
 NO units of measurement with sample ID's  
 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

Relinquished by: (signature) *Matthew Blumstein* Date/Time: 8/8/18/1415  
 Received by: (signature) \_\_\_\_\_ Date/Time: 8/8/18 8:01  
 Relinquished by: (signature) \_\_\_\_\_ Date/Time: 8/8/18 8:01  
 Received by: (signature) \_\_\_\_\_ Date/Time: 8/8/18 2:19  
 Inquired by: (signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Special Requirements  
 MA MCP Required   
 MCP Certification Form Required   
 CT RCP Required   
 RCP Certification Form Required   
 MA State DW Required   
 PWSID # \_\_\_\_\_

Detection Limit Requirements  
 MA   
 CT   
 GA PCBs > 1ppm  
 Most Significant Contaminant

Project Entry  
 Government  Municipality  MWRA  Other   
 Federal  City  School  WRTA  Chromatogram   
 City  Brownfield  MBTA  AIHA-LAP, LLC

PCB ONLY  
 Soxhlet  
 Non Soxhlet



1840423

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



Company Name: **TRC**  
Address: **21 Gt. Pk. Rd N Windsor, CT**  
Phone: **860-298-9672**  
Project Name: **Station B Scabbling**  
Project Location: **510 Grand Ave New Haven, CT**  
Project Number: **26395100001300001**  
Project Manager: **Carl Stepler 860-298-6231**  
Con-Test Quote Name/Number: **Direct Invoice to UIL**  
Invoice Recipient: **Shawn Crosbie (UIL) 803-226-4585**  
Sampled By: **Matt Blumstein (TRC)**

Requested Turnaround Time:  
7-Day  10-Day   
Due Date: \_\_\_\_\_  
Rush Approval Required:  
1-Day  3-Day   
2-Day  4-Day   
Data Delivery:  
Format: PDF  EXCEL   
Other: \_\_\_\_\_  
CLP Like Data Pkg Required:   
Email To: **CStepler@trcsolabs.com**  
Fax To #: \_\_\_\_\_

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	TRC-NEG-AIR - RIGHT	8/8/18 1310	NA			WIFE	U
12	TRC-NEG-AIR- BOTTOM	8/8/18 1315					
13	TRC-VAC- LEFT	8/8/18 1320					
14	TRC-WAC - RIGHT	8/8/18 1325					
15	TRC-VAC - BOTTOM	8/8/18 1330					

Comments: Direct Invoice to Shawn Crosbie@UILnet.com

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

Requested by (signature): *Matt Blumstein*  
Date/Time: 8/8/18/1415  
Received by (signature): *Shawn Crosbie*  
Date/Time: 8/9/18/2:21  
Relinquished by (signature): *Matt Blumstein*  
Date/Time: 8/8/18/1415  
Date/Time: 8/8/18/1415  
Date/Time: 8/8/18/2119  
Date/Time: \_\_\_\_\_  
Date/Time: \_\_\_\_\_

Special Requirements:  
MA MCP Required   
MCP Certification Form Required   
CT RCP Required   
RCP Certification Form Required   
MA State DW Required   
PWSID # \_\_\_\_\_

Project Entry:  
Government  Federal  City   
Municipality  21 J  Brownfield   
MWRA  School  MBTA   
WRTA   
Other:  Chromatogram  AIHA-LAP, LLC

PCB ONLY:  
 Soxhlet  Non Soxhlet



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 TRC  
 Received By SE Date 8/8/18 Time 2119  
 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 # 557 Actual Temp - 2.4  
 By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_  
 Was Custody Seal Intact? N/A Were Samples Tampered with? N/A  
 Was COC Relinquished? T Does Chain Agree With Samples? T  
 Are there broken/leaking/loose caps on any samples? F  
 Is COC in ink/ Legible? T Were samples received within holding time? T  
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
 Project T ID's T Collection Dates/Times T  
 Are Sample labels filled out and legible? T  
 Are there Lab to Filters? F Who was notified? \_\_\_\_\_  
 Are there Rushes? T Who was notified? Ray  
 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? N/A Acid \_\_\_\_\_ Base \_\_\_\_\_

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.	4	1 Liter Plastic	16 oz Amb.
HCL-	6	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	

**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:**

\* Headspace in sample #2 vials



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

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

**Client:** TRC Environmental Corporation - CT

**Project Location:** 510 Grand Ave., New Haven, CT

**Project Number:** 18H0423

**Laboratory Sample ID(s):**

18H0423-01 thru 18H0423-16

**Sample Date(s):**

08/07/2018,

08/08/2018

**List RCP Methods Used:**

EPA 600 4-81-045, SW-846 8082A, SW-846 8260C

<b>1</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	VPH and EPH Methods only: Was the VPH and 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"/> N/A
<b>2</b>	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
<b>3</b>	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5A</b>	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5B</b>	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>6</b>	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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in this 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.

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 A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 08/13/18

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

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

August 7, 2018

Carl Stopper  
TRC Environmental Corporation - CT  
21 Griffin Road North  
Windsor, CT 06095

Project Location: 510 Grand Ave., New Haven, CT  
Client Job Number:  
Project Number: 263954.000013.000001  
Laboratory Work Order Number: 18H0183

Enclosed are results of analyses for samples received by the laboratory on August 3, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Meghan E. Kelley". The signature is written in a cursive style with a large, flowing "y" at the end.

Meghan E. Kelley  
Project Manager

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

TRC Environmental Corporation - CT  
 21 Griffin Road North  
 Windsor, CT 06095  
 ATTN: Carl Stopper

REPORT DATE: 8/7/2018

PURCHASE ORDER NUMBER: 4500453258-10

PROJECT NUMBER: 263954.000013.000001

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 18H0183

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

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-C004 (1")	18H0183-01	Product/Solid		SW-846 8082A	
TRC-C005 (1")	18H0183-02	Product/Solid		SW-846 8082A	
TRC-C006 (1")	18H0183-03	Product/Solid		SW-846 8082A	
TRC-C015 (1")	18H0183-04	Product/Solid		SW-846 8082A	
TRC-C008 (1")	18H0183-05	Product/Solid		SW-846 8082A	
TRC-C009 (1")	18H0183-06	Product/Solid		SW-846 8082A	
TRC-C010 (1")	18H0183-07	Product/Solid		SW-846 8082A	
TRC-Saw-Shield-Inside-Left	18H0183-08	Wipe		SW-846 8082A	
TRC-Saw-Shield-Inside-Right	18H0183-09	Wipe		SW-846 8082A	
TRC-Saw-Shield-Body-Outside-Right	18H0183-10	Wipe		SW-846 8082A	
TRC-Saw-Control	18H0183-11	Wipe		SW-846 8082A	

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

18H0183-01[TRC-C004 (1')]

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

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



Lisa A. Worthington  
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-C004 (1')

Sampled: 8/2/2018 09:45

Sample ID: 18H0183-01

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1248 [2]	0.17	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1254 [2]	0.18	0.083	mg/Kg	1	P-01	SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1260 [2]	0.11	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:41	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	85.6		30-150				8/6/18 19:41		
Decachlorobiphenyl [2]	89.2		30-150				8/6/18 19:41		
Tetrachloro-m-xylene [1]	86.4		30-150				8/6/18 19:41		
Tetrachloro-m-xylene [2]	82.7		30-150				8/6/18 19:41		

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-C005 (1")

Sampled: 8/2/2018 09:50

Sample ID: 18H0183-02

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1221 [1]	ND	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1232 [1]	ND	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1242 [1]	ND	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1248 [2]	0.098	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1254 [2]	0.085	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1260 [1]	ND	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1262 [1]	ND	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Aroclor-1268 [1]	ND	0.070	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 19:59	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	95.4		30-150				8/6/18 19:59		
Decachlorobiphenyl [2]	100		30-150				8/6/18 19:59		
Tetrachloro-m-xylene [1]	96.9		30-150				8/6/18 19:59		
Tetrachloro-m-xylene [2]	92.4		30-150				8/6/18 19:59		

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Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-C006 (1")

Sampled: 8/2/2018 09:55

Sample ID: 18H0183-03

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1221 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1232 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1242 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1248 [1]	0.12	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1254 [2]	0.095	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1260 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1262 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Aroclor-1268 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:16	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	87.0		30-150				8/6/18 20:16		
Decachlorobiphenyl [2]	90.6		30-150				8/6/18 20:16		
Tetrachloro-m-xylene [1]	87.8		30-150				8/6/18 20:16		
Tetrachloro-m-xylene [2]	83.7		30-150				8/6/18 20:16		

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Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-C015 (1")

Sampled: 8/2/2018 10:00

Sample ID: 18H0183-04

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1221 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1232 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1242 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1248 [1]	0.19	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1254 [2]	0.14	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1260 [2]	0.082	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1262 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Aroclor-1268 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:34	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	87.2		30-150				8/6/18 20:34		
Decachlorobiphenyl [2]	89.6		30-150				8/6/18 20:34		
Tetrachloro-m-xylene [1]	84.3		30-150				8/6/18 20:34		
Tetrachloro-m-xylene [2]	79.8		30-150				8/6/18 20:34		

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Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-C008 (1")

Sampled: 8/3/2018 09:00

Sample ID: 18H0183-05

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 20:52	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.6	30-150					8/6/18 20:52	
Decachlorobiphenyl [2]		95.8	30-150					8/6/18 20:52	
Tetrachloro-m-xylene [1]		84.7	30-150					8/6/18 20:52	
Tetrachloro-m-xylene [2]		80.5	30-150					8/6/18 20:52	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-C009 (1")

Sampled: 8/3/2018 09:05

Sample ID: 18H0183-06

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:10	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		98.0	30-150					8/6/18 21:10	
Decachlorobiphenyl [2]		102	30-150					8/6/18 21:10	
Tetrachloro-m-xylene [1]		86.5	30-150					8/6/18 21:10	
Tetrachloro-m-xylene [2]		81.8	30-150					8/6/18 21:10	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-C010 (1")

Sampled: 8/3/2018 09:10

Sample ID: 18H0183-07

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/4/18	8/6/18 21:28	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		106	30-150					8/6/18 21:28	
Decachlorobiphenyl [2]		111	30-150					8/6/18 21:28	
Tetrachloro-m-xylene [1]		93.3	30-150					8/6/18 21:28	
Tetrachloro-m-xylene [2]		88.0	30-150					8/6/18 21:28	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-Saw-Shield-Inside-Left

Sampled: 8/3/2018 10:30

Sample ID: 18H0183-08

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	8/4/18	8/7/18 0:51	TG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 0:51	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					8/7/18 0:51	
Decachlorobiphenyl [2]		109	30-150					8/7/18 0:51	
Tetrachloro-m-xylene [1]		93.6	30-150					8/7/18 0:51	
Tetrachloro-m-xylene [2]		97.8	30-150					8/7/18 0:51	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-Saw-Shield-Inside-Right

Sampled: 8/3/2018 10:35

Sample ID: 18H0183-09

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	8/4/18	8/7/18 1:46	TG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 1:46	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		104	30-150					8/7/18 1:46	
Decachlorobiphenyl [2]		112	30-150					8/7/18 1:46	
Tetrachloro-m-xylene [1]		98.0	30-150					8/7/18 1:46	
Tetrachloro-m-xylene [2]		103	30-150					8/7/18 1:46	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-Saw-Shield-Body-Outside-Right

Sampled: 8/3/2018 10:40

Sample ID: 18H0183-10

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	8/4/18	8/7/18 2:03	TG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:03	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					8/7/18 2:03	
Decachlorobiphenyl [2]		110	30-150					8/7/18 2:03	
Tetrachloro-m-xylene [1]		96.4	30-150					8/7/18 2:03	
Tetrachloro-m-xylene [2]		101	30-150					8/7/18 2:03	

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

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 18H0183

Date Received: 8/3/2018

Field Sample #: TRC-Saw-Control

Sampled: 8/3/2018 10:45

Sample ID: 18H0183-11

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	8/4/18	8/7/18 2:21	TG
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/4/18	8/7/18 2:21	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.8	30-150					8/7/18 2:21	
Decachlorobiphenyl [2]		107	30-150					8/7/18 2:21	
Tetrachloro-m-xylene [1]		92.0	30-150					8/7/18 2:21	
Tetrachloro-m-xylene [2]		96.5	30-150					8/7/18 2:21	

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18H0183-01 [TRC-C004 (1')]	B209547	2.42	10.0	08/04/18
18H0183-02 [TRC-C005 (1'')]	B209547	2.85	10.0	08/04/18
18H0183-03 [TRC-C006 (1'')]	B209547	2.82	10.0	08/04/18
18H0183-04 [TRC-C015 (1'')]	B209547	2.55	10.0	08/04/18
18H0183-05 [TRC-C008 (1'')]	B209547	2.21	10.0	08/04/18
18H0183-06 [TRC-C009 (1'')]	B209547	2.36	10.0	08/04/18
18H0183-07 [TRC-C010 (1'')]	B209547	2.14	10.0	08/04/18

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

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
18H0183-08 [TRC-Saw-Shield-Inside-Left]	B209551	1.00	10.0	08/04/18
18H0183-09 [TRC-Saw-Shield-Inside-Right]	B209551	1.00	10.0	08/04/18
18H0183-10 [TRC-Saw-Shield-Body-Outside-Right]	B209551	1.00	10.0	08/04/18
18H0183-11 [TRC-Saw-Control]	B209551	1.00	10.0	08/04/18

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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
<b>Batch B209547 - SW-846 3540C</b>										
<b>Blank (B209547-BLK1)</b>										
Prepared: 08/04/18 Analyzed: 08/06/18										
Aroclor-1016	ND	0.099	mg/Kg							
Aroclor-1016 [2C]	ND	0.099	mg/Kg							
Aroclor-1221	ND	0.099	mg/Kg							
Aroclor-1221 [2C]	ND	0.099	mg/Kg							
Aroclor-1232	ND	0.099	mg/Kg							
Aroclor-1232 [2C]	ND	0.099	mg/Kg							
Aroclor-1242	ND	0.099	mg/Kg							
Aroclor-1242 [2C]	ND	0.099	mg/Kg							
Aroclor-1248	ND	0.099	mg/Kg							
Aroclor-1248 [2C]	ND	0.099	mg/Kg							
Aroclor-1254	ND	0.099	mg/Kg							
Aroclor-1254 [2C]	ND	0.099	mg/Kg							
Aroclor-1260	ND	0.099	mg/Kg							
Aroclor-1260 [2C]	ND	0.099	mg/Kg							
Aroclor-1262	ND	0.099	mg/Kg							
Aroclor-1262 [2C]	ND	0.099	mg/Kg							
Aroclor-1268	ND	0.099	mg/Kg							
Aroclor-1268 [2C]	ND	0.099	mg/Kg							
Surrogate: Decachlorobiphenyl	0.909		mg/Kg	0.990		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.949		mg/Kg	0.990		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.820		mg/Kg	0.990		82.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.787		mg/Kg	0.990		79.5	30-150			
<b>LCS (B209547-BS1)</b>										
Prepared: 08/04/18 Analyzed: 08/06/18										
Aroclor-1016	0.88	0.099	mg/Kg	0.985		89.0	40-140			
Aroclor-1016 [2C]	0.86	0.099	mg/Kg	0.985		87.6	40-140			
Aroclor-1260	0.82	0.099	mg/Kg	0.985		83.5	40-140			
Aroclor-1260 [2C]	0.90	0.099	mg/Kg	0.985		91.7	40-140			
Surrogate: Decachlorobiphenyl	0.975		mg/Kg	0.985		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.02		mg/Kg	0.985		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.850		mg/Kg	0.985		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.817		mg/Kg	0.985		82.9	30-150			
<b>LCS Dup (B209547-BSD1)</b>										
Prepared: 08/04/18 Analyzed: 08/06/18										
Aroclor-1016	0.82	0.096	mg/Kg	0.957		85.7	40-140	6.68	30	
Aroclor-1016 [2C]	0.83	0.096	mg/Kg	0.957		86.7	40-140	3.98	30	
Aroclor-1260	0.76	0.096	mg/Kg	0.957		79.9	40-140	7.31	30	
Aroclor-1260 [2C]	0.84	0.096	mg/Kg	0.957		88.1	40-140	7.02	30	
Surrogate: Decachlorobiphenyl	0.904		mg/Kg	0.957		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.950		mg/Kg	0.957		99.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.808		mg/Kg	0.957		84.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.776		mg/Kg	0.957		81.1	30-150			

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**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B209551 - SW-846 3540C</b>										
<b>Blank (B209551-BLK1)</b>										
Prepared: 08/04/18 Analyzed: 08/06/18										
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	1.99		µg/Wipe	2.00		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.13		µg/Wipe	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	1.87		µg/Wipe	2.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.98		µg/Wipe	2.00		99.2	30-150			
<b>LCS (B209551-BS1)</b>										
Prepared: 08/04/18 Analyzed: 08/06/18										
Aroclor-1016	0.49	0.20	µg/Wipe	0.500		97.1	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/Wipe	0.500		94.0	40-140			
Aroclor-1260	0.44	0.20	µg/Wipe	0.500		88.6	40-140			
Aroclor-1260 [2C]	0.47	0.20	µg/Wipe	0.500		94.2	40-140			
Surrogate: Decachlorobiphenyl	2.05		µg/Wipe	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.19		µg/Wipe	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	1.92		µg/Wipe	2.00		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.02		µg/Wipe	2.00		101	30-150			
<b>LCS Dup (B209551-BSD1)</b>										
Prepared: 08/04/18 Analyzed: 08/06/18										
Aroclor-1016	0.48	0.20	µg/Wipe	0.500		95.4	40-140	1.81	30	
Aroclor-1016 [2C]	0.49	0.20	µg/Wipe	0.500		98.0	40-140	4.12	30	
Aroclor-1260	0.45	0.20	µg/Wipe	0.500		90.4	40-140	2.07	30	
Aroclor-1260 [2C]	0.48	0.20	µg/Wipe	0.500		96.7	40-140	2.64	30	
Surrogate: Decachlorobiphenyl	2.08		µg/Wipe	2.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	2.23		µg/Wipe	2.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	1.93		µg/Wipe	2.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	2.04		µg/Wipe	2.00		102	30-150			

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

TRC-C004 (1')

*SW-846 8082A*

Lab Sample ID: 18H0183-01 Date(s) Analyzed: 08/06/2018 08/06/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.18	48.3
Aroclor-1260	1	0.000	0.000	0.000	0.098	
	2	0.000	0.000	0.000	0.11	11.5

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

TRC-C005 (1")

*SW-846 8082A*

Lab Sample ID: 18H0183-02 Date(s) Analyzed: 08/06/2018 08/06/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.096	
	2	0.000	0.000	0.000	0.098	2.1

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

**TRC-C006 (1")**

Lab Sample ID: 18H0183-03 Date(s) Analyzed: 08/06/2018 08/06/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	8.0
Aroclor-1254	1	0.000	0.000	0.000	0.085	
	2	0.000	0.000	0.000	0.095	11.1

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

<b>TRC-C015 (1")</b>
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Lab Sample ID: 18H0183-04 Date(s) Analyzed: 08/06/2018 08/06/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.18	5.4
Aroclor-1254	1	0.000	0.000	0.000	0.10	
	2	0.000	0.000	0.000	0.14	33.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8082A*

Lab Sample ID:                     B209547-BS1                                          Date(s) Analyzed:           08/06/2018                     08/06/2018          

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.86	2.3
Aroclor-1260	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.90	9.3

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

**LCS Dup**

*SW-846 8082A*

Lab Sample ID:                   B209547-BSD1                                        Date(s) Analyzed:           08/06/2018                     08/06/2018          

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.82	
	2	0.000	0.000	0.000	0.83	1.2
Aroclor-1260	1	0.000	0.000	0.000	0.76	
	2	0.000	0.000	0.000	0.84	10.0

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

<b>LCS</b>
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*SW-846 8082A*

Lab Sample ID:                   B209551-BS1                                        Date(s) Analyzed:           08/06/2018                     08/06/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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	0.49	
	2	0.000	0.000	0.000	0.47	4.2
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.47	6.6

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

*SW-846 8082A*

Lab Sample ID:                   B209551-BSD1                                        Date(s) Analyzed:           08/06/2018                     08/06/2018          

Instrument ID (1):                   ECD 9                                        Instrument ID (2):                   ECD 9                  

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	0.48	
	2	0.000	0.000	0.000	0.49	2.1
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.48	6.5

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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.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

**CERTIFICATIONS**

**Certified Analyses included in this Report**

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

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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	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019





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 TRC

Received By ESD Date 8-3-18 Time 19:03

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 # 537 Actual Temp -3.8  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

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

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_

Are there Rushes? T Who was notified? R44

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
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	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:** TRC Environmental Corporation - CT

**Project Location:** 510 Grand Ave., New Haven, CT

**Project Number:** 18H0183

**Laboratory Sample ID(s):**

**Sample Date(s):**

18H0183-01 thru 18H0183-11

08/02/2018,

08/03/2018

**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?	<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	VPH and EPH Methods only: Was the VPH and 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"/> 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)?	<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"/> N/A
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
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<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 this 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."

Lisa A. Worthington

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:**

*Lisa A. Worthington*

**Position:** Project Manager

**Printed Name:** Lisa A. Worthington

**Date:** 08/07/18

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

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

## **APPENDIX E**

# **Clean Harbors Health and Safety Plan**

**SITE SPECIFIC HEALTH AND SAFETY PLAN**

**Prepared For:**

**United Illuminating**

**Prepared By:**

**Clean Harbors Environmental Services, Inc.**

**Date: 04-May-2018**

**Project No.:**

**Prepared By:**

**Jon Menti  
Health and Safety Manager**

**Reviewed By:**

**Thomas B. Hagadorn  
Divisional Health and Safety  
General Manager Field Services**



**SITE HEALTH AND SAFETY PLAN**

SITE NAME: English Station, Station B

SITE ADDRESS 532 Grand Ave, New Haven CT

PLAN DATE: 29-May-2018



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# **SITE HEALTH AND SAFETY PLAN**

## **INTRODUCTION:**

This Site Health and Safety Plan is designed to establish policies and procedures for protecting the health and safety of Clean Harbors' employees during operations associated with emergency response and remediation activities.

Due to the unpredictable and hazardous nature of these operations, it is impossible to identify, evaluate and control all possible hazards. Strict adherence to this plan will reduce, not eliminate, the potential for injury. Therefore, Clean Harbors, Inc. cannot and does not guarantee the health and safety of on-site personnel. It is the responsibility of on-site personnel to report all potential hazards to the Project Manager and Site Health and Safety Representative.

## **1.0 CLEAN HARBORS HEALTH AND SAFETY PROGRAM**

Clean Harbors, Inc. (CHI) has developed an extensive program to ensure the health and safety of all employees as well as the public. The goal of the health and safety program is to minimize the risk of illness, injury or environmental perturbation during site evaluation and hazardous waste cleanup. Clean Harbors' Health and Safety Program provides the basis for the site-specific health and safety plan that is developed for each hazardous waste remedial operation. Routine activities are also accomplished through the implementation of Clean Harbors' standardized health and safety program. These programs include Hazard Communication; confined Space Entry; Respiratory Protection; Contingency/Spill Control (Pending); Drum Handling (Pending) and Tank Removal (Pending) among others. Copies of these programs are available upon request to the Manager of Occupational Health and Safety.

## **2.0 HEALTH AND SAFETY DESIGNATIONS**

The following briefly describes Clean Harbors, Inc. Health and Safety designations, and the general qualifications and responsibilities associated with each position.

### **2.1 Manager of Environmental Health and Safety**

The Manager of Environmental Health and Safety will have overall responsibility for the development and implementation of the Site Health and Safety Plan. If revisions in the Site Health and Safety Plan become necessary due to changes in site conditions or operations, the proposed revisions will be presented to the Manager of Environmental Health and Safety for review and final approval before any revisions will be implemented on site.

## 2.2 Site Health and Safety Representative

### 2.2.1 Qualifications

As a minimum, the Site Health and Safety Representative (SHSR) will possess the following qualifications.

- a) One-year experience in chemical or hazardous wastes industry and/or an advanced degree in industrial hygiene or occupational safety.
- b) Training in basic first aid and CPR.
- c) Demonstrable knowledge of proper air monitoring techniques and of proper application, use, and limitations of field monitoring equipment.
- d) Demonstrated expertise in use and limitations of personal protective equipment in field activities.

### 2.2.2 Responsibilities

The Site Health and Safety Representative (SHSR) will be responsible for the on-site implementation and enforcement of the Site Health and Safety Plan. Additionally, the responsibilities will include.

- a) Supervision of site sampling and monitoring.
- b) Implementation of site air monitoring program.
- c) Supervision and evaluation of site decontamination procedures.
- d) Determination of appropriate levels of personnel protection.
- e) In consultation with the Project Manager, the SHSR will delineate specific work zones, (i.e., Exclusion Zone, Contamination Reduction Zone, and Support Zone), to maintain site integrity and personnel safety.
- f) Supervise monitoring and evaluation of the site and environmental conditions, as well as, work activities to ensure the health and safety of on-site personnel.
- g) Ensure daily health and safety meetings are conducted.
- h) Report to Manager, Environmental Health and Safety, (on a regular basis), as to the status of operations, additional hazards encountered and requested changes in Site Specific Health and Safety Plan.
- i) Continually evaluate the effectiveness of the Site Health and Safety plan and advise the Project Manager of any potential deficiencies in the site health and safety plan that must be addressed for operations to be continued.
- j) To stop all site activities that poses an immediate threat to the health or safety of on-site personnel or the surrounding community.

### 2.3 Site Health and Safety Associate

The Site Health and Safety Associate, (SHSA), shall report to the Site Health and Safety Representative and shall assume all routine, on-site health and safety responsibilities, in the absence of the Site Health and Safety Representative. If emergency conditions arise or operational changes occur or are anticipated, (e.g., work practices are altered, site conditions change), the SHSA shall contact the Site Health and Safety Representative immediately.

The Project Manager, in consultation with the Site Health and Safety Representative shall designate the Site Health and Safety Associate. The Manager, Occupational Health and Safety shall be contacted and approve all SHSA appointments.

The Site Health and Safety Associate shall report all changes in site conditions and/or potential hazardous operations to the Site Health and Safety Representative immediately.

### **3.0 MEDICAL SURVEILLANCE**

Every Clean Harbors employee whose work entails potential exposure to hazardous materials or environments must take part in a comprehensive Medical Monitoring Program (MMP). Before assignment to an emergency response crew or remediation site, each Clean Harbors employee must complete a medical screening and surveillance examination. This information is used to establish the present medical status of the individual and can be used to assess possible future exposures in the work environment. The following diagnostic tests are performed as part of this examination:

- Blood count and differentials
- SMA 25 (screen for liver and kidney function)
- Complete urinalysis including sedimentation
- Baseline chest X-ray
- Electrocardiogram and pulmonary function test
- Audiometric and visual activity evaluation

Under some circumstances, the examining physician may request the following tests:

- Sperm count (may include mobility)
- Sputum cytology
- Proctosigmoidoscopy
- Laryngoscope
- Liver scans
- Tomometry
- Hematocult

During the physical examination, the physician pays special attention to the individual's ability to wear negative-pressure air purifying respirators and self-contained breathing apparatus (SCBA) under working conditions. It is at this point in the examination when the physician must evaluate pulmonary function, cardiovascular status, weight carrying capacity and ability to detect odors.

## 4.0 PERSONNEL TRAINING

### 4.1 Training Program

Clean Harbors provides a comprehensive training program to all employees whose work entails potential exposure to toxic chemicals or hazardous environments. The program is designed to promote safe work practices under simulated hazardous environmental conditions.

Clean Harbors Use in-house experts and a specially designed training facility to conduct all training. Each training program is supervised by Clean Harbors' technical experts who have extensive experience in the field of hazardous waste management and college degrees in environmental fields or technical certification.

The technical training facility of CHI includes a 20,000 square foot building where practical demonstrations are staged. The facility includes: 2,000 gallon tank for confined space entry, exit, and extraction; an SCBA demonstration maze; respirator fit testing rooms; leak and spill response equipment; and decontamination line demonstration.

CHI provides the following training to its employees:

- New hire employees, as well as, all present employees attend a 40-hour program which is designed to fulfill the requirements of OSHA's 29 CFR 1910.120 Hazardous Waste and Emergency Response Standard. Employees also attend mandatory Monthly Training Sessions as part of the annual OSHA Refresher Program.
- Supervisors and Foremen receive additional training (more than 8 hours per year) which is geared toward supervisory responsibilities and skills in handling hazardous materials.
- Drivers receive an additional week of training directed toward the operation of the equipment and materials handling. In addition, employees operating forklifts, Lulls, and heavy equipment have the appropriate licenses and certifications to operate the specified equipment.

All of the above training incorporates Clean Harbors' policies, procedures and philosophy.

In addition to the above training and additional on-site training, CHI also has several courses that supplement the basic program and cover topics such as first aid, CPR, and others. Although CHI does use the in-house expertise to the fullest, outside consultants are sometimes used to augment the program.

### 4.2 Program Monitoring

All training, whether in-house or outside, is monitored by a specially designed database program. All Supervisors receive a monthly report on the progress of each individual employee. At any time, an individual's record can be retrieved to review a complete history of the employee's training.

## 5.0 WORK ZONES

Clean Harbors, Inc. Use a three zone approach in controlling site activities. These zones consist of the Exclusion Zone, Contamination Reduction Zone, and Support Zone. These zones are designated using cones, barrier tape, or security fencing. Movement of personnel and equipment between these zones and onto the site will be strictly regulated through access control points.

The purpose of implementing these work zones is twofold: 1) to prevent possible exposure of unprotected site personnel to hazardous materials; 2) to prevent removal or migration of contaminants from the site.

The actual size of these work zones will be dependent upon several factors including scope of work, contaminants encountered, as well as, environmental and site conditions. It will be the responsibility of the Health and Safety Representative, Site Health and Safety Associate, and Project Manager to continually evaluate and determine the appropriate size and location of these work zones, as well as, the location of the specific access control points.

### 5.1 Exclusion Zone

The Exclusion Zone, the closest to the contamination area of the three areas, is the zone where contamination does or could occur. All people entering the Exclusion Zone must wear prescribed levels of protection. An entry and exit check point must be established at the periphery of the Exclusion Zone to regulate the flow of personnel and equipment into and out of the zone and to verify that the procedures established to enter and exit are followed.

The outer boundary of the Exclusion Zone, the Hotline, is initially established by visually surveying the immediate environs of the incident and determining where the location of hazardous substances, drainage, leakage, or spilled material; and whether any discoloration's are visible. Guidance in determining the boundaries is also provided by data from the initial site survey indicating the presence of organic or inorganic vapor/gases or particulates in air, combustible gases, and radiation, or the results of water and soil sampling.

Additional factors that are considered include the distances needed to prevent fire or an explosion from affecting personnel outside the zone, the physical area necessary to conduct operations, and the potential for fugitive emission release. Once the Hotline has been determined, it will be physically secured, fenced, or well-defined by landmarks. During subsequent site operations, the boundary may be modified and adjusted, as more information becomes available.

All individuals entering the Exclusion Zone must have: 1) proper training certification; 2) appropriate personal protective equipment; and 3) medical authorization. Personal protective equipment will be designated based on site-specific conditions including the type of work to be done and the hazards that may be encountered. Frequently, within the Exclusion Zone, different levels of protection may be justified. Levels of protection are based on: measured concentrations of substances; potential for contamination; known or suspected presence of highly toxic substances; and the task being conducted within an area. The Health and Safety Representative will be responsible for evaluating available information and establishing appropriate levels of protection.

## 5.2 Contamination Reduction Zone

Between the Exclusion Zone and the Support Zone is the Contamination Reduction Zone. This area provides a transition between contaminated and clean zones. This zone serves as a buffer to further reduce the probability of the clean zone becoming contaminated or being affected by other existing hazards. It provides additional assurance that the physical transfer of contaminating substances and people, equipment or in the air is limited through a combination of decontamination, distance between Exclusion and Support Zones, air dilution, zone restrictions, and work functions.

Initially, the Contamination Reduction Zone is considered a non-contaminated area. At the boundary between the Exclusion and Contamination Reduction Zones, a Contamination Reduction Corridor (decontamination station) is established. Depending on the size of the operation, more than one corridor may be necessary. Exit from the Exclusion Zone is through a Contamination Reduction Corridor. As operations proceed, the area around the decontamination station may become contaminated, but to a much lesser degree than the Exclusion Zone. On a relative basis, the amount of contaminants should decrease from the Hotline to the Support Zone due to the distance involved and the decontamination procedures used.

Access to the Contamination Reduction Zone from the Support Zone is through a control point. Personnel entering this location will wear the prescribed personnel protective equipment, if required, for working in the Contamination Reduction Zone. Entering the Support Zone requires decontamination and removal of any protective equipment worn in the Contamination Reduction Zone.

## 5.3 Support Zone

The Support Zone, the area most remote from site contamination, is considered a non-contaminated or clean area. Support equipment (command post, equipment trailer, personal hygiene facility, etc.) is located in this zone; traffic is restricted to authorized response personnel. Since normal work clothes are appropriate within this zone, potentially contaminated personal protective equipment, clothing, and samples are not permitted in this area. The listed materials are left in the Contamination Reduction Zone until they are decontaminated.

The location of the command post and other support facilities within the Support Zone depends on a number of factors, including:

- Accessibility: topography; open space available; locations of highways, railroad tracks; or other limitations.
- Wind direction: preferably, the support facilities should be located upwind of the Exclusion Zone. However, shifts in wind direction and other conditions may be such that an ideal location based on wind direction alone does not exist.
- Resources: adequate roads, power lines, water, and shelter.

## 6.0 PERSONAL PROTECTION

The levels of protection to be utilized by site personnel will be clearly defined in Section 13.0, Site Specific Information. The Health and Safety Representative, with the approval of the Manager of Occupational Health and safety, will have authority to upgrade or downgrade these levels of protection as deemed necessary or prudent.

### 6.1 Levels of Protection

Clean Harbors, Inc. utilizes a four level system for the protection of personnel from the chemical, physical, and biological hazards that may be encountered at hazards waste sites. These levels of protection, (Level A, Level B, Level C, and Level D), are designed to provide protection to the respiratory system, skin, eyes, face, hands, feet, head, body, and hearing of site personnel.

In certain instances, site-specific tasks or environmental conditions may make it necessary to modify or alter these levels of protection. These minor alterations, (i.e., utilization of hearing protection, hard hat, face shield, etc.), will be made by the Health and Safety Representative as required.

The following generally describes these levels of protection:

#### 6.1.1 Level - A

Level “A” protection affords the highest level of respiratory, skin, and eye protection. The following personal protective equipment (PPE) will be used, as a minimum for Clean Harbors' level A protection.

- Full face-piece pressure-demand, SCBA or supplied-air respirator with escape SCBA
- Fully-encapsulating, chemical resistant suit
- Inner chemical-resistant gloves
- Chemical-resistant safety boots

#### 6.1.2 Level - B

Level “B” protection provides the same level of respiratory protection as Level “A”, but provides a lower level of skin protection.

The following personal protective equipment (PPE) will be used, as a minimum for Clean Harbors' Level “B” protection.

- Full-face-piece, pressure-demand, SCBA supplied-air respirator
- Chemical-resistant clothing (coveralls)
- Inner and outer chemical-resistant glove
- Chemical resistant boots

### 6.1.3 Level - C

Level “C” protection provides the same level of skin protection as Level “B” but, provides a lower level of respiratory protection.

The following personal protective equipment (PPE) will be used, as a minimum for Clean Harbors' Level “C” protection:

- Full face-piece, air-purifying, respirator equipped with appropriate chemical/mechanical Cartridges
- Chemical-resistant clothing (coveralls)
- Chemical-resistant gloves
- Chemical-resistant boots

### 6.1.4 Level - D

Level “D” protection does not provide respiratory protection and affords only minimal skin protection.

The following personal protective equipment (PPE) will be used, as a minimum for Clean Harbors' Level “D” protection.

- Coveralls/uniform
- Safety boots
- Gloves
- Eye protection.

## **7.0 DECONTAMINATION PROCEDURES**

Decontamination consists of physically removing contaminants or changing their chemical nature to innocuous substances. How extensive the process depends upon several factors, including the type of contaminant, the amount of contamination, levels of protection utilized, and the type of protective clothing worn. The more harmful the contaminant, the more extensive and thorough the decontamination procedures will likely be. Less harmful contaminants normally require less extensive decontamination procedures.

### 7.1 Standard Decontamination Procedures

The initial decontamination plan is based upon a worst-case situation or assumes no information is available about the incident. This initial plan may then be modified, (i.e., stations may be eliminated or combined), as more specific information becomes available.

A site-specific system will be established in which personnel and their equipment will be decontaminated in combination with a sequential doffing of protective equipment. Each step of the decontamination procedure will be performed at the specific station within the Contamination Reduction Zone. The first station will involve the cleaning and doffing of the most heavily contaminated items and progressing to the last station with the least contaminated articles.

### Section 7.1 Cont.

All personnel and equipment, leaving the Exclusion Zone, will be thoroughly decontaminated before passing through to the Support Zone. It will be the responsibility of the Health and Safety Representative to continually evaluate and implement the site specific decontamination procedures.

### 7.2 Emergency Decontamination Procedures

An attached Appendix provides site specific chemical hazard information in the form of Material Safety Data Sheets for all chemicals known or suspected of being present on-site. Emergency decontamination procedures shall include the following:

- \* Another team member should remove the individual from the immediate area of contamination;
- \* Precautions should be taken to avoid exposure of other individuals to the chemical;
- \* If the chemical is on the individual's clothing, the clothing should be removed if it is safe to do so;
- \* If the chemical has contacted the skin, the skin should be washed with copious amounts of water, preferably under a shower for at least 15 minutes;
- \* In case of eye contact, emergency eyewash should be used. Eyes should be washed for at least 15 minutes;
- \* If necessary, the victim should be transported, (with all appropriate MSDS), to the nearest hospital or medical center. If necessary, an ambulance should be called to transport the victim;

There is the possibility that the decontamination may aggravate or cause more serious health effects. If prompt life-saving first aid and medical treatment is required, decontamination procedures should be omitted. Whenever possible, response personnel should accompany contaminated victims to the medical facility to advise on matters involving decontamination.

Life-saving care should be instituted immediately without considering decontamination. The outside garments can be removed, (depending on the weather), if they do not cause delays, interfere with treatment, or aggravate the problem. Respirator assemblies must always be removed. Chemical resistant clothing can be cut away. If the other contaminated garments can not be safely removed, the individual should be wrapped in plastic, rubber, or blankets to help prevent contaminating personnel and the inside of the ambulance. Outside garments are then removed at the medical facility. No attempt should be made to wash or rinse the victim at the site. One exception would be if it were known that the individual has been contaminated with an extremely toxic or corrosive material which could also cause severe injury or loss of life. For minor medical problems or injuries, the normal decontamination procedure should be followed.

Section 7.2 Cont.

Heat stroke requires prompt treatment to prevent irreversible damage or death. Unless the victim is obviously contaminated, decontamination should be omitted or minimized and treatment begun immediately. Protective clothing may have to be cut off. Less serious forms of heat stress require prompt attention or they may lead to heat stroke.

When protective clothing is grossly contaminated, contaminants may be transferred to treatment personnel or the wearer and cause injuries. Unless several medical problems have occurred simultaneously with splashes, the protective clothing should be washed off as rapidly as possible and carefully removed.

## **8.0 AIR SURVEILLANCE**

Clean Harbors, Inc. will design, develop and implement an air surveillance program to detect and quantify any volatilization of material or release of toxic aerosols from the work site. Air monitoring for Tasks 2-8 located in the Site Specific section of this plan will be conducted to ensure a safe working environment.

This program shall consist of air monitoring, (utilizing direct reading instruments capable of providing real-time indications of air contaminants), as well as, air sampling, (collecting air samples on an appropriate sampling media, i.e., integrated monitoring, or collecting a sample of air in a suitable sampling container followed by laboratory analysis) This program shall include evaluation of potentially toxic, combustible, and oxygen deficient/enriched atmospheres, as well as, evaluation for potentially radioactive materials.

The Site Health and Safety Representative, in cooperation with the Corporate Industrial Hygienist and Project Manager, shall be responsible for ensuring site and employee monitoring is conducted in an appropriate manner, (i.e., following standard industrial hygiene protocols), and that air monitoring/sampling procedures shall be conducted at a frequency sufficient to ensure accurate assessments of site conditions, and the effectiveness of work practices, engineering controls, and/or PPE. In addition, the Site Health and Safety Representative shall ensure a daily, on-site log is maintained of all air monitoring/sampling results, and calibration logs.

The specific air surveillance equipment, techniques, and frequency to be utilized on-site will be specified in Section 13.0 Site Specific Information. The information gathered during the air monitoring program should be used for the following:

- a) Determine the proper Personal Protective Equipment;
- b) Determine the appropriateness of upgrading or downgrading Levels of Protection;
- c) Ensure site integrity and containment of hazardous substances within the Exclusion Zone;
- d) Document on-site employee exposures;
- e) Assess the potential health effects of exposure to site contaminants.
- f) Determine the need for specific medical monitoring;
- g) Delineate areas where personal protective equipment is needed;

## 9.0 SAFETY PRECAUTIONS/WORK PRACTICES

Clean Harbors is committed to developing and maintaining strong safety awareness on all job sites. A list of standing orders has been developed to ensure that all persons are cognizant of potential hazards. These orders will be distributed to persons entering the site and will be conspicuously posted. The standing orders will be reviewed by the Project Manager or Supervisor. Any changes in the orders will be announced officially during the daily safety meetings.

The following orders apply:

- The buddy system will be utilized at all times.
- All workers will attend the daily safety meeting before commencing work. (See Section 11.0).
- Smoking, eating, and drinking are strictly prohibited outside of the Support Zone.
- Matches, lighters, and smoking materials must not leave the Support Zone.
- Entry into and exit from zones within the site must be made via the established access control points.
- Prescribed personal protective equipment must be worn as directed by the Health and Safety Representative and Project Manager.
- If the protective clothing should tear, it will be replaced immediately.
- Assumptions will not be made concerning the nature of materials found on the site. Should any unusual situations occur (not mentioned in Section 13.0 Site Specific Information) operations will cease and the Health and Safety Representative and the Project Manager will be contacted for further direction.
- Communication hand signals will be understood & reviewed daily. Hand signals are described in section 10.4.3.
- Consultation with the Project Manager shall be made to verify any uncertainties.
- The Project Manager and Health and safety Representative will be informed when;
  - \* odors are detected while wearing respiratory protection;
  - \* symptoms of chemical exposure become apparent;And/or
  - \* Injuries occur on-site.

Section 9.0 Cont.

- Improperly grounded/guarded tools shall be tagged out-of-service and the Project Manager shall be notified immediately.
- If a piece of equipment fails or is found to be in need of repair, it will be immediately tagged out-of-service and the Project Manager shall be notified. This equipment will not be returned to service until repairs have been completed and the equipment tested by a competent individual.
- Unsafe conditions shall be reported immediately.
  
- Unusual odors, emissions, or signs of chemical reaction shall be reported immediately.
- Workers will minimize contact with hazardous materials by:
  - \* avoiding areas of obvious contamination;
  - \* using polyethylene sheeting to help contain contaminants; and
  - \* Avoiding contact with toxic materials.
  
- Only essential personnel will be permitted in the work zones.
  
- Whenever possible, personnel will be located upwind during material handling.
  
- At the first sign of odors detected inside the facepiece of a respirator the employee shall leave the exclusion zone and report the incident to the Health and Safety Representative and the Project Manager.
  
- If an employee begins experiencing any signs or symptoms of exposure to site toxic material (this information will be discussed during the daily meeting and/or can be found on the appropriate material safety data sheets). The employee will leave the area immediately and report the incident to the Health and Safety Representative and Project Manager.

**10.0 MISCELLANEOUS HEALTH AND SAFETY ITEMS**

10.1 Information Program

10.1.1 Purpose

The purpose of CHI's Information Program (IP) is to inform employees, contractors, and subcontractors (or their representative) of the hazardous substances, health hazards and other hazards they are likely to encounter while working on this site.

10.1.2 Scope

CHI will notify Employees, contractors, and subcontractors of the nature, level and degree of exposure likely as a result of participation at this hazardous waste operation.

Section 10.1.2 Cont.

This plan is intended to cover workers who are exposed to greater hazards than the general employee population. Consequently, a clerk in an office on the periphery of a site who does not enter the operations part of the site and is exposed only to background levels of hazardous substances is not covered under this plan. Employees, who regularly enter the operations areas of the site and who are exposed to levels significantly over background, are covered.

This plan concentrates on those substances that will create the greatest risk to employees. Risk assessment considers the following! Substance toxicity; potential for exposure; proximity to toxic substance; and availability of controls. For example, a level of exposure to a general population that is not likely to exceed background levels would not normally require notification. Similarly, a level of exposure above background but below establish permissible exposure limits, would also not require specific notification. As a precaution however, if levels are unknown, employees, contractors, and subcontractors will be informed of the potential for exposure. Employees will be required to use appropriate protection until the area can be characterized through air monitoring

10.1.3 Procedures - Employees

1. Material Safety Data Sheets (MSDS) will be obtained for all hazardous materials that are anticipated to exceed established permissible exposure limits.
2. Employees will be provided training as specified under CHI's Hazard Communication Program (HCP), Section 2.3.
3. The Training Documentation Form (HCP - Form 1) or equivalent will be completed. Refer to Section 2.5 of the HCP "Training Documentation" for guidance on form completion.

10.1.4 Procedures - Contractor and subcontractor

1. If operations shall be conducted at a CHI TSDF, Section 7.0 of the Company's HCP will be referenced.
2. HCP - Form 3 will be completed.
3. Appropriate MSDS will be provided to all contractors.
4. Information contained in the Site Specific Health and Safety Plan will be discussed with all contractors.
5. Procedure to be followed in the event an unanticipated hazardous chemical is encountered will also be discussed.

#### 10.1.5 Procedures Employees, Contractors, Subcontractors

1. Discuss exposure level estimates.
2. Explain operations where exposures are anticipated.
3. Explain degree of risk as the result of exposure levels and participation in the specific operations at the site.

#### 10.2 Confined Space Program

Clean Harbors' has developed a Confined Space Program to significantly reduce the risk of accidental injury or death associated with entering and working in confined spaces. This program shall be strictly followed during any operation involving confined space entry. The program is designed not only to make confined spaces safer for workers, but also to make workers and supervisors cognizant of the hazards and the safe work practices necessary to address these hazards. A copy of Clean Harbors Confined Space program has been included in this plan.

Clean Harbors' Confined Space Program is designed to enable CHI employees to identify confined space hazards, including oxygen deficient/enriched, combustible, and toxic atmospheres, and how to minimize their risks. The program includes theoretical, as well as, practical, ("hands-on") instruction in confined space hazards, (provided during OHZ 40-hr training program); written confined space program information, (CHI Confined Space Entry Program); and additional job/site specific training.

#### 10.3 Excavation Procedures

Clean Harbors' has developed a training program designed to assist CHI employees in making decisions on how to provide safe working conditions while working in and around excavation sites. This program is designed to provide an understanding of OSHA excavation and trenching standards; soil evaluation; proper sloping decisions; hazards associated with excavations and trenching; and the signs and causes of cave-ins.

As necessary, additional training shall be provided to all on-site personnel regarding site specific excavation/trenching procedures and the related hazards.

#### 10.4 Communications

In order to maintain contact between workers and the various operations that may be occurring on site, Clean Harbors, Inc., uses several different forms of communication. The method of communication to be used on site will be determined by such factors as, site and working conditions, as well as the current operations. It will be the responsibility of the Health and Safety Representative in association with the Project Manager to determine the most appropriate form of communication

#### 10.4.1 Radio Devices

Hand held two way radios shall be utilized when necessary to maintain direct voice contact between field crews and Health and Safety Representative or Project Manager.

#### 10.4.2 Air Horns

Air horns may be utilized by field crews, as well as the support personnel, to convey emergencies or as a back up to radio communication.

one blast - attention

two blasts - leave the area

three blasts - leave the area immediately (emergency situation)

#### 10.4.3 Hand Signals

Hand signals will be utilized by all field crews to convey emergencies and/or with the failure of two-way radio communication. As a minimum, the following hand signals shall be understood and utilized by all on-site personnel.

- ◆ Hands gripping throat - - - - - Out of air, cannot breathe
- ◆ Grip's partner's wrist or  
Point to Contamination Reduction Corridor - - - - - Leave area immediately
- ◆ Hands on top of head - - - - - Need assistance
- ◆ Thumbs up - - - - - O.K., I understand
- ◆ Thumbs down - - - - - No I don't understand

### 11.0 SAFETY MEETING

Daily safety meetings are held to discuss the following;

1. Contents of the Site Health and Safety Plan;
2. Hazards of chemicals handled at the specific job;
3. Safety precautions/work practice (see Section 9.0);
4. Daily activities.

A daily attendance sheet shall be completed listing the information discussed at the safety meeting and those in attendance. The sheet will be available for on-site inspection by the Health and Safety Department. These sheets will be maintained in the job file.

## **12.0 EMERGENCY RESPONSE/CONTINGENCY PLANNING**

Due to the uncertain nature of emergency response and hazardous waste site operations, it is necessary to anticipate and prepare for potential mishaps. To accomplish this, a site-specific contingency plan should be developed, (See Section 13 Site Specific Information) . This plan Should include but is not limited to the following: the names and phone numbers of key personnel, as well as, local emergency medical services, police, fire, and hospital; directions to the nearest hospital capable of treating potentially injured on-site personnel; proposed emergency response actions and necessary PPE/equipment; and a spill containment program;

Before commencing any on-site operations, the Project Manager, in cooperation with the Site Health and Safety Representative, will advise all on-site personnel of potential emergencies. Evacuation and rescue plans, emergency assistance personnel, and the location of rescue equipment will be decided before any on-site activities commence.

Factors to be considered in formulating emergency response readiness include but are not limited to the following:

- Communication networks and warning signals;
- First Aid equipment;
- Rescue operations;
- Rapid notification of fire, police and emergency facilities;
- Site evacuation plans;
- Availability of transport vehicles;
- Extra Personal Protective Equipment

### **12.1 Definitions**

All hazardous waste site activities present a degree of risk to on-site personnel. During routine operations, establishing good work practices, staying alert and using proper personnel protective equipment minimize risk. Unpredictable events such as physical injury, chemical exposure, or fire may occur and must be anticipated.

Emergency conditions are considered to exist if:

- Any member of the field crew is involved in an accident or experiences any adverse effects or symptoms of exposure while on-site; or
- A condition is discovered that suggests the existence of a situation more hazardous than anticipated

## 12.2 Pre-Planning Procedures for Emergency Response

Before the conducting of fieldwork, the Site Health and Safety Representative, in cooperation with the Project Manager shall implement the following general emergency procedures. The implementation will consist of including the following considerations in project planning, as well as, site specific training sessions for on-site personnel.

- In case of emergency, the appropriate contacts, (as identified under Section 13 Site specific Information) shall be notified. This list shall be posted conspicuously on-site.
- Personnel on-site shall use the “buddy” system (pairs). Friends should prearrange hand signals or other means of emergency signals for communication in case of lack of radios or radio breakdown, (see item below).
- Visual contact shall be maintained between “pairs” on-site with the team remaining in close proximity to assist each other in case of emergencies.
- Hand signals will be utilized by all field crews to convey emergencies and/or with the failure of two-way radio communication. As a minimum, hand signals, (as suggested under Section 10.5 - Communications), shall be understood and utilized by all on-site personnel.
- In the event that any on-site personnel experience any adverse effects or symptoms of exposure while on the scene, the entire field crew shall immediately halt work and act accordingly to the instructions provided by the Site Health and Safety Field Representative.
- The discovery of any condition that would suggest the existence of a situation more hazardous than anticipated should result in the evacuation of the field team and re-evaluation of the hazard and the level of protection required.
- In the event, an accident occurs, the Site Health and safety Representative shall conduct an Accident Investigation and appropriate corrective action shall be taken.
- All field crew members shall make use of their senses to alert themselves and others to potentially dangerous situations which they should avoid, (e.g., unusual odors or emission of vapors);
- Personnel should practice unfamiliar operations before doing the actual procedure in the field.
- Field crew members shall be familiar with the physical characteristics of the site, including:
  - \* Wind direction in relation to contamination zones (wind indicators visible to all on-site personnel shall be provided to indicate possible routes of upwind escape);

Accessibility to associates, equipment, vehicles, communication equipment and to the general site, (e.g., major highways);

### Section 12.2 Cont.

- \* Exclusion zones;
- \* Site access; and nearest water supply
- Personnel and equipment in the contaminated area shall be kept to a minimum, consistent with effective site operations;
- Procedures for leaving a contaminated area must be planned and implemented prior to going on-site in accordance with provisions outlined under Section 13 - Site specific Information;

### 12.3 Key Personnel and Phone Numbers

All appropriate essential personnel and emergency telephone numbers will be listed under (Section 13 - Site Specific Information). These numbers shall be reviewed with on-site personnel and posted in a conspicuous position on-site, along with instructions for dealing with various emergency situations, such as explosions, fires, spills, or contact inquiries.



Environmental Services, Inc.

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## **SECTION 13**

### **SITE SPECIFIC HEALTH & SAFETY PLAN**

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# [Station B Concrete Removal] Health & Safety Plan

## Chapter 13

Prepared for (Site Name): United Illuminating  
 Site Address: 532 Grand Ave  
New Haven, CT 06510  
 Project No.: \_\_\_\_\_  
 Prepared by: Russell Alain Date: 04-May-2018  
 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Plan Date: 29-May-2018

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## Revision Summary

Section	Revision Detail (Please provide rationale)	Approved By (Name & Title)	Date Revised

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### 13.0 SITE SPECIFIC INFORMATION

Site Name: United Illuminating

Site Location: 532 Grand Ave, New Haven CT

Plan Date: \_\_\_\_\_

Revision Date:

This plan addresses those activities and operations proposed for the Station B concrete removal Project.

To be conducted for United Illuminating

by Clean Harbors. These activities are proposed to include: Scaffolding installation, concrete

Removal using a scabblers, jackhammer, and wet cutoff saw. Waste collection, transportation, and

Disposal.

This Site Specific Information has been developed from the latest available information revisions and alterations to this plan may become necessary as further information, (i.e., environmental sampling results, changes in site conditions, changes in scope of work, etc.) , is developed or becomes available. Clean Harbors Manager of Health & Safety must approve any proposed changes, before the on-site implementation.

All on-site personnel are required to review and comply with this Health & Safety Plan. It is the responsibility of the Project Manager to ensure this plan is implemented.



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### 13.1 SITE HISTORY

#### 13.1.1 Former Nature of Site

<input checked="" type="checkbox"/> _____	Industrial	_____	Commercial
_____	Residential	_____	Rural
		_____	Other (Specify):
		_____	
		_____	

#### 13.1.2 Former Use of Site

_____	Manufacturing (Specify products and duration of plant activities)	_____	Landfill
_____	Residence	_____	TSDf
_____	Maintenance Facility	_____	Gasoline Distributor
		<input checked="" type="checkbox"/> _____	Other (Specify)
		_____	Electrical Substation
		_____	

#### 13.1.3 Reason for Site Mobilization/Activity

_____	Public Complaints	_____	Agency Authorized Clean-up
_____	Client Request	_____	Emergency Response
<input checked="" type="checkbox"/> _____	Previous Site Research/Investigation		
_____	Other (Specify):		
	_____		
	_____		

#### 13.1.4 Work Ordered By

<input checked="" type="checkbox"/> _____	Client	_____	Government Agency	_____	Other (Specify)
				_____	
				_____	

#### 13.1.5 Nature of Problem

_____	Uncontrolled Dumping	_____	Leaking Underground Storage Tank
_____	Buried Drums	_____	Spill
_____		_____	Truck Roll-Over
<input checked="" type="checkbox"/> _____	Other (Specify)		



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\_\_\_\_\_ TSCA PCBs detected in the concrete at various depths and concentrations.

13.1.6 Detailed Site History

Site was formerly in use by United Illuminating. PCBs were detected in the concrete at station B previously and a previous attempt by another contractor was attempted to scarify the Concrete. TRC found additional contamination on the site needing additional concrete removal

13.2 SITE DESCRIPTION

13.2.1 General Site Topography

\_\_\_\_\_ Hilly       X  Flat      \_\_\_\_\_ Marshland      \_\_\_\_\_ Other (Specify)

13.2.2 Affected Area

\_\_\_\_\_ Urban      \_\_\_\_\_ Rural      \_\_\_\_\_ Residential       X  Industrial

\_\_\_\_\_ Other (Specify)



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13.2.3 Bodies of Water Neighboring Site

Stream      River      Pond      Lake      Bay  
 Ocean      Other (Specify \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

13.2.4 Approximate Site Size

150ft x 60ft  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(Specify Approximate Dimensions in feet)

13.2.5 Unusual Site Features

Mill River connects on both east and west of the property. Roof is in poor condition.  
\_\_\_\_\_  
\_\_\_\_\_

(SPECIFY: Process/Utility Lines and proximity to site operations; overhead obstructions; Building locations; Landmarks; etc.)

13.2.6 Properties or Operations Abutting (adjacent to) the Site and Current Use

North:	McVac Environmental	75ft
South:	Station A (English Station)	530ft
East:	Mill River	155ft
West:	Mill River	260ft

(Specify approximate distances to work areas)

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### 13.3 CURRENT SITE STATUS

Active
  Inactive

#### 13.3.1 Current Site Activities

<p>CLEAN HARBORS OPERATIONS:</p> <p>CHES will set up containments and remove the contaminated to the specified depths defined by TRC utilizing a scabber, jackhammer, and wet cutoff saw. All waste liquid or solid will be collected and stored in the proper container. All waste will be disposed of as laid out in Quote #2820182. CHES will also provide supervision for all subcontractors used on the project.</p>
<p>CLIENT OPERATIONS:</p> <p>United Illuminating will be providing oversight for the entire project.</p>
<p>GOVERNMENTAL AGENCY OPERATIONS (SPECIFY AGENCY):</p> <p>N/A</p>
<p>ADDITIONAL SITE CONTRACTORS:</p> <p>TRC will be providing onsite supervision as well as sampling to confirm the contaminants have been removed and all equipment has been properly decontaminated.</p> <p>Advanced Scaffolding will set up and break down the scaffolding for the project.</p> <p>Toce Structural will be providing drawings to advanced scaffolding for the proper set up to protect CHES workers from the decaying roof.</p> <p>J.J. Brennan will provide and apply non-shrink grout to the floor after all contaminants have been removed.</p>

### 13.4 SCOPE OF WORK/ PROJECT OBJECTIVES

- CHES will have the truck in the bay moved to the back of the building.
- Poly off the floor at the beginning of the project.
- Advanced Scaffolding will set up over head protection.
- Mobilize all equipment to site then mobilize the rolloff container.
- Remove the contaminated concrete to the specified depths.
- Decon all equipment and materials used onsite to remove concrete.
- Install non-shrink grout over the areas where the concrete was removed.
- Break down and demobe scaffolding from the site.
- Transport and dispose of all waste at the appropriate disposal facility.



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### 13.5 CONTAMINANTS

#### 13.5.1 Waste Type

\_\_\_\_\_ Liquid    X Solid    \_\_\_\_\_ Gas    \_\_\_\_\_ Sludge    \_\_\_\_\_ Other

#### 13.5.2 Waste Characteristics (from Manifest)

\_\_\_\_\_ Corrosive    \_\_\_\_\_ Flammable    \_\_\_\_\_ Explosive  
 \_\_\_\_\_ Combustible    \_\_\_\_\_ Volatile    X Toxic  
 \_\_\_\_\_ Reactive    \_\_\_\_\_ Radioactive    \_\_\_\_\_ Other  
 \_\_\_\_\_ Unknown

#### 13.5.3 Containment

\_\_\_\_\_ Excavation    \_\_\_\_\_ Lagoon    \_\_\_\_\_ Body of Water  
 \_\_\_\_\_ Tank    \_\_\_\_\_ Drums    \_\_\_\_\_ Tank Car  
 \_\_\_\_\_ Piping    X Roll-Off    \_\_\_\_\_ Process Vessel  
 \_\_\_\_\_ Soil    \_\_\_\_\_ Ground Water    \_\_\_\_\_ Other

#### 13.5.4 Substances of Concern

Provide a summary of the chemicals Known (X), or Suspected (S) to be present on-site. Indicate Concentrations by laboratory analysis, exposure monitoring results, bulk samples, etc. found in ppm, ppb, mg/l, ug/l, percent (%), etc.

CONCENTRATION RANGE OF CHEMICALS FOUND					
Chemical Name	Concrete	Surface	Air	Method <sup>1</sup>	X or S
PCB	<16,000PPM				X

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### 13.5.5 Exposure Limits

This table lists the accepted exposure limits of those substances outlined in Contaminants of Concern and Chemicals to be used on site. Attach appropriate Materials Safety Data Sheets (MSDS's) in Appendix 3.

EXPOSURE LIMITS <sup>1</sup>						
CHEMICAL NAME	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL	IDLH	IP (Ev)
PCB TSCA	<16,000 0.5 mg/m <sup>3</sup>		0.5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	

<sup>1</sup>Specific units (i.e., ppm; mg/m<sup>3</sup>, etc).

Notes for 1.5.5:

- (a) TLV-TWA ACGIH, Threshold Limit Value – Time Weighted Average
- (b) TLV-STEL ACGIH, Threshold Limit Value - Short Term Exposure Limit
- (c) PEL-TWA OSHA, Permissible Exposure Limit - Time Weighted Average
- (d) PEL-STEL OSHA, Permissible Exposure Limit - Short Term Exposure Limit
- (e) IDLH NIOSH, Immediately Dangerous to Life or Health; a maximum concentration from which, in the event of respirator failure, one could escape within 30 minutes without experiencing any escape-impairing or irreversible health effects.
- (f) A1 ACGIH, Known Human Carcinogen
- (g) A2 ACGIH, Suspected Human Carcinogen
- (h) Skin This attention-calling designation refers to the potential contribution to the overall exposure through skin absorption, including mucous membranes and eye, either airborne or through direct contact with the substance.
- (i) Ceiling ACGIH, the concentration that should not be exceeded during any part of the working exposure.

### 13.5.6 Chemicals Used On Site

Summarize the chemicals that will be brought to the site and used by Clean Harbors Personnel (include each product that will be on site, e.g. the decontamination solution, oil/grease for equipment maintenance, etc). Attach appropriate MSDS in Appendix 3.

CHEMICAL NAME	TASK USED FOR	QUANTITY OF CHEMICAL	CONC. OF SOLUTION
Simple Green	Decontamination	Unknown, as needed	
MSA Sanitizing Solution	Decontamination of Respirators	Unknown, as needed	
Capsur	Decontamination	Unknown, as needed	

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KEY PERSONNEL AND EMERGENCY NUMBERS

911	Fire Department
911	Ambulance Service
911	Police Department
911	State/Highway Police
(800) 424-9300	CHEMTREC
(800) 222-1222	Poison Control Center
Nearest Hospital from Site:	
Name:	Yale New Haven Hospital
Address:	800 howard ave. New Haven CT 06510
Phone:	888.700.6543
<small>DIRECTIONS TO HOSPITAL FROM SITE          (NOTE: PROVIDE APPROXIMATE DISTANCES IN FEET, MILES/KILOMETERS, ETC. BETWEEN LANDMARKS):</small>	
Exit Left on Grand ave.	
Take the next immediate left onto East st.	
East st will turn into Long Wharf Dr.	
Turn right onto Canal Dock rd.	
Turn left onto Sargent Dr.	
Turn right onto Church st.	
Turn left onto The hill rd.	
Turn right onto Howard ave.	
Destination is on the right.	



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CLEAN HARBORS HEALTH & SAFETY CONTACTS	
Facility Health & Safety Manager	
Name:	Jon Menti
Telephone:	203-734-2585 X204
Cell:	860-982-4195
Regional Health & Safety Manager	
Name:	Jerry Trefethen
Telephone:	207-799-8111
Cell:	207-252-0082
Director of Health & Safety	
Name:	Thomas Hagadorn
Telephone:	732-248-1997
Cell:	
Sr. VP/ VP, Health & Safety	
Name:	
Telephone:	
Cell:	

**“Clean Harbors Off-Hours phone coverage provided by Central Answering Service”**  
Telephone – (800) 282-0058

CLIENT CONTACT	
Name:	Shawn Crosbie
Title:	Project Manager of Remediation – CT/MA
Company:	United Illuminating
Telephone:	203-926-4595
Regulatory Agency Contacts:	
FEDERAL CONTACT	
Name:	N/A
Title:	
Agency:	
Telephone:	
STATE/PROVINCIAL CONTACT	
Name:	N/A
Title:	
Agency:	
Telephone:	

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13.6 SITE HEALTH & SAFETY CONTROLS

The following information has been developed to identify, communicate and minimize the risk of exposure to toxic materials and physical hazards on the job site. This preliminary evaluation identifies anticipated hazards and recommends control measure to minimize recognized hazards. Additional information on hazards should be gathered during site activities and can be added to this document to supplement this plan.

Changes to this plan (i.e. changes in levels of protection, use of alternative controls, additional tasks, etc.) must be approved by the Manager Health & Safety prior to initiation or implementation.

	TASK	LEVEL OF PROTECTION
1.	Contaminated Material Removal	Level C

Task No. (1) Contaminated Material Removal  
(Define Task Name)

This phase of the operation will include the following steps (LIST EACH STEP REQUIRED TO COMPLETE THE TASK).

A	Initial Set up of work area. Including Scaffolding.
B	Removal of Concrete with Scabbler, Jackhammer, and Wet cutoff saw.
C	Collection of all waste into the proper container.
D	Decontamination of any equipment used onsite.
E	Grout Installation.
F	Break down of work area and demobe of all rental equipment.
G	Transport and Dispose of all Waste at the appropriate Disposal Facility.

Task No. (1) – Hazard Identification:

CHEMICAL HAZARDS associated with this task are anticipated to include:

- (1) Refer to Section 1.5.4 and 1.5.5;
- (2) Refer to attached Material Safety Data Sheets.

PHYSICAL HAZARDS associated with this task are anticipated to include:

Complete a Physical Hazard Evaluation Sheet (PHES) and attach appropriate Physical Hazard.

Data or Programs:

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Others (not listed on the PHES):

BIOLOGICAL HAZARDS associated with this task are anticipated to include:

None Anticipated

Task No. (1) – Work Practices/Engineering Controls

To reduce anticipated hazards described above, on-site personnel shall follow the site specific work practices and engineering controls listed below:

- (1) Refer to Section 7.6: Standard Work Practice in the Site Specific Health & Safety Plan Standard;
- (2) Refer to Physical Hazard Control Sheets;
- (3) List other: \_\_\_\_\_  
\_\_\_\_\_



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Task No. (1) –Personal Protective Equipment

Clean Harbors Level   C   Personnel Protection shall be utilized and include the following:

- (a)  Respirator (Indicate type and face piece):  
MSA Fullface
- (b)  Filter Element (if applicable) -GME/P100 Combo
- (c)  Coverall material – QC Tyvek
- (d)  Glove material – PVC outer gloves
- (e)  Inner gloves - Nitrile
- (f)  Steel toed work boots
- (g)  Hard Hat
- (h)  Eye Protection:       Glasses w/ side shields;       Face shield  
    Splash goggles;                               Dust goggles
- (i)  Additional equipment:  
       Hearing protection Plugs and Muffs for vacuum excavation  
       Waders – steel toed  
       Overboots
- (j)  Others:

In addition, all openings will be securely taped to further reduce the possibility of skin contact.

If Clean Harbors Level   B   Personnel Protection is deemed necessary, it shall include the following:

- (a)  Respirator (Indicate type and face piece):  
MSA Full Face
- (b)  SCBA
- (c)  Coverall material – SL Tyvek
- (d)  Glove material – PVC outer
- (e)  Inner gloves - Nitrile
- (f)  Steel toed work boots
- (g)  Hard Hat
- (h)  Eye Protection:       Glasses w/ side shields;       Face shield  
    Splash goggles;                               Dust goggles
- (i)  Additional equipment:  
       Hearing protection Plugs and Muffs for vacuum excavation  
       Waders – steel toed  
       Overboots
- (j)  Others:

In addition, all openings will be securely taped to further reduce the possibility of skin contact.



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### 13.7 PHYSICAL HAZARD EVALUATION SHEET

TASK NUMBER	HAZARD	ACTION
	ABRASIVE BLASTING	Attach Physical Hazard Data Sheet
	BOBCAT LOADER	Attach Physical Hazard Data Sheet
	BONDING & GROUNDING	Attach/Refer to Program
	CHAIN SAW	Attach Physical Hazard Data Sheet
	COLD STRESS	Attach/Refer to Program
	COMPRESSED GAS CYLINDER HANDLING	Attach Physical Hazard Data Sheet
	CONFINED SPACE ENTRY	Attach/Refer to Program
	CONTROL OF HAZARDOUS ENERGY (Lock-out/Tag-Out)	Attach/Refer to Program
	CRANES	Attach Physical Hazard Data Sheet
1	DRUM HANDLING	Attach/Refer to Guidance Manual (Chapter I)
	EXCAVATING & TRENCHING	Attach/Refer to Program
	EXCAVATION/BACKHOE	Attach Physical Hazard Data Sheet
	EXPLOSIVE ACTUATED FASTENING DEVICES	Attach Physical Hazard Data Sheet
1	FALLING OBJECTS	Attach Physical Hazard Data Sheet
1	FLOOR HOLES	Attach Physical Hazard Data Sheet
1	HAND TOOLS	Attach Physical Hazard Data Sheet
1	HEAT STRESS	Attach/Refer to Program
	HOTS/	Attach Physical Hazard Data Sheet
1	HOUSEKEEPING	Attach Physical Hazard Data Sheet
	HYDRO-BLASTER	Attach Physical Hazard Data Sheet
	INERTING SPACES	Attach Physical Hazard Data Sheet
1	LADDERS	Attach Physical Hazard Data Sheet
1	LIGHTING	Attach Physical Hazard Data Sheet
1	MANUAL LIFTING	Attach /Refer to Training Program
	MARINE SAFETY	Attach/Complete Checklist
	OVERHEAD WIRES	Attach Physical Hazard Data Sheet
	PERSONNEL LIFTS	Attach Physical Hazard Data Sheet
	PNEUMATIC HAMMER	Attach Physical Hazard Data Sheet
1	POWER TOOLS	Attach Physical Hazard Data Sheet
	RIGGING	Attach Physical Hazard Data Sheet
	SCAFFOLDS	Attach Physical Hazard Data Sheet
1	SHARP OBJECTS	Attach Physical Hazard Data Sheet
1	SLIPS, TRIPS, AND FALLS	Attach Physical Hazard Data Sheet
	VACUUM TRUCK OPERATIONS	Attach Physical Hazard Data Sheet
	WELDING, CUTTING, BURNING	Attach Physical Hazard Data Sheet
	WORKING AT ELEVATED HEIGHTS	Attach Physical Hazard Data Sheet
1	WORK ZONE TRAFFIC CONTROL	Attach Physical Hazard Data Sheet





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### 13.11 DECONTAMINATION

All personnel and equipment leaving the Exclusion Zone must be thoroughly decontaminated before passing to the Support Zone. The Project Manager must designate decontamination stations, as necessary, and continually evaluate and implement the site Specific decontamination procedures.

Based on the associated hazards and levels of protection required with this operation, the following steps shall be followed during the decontamination of personnel and personal protective equipment.

Step 1:	<b>SEGREGATED EQUIPMENT DROP:</b> Deposit equipment used on site on plastic drop cloths.
Step 2:	<b>BOOT COVER, GLOVE, CHEMICAL-RESISTANT COVERALL WASH/RINSE:</b> Outer gloves, boot covers, and chemical protective clothing will be rinsed to remove any visible contaminants.
Step 3:	<b>TAPE REMOVAL:</b> Remove tape from around boot covers and outer gloves and deposit in appropriate waste container.
Step 4:	<b>BOOT COVER AND OUTER GLOVE REMOVAL:</b> Remove boot covers, followed by outer glove removal, and deposit in appropriate waste container.
Step 5:	<b>CHEMICAL RESISTANT SUIT REMOVAL:</b> Remove chemical resistant suit and deposit in appropriate waste container.
Step 6:	<b>RESPIRATOR REMOVAL:</b> Remove respirator and place in soap/water solution for further cleaning and decontamination.
Step 7:	<b>INNER GLOVE REMOVAL:</b> Remove inner gloves and place in appropriate waste container.

### 1.13 SITE MAPS

#### 13.11.1 Detailed Site Map

Attached is a detailed site map, 8½ x 11½, or 8½ x 14". Included on the map are the following:

- (1) Map Orientation (i.e., N, S, E, & W);
- (2) Anticipated Work Zone locations (i.e., Hot, Decontamination Reduction, etc);
- (3) Location of all above/below ground utilities;
- (4) Any unusual site features (i.e., cliffs, ditch, streams, etc);
- (5) If applicable, locations where photos of site were taken.

#### 13.11.2 Hospital Route Map

Attached is a route map to the nearest hospital, (with directions from the site highlighted), as identified under Key Personnel and Emergency Numbers.

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APPENDIX 1: Plan Approval Agreement

The following individuals have reviewed the Site Specific Health and Safety Plan for the Station B Concrete Removal Project. They are responsible for implementing and enforcing the procedures and items covered by this plan. In addition, Clean Harbors Manager, Occupational Health and Safety, must approve any revisions or alterations to this plan before implementation.

Notify the Regional Health and Safety Manager of any alterations or deviations from the procedures, requirements, etc., listed in this plan. (Return a signed copy of this document to Health & Safety.)

 <hr/> Health & Safety Manager	May 3, 2018 <hr/> Date
Russell Alain <hr/> Project Manager	5/3/2018 <hr/> Date
<hr/> Project Supervisor	<hr/> Date
<hr/> Facility Manager	<hr/> Date



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APPENDIX 3: Appropriate Safety Data Sheets (SDS)





## JOB HAZARD ANALYSIS

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### SECTION 4: HAZARD ANALYSIS PROCESS (Document Hazard Analysis and Controls Based on each Job Step/ Task Sequence)

Sequence Of Job Steps/Tasks (Number)	Hazards/Potential Hazards & Effects (What could go wrong?)	Recommended Hazard Control Or Safe Job Procedures (How can harm be prevented?)	Required PPE (List PPE required for each Job Step)
Task 1			
Site Mobilization	Slips, trips, falls, sharps. Dehydration. Weather.	Wear all appropriate PPE when on site. Stay hydrated during the day and dress for the weather appropriately.	Level D. PVC gloves, Hard Hat, Safety Glasses, Road vest, Chicken boots
Concrete Removal	Slips, trips, falls sharps, Cuts. Kickback from saw. Dust and Vibration. Falling Objects. Cross Contamination. Exposure.	Wear all appropriate PPE when onsite. Take appropriate breaks when handling power equipment. Handle the saw according to the company guidelines. Keep underneath Scaffolding to protect from roof debris.	Level C. Leather gloves. Hard hat, respirator, gme/p100 cartridges. chicken boots QC Tyvek PVC gloves
Scaffolding Setup	Falling objects. Cross Contamination.	Wear appropriate PPE as to not spread contaminants. Watch your work area for falling boards from the roof.	Level D. Hard hat, safety glasses, road vest, pvc gloves, chicken boots
Decontamination	Falling Objects. Cross Contamination. Exposure.	Wear appropriate PPE at all times. Clean all equipment to standard.	Level C. PVC gloves. Hard Hat. Safety Glasses. Respirator gme/p100 cartridges. Chicken boots PVC gloves



# JOB HAZARD ANALYSIS

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**SECTION 5: Atmospheric Monitoring Required:**  Yes  No **[For assistance determining exposure action levels please refer to Clean Harbors' Respiratory Protection Standard - Appendix 9]**

List Substance(s) or Material(s) of Concern Below:	Monitoring Instrument	Substance / Material Exposure Action Levels			
		Level A	Level B	Level C	Level D
PCBs					

**SECTION 6: Training (Document the required Job Task Training)**

Current Fit Test required for respirator use. OSHA 40 Certified.

**SECTION 7: Emergency Procedures (Document the Emergency Response Procedures - i.e. First Aid, Emergency Call #'s, etc.)**

Contact 911. Perform First Aid as necessary. Call H&S Jon Menti 860.982.4195 and PM Russell Alain 203.752.7553

**SECTION 8: Decontamination Procedures (Document the Decontamination Procedures -i.e. People and Equipment)**

Remove all PPE over poly sheeting and store PPE for waste disposal into the proper container. All equipment will be decontaminated with Capsur.

**SECTION 9: Additional Job Specific Considerations:**  Yes  No

All equipment will need to be decontaminated and confirmed clean with wipe samples prior to leaving site.



**Appendix A: Table of Hazards and Controls [This can be used as a tool to trigger situational awareness pertaining to potential Job Hazards]**

This Table of Hazards and Controls can assist the JHA work group to manage hazards for the proposed work. The table does not include all possible hazards and only acts as a guideline. Its intent is to aid in the JHA thought process to determine Job Task Hazards that may be present and identify implementation controls for consideration.

 <p><b>Pressurized Equipment</b></p>	 <p><b>Poor Lighting or visibility</b></p>	 <p><b>Personnel</b></p>	 <p><b>Confined Space</b></p>	 <p><b>Simultaneous Operations (SIMOPS)</b></p>	 <p><b>Environment</b></p>	 <p><b>Ignition Sources</b></p>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Perform isolation – LOTO, blinding, or detail</li> <li><input type="checkbox"/> Depressurize, drain, purge, and vent</li> <li><input type="checkbox"/> Relieve trapped pressure</li> <li><input type="checkbox"/> Avoid auto-refrigeration when depressurizing</li> <li><input type="checkbox"/> Anticipate residual pressure or fluids</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Provide alternate lighting</li> <li><input checked="" type="checkbox"/> Wait or defer until visibility improves</li> <li><input checked="" type="checkbox"/> No work over water that could require rescue</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Provide induction or training for new workers</li> <li><input checked="" type="checkbox"/> Mentor, coach, or supervise</li> <li><input checked="" type="checkbox"/> Verify competencies, skills, and experience</li> <li><input checked="" type="checkbox"/> Address applicable limitations (fatigue, exhaustion, and restricted duty)</li> <li><input checked="" type="checkbox"/> Manage multiple languages</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Discuss confined space entry safe work practice</li> <li><input checked="" type="checkbox"/> Monitor access or entry</li> <li><input checked="" type="checkbox"/> Protect surfaces from inadvertent contact</li> <li><input checked="" type="checkbox"/> Do not locate mobile engines near confined space</li> <li><input type="checkbox"/> Provide observer</li> <li><input type="checkbox"/> Develop rescue plan</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Interface between groups</li> <li><input type="checkbox"/> Use barriers and signs to segregate activities</li> <li><input checked="" type="checkbox"/> Have permit counter signed by leader of affected groups</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Implement controls for slippery surfaces</li> <li><input type="checkbox"/> High winds – goggles</li> <li><input checked="" type="checkbox"/> Heat – hydration, breaks</li> <li><input checked="" type="checkbox"/> Cold – PPE, heaters</li> <li><input checked="" type="checkbox"/> Lightning – tool selection, defer work</li> <li><input type="checkbox"/> Wildlife encounters</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Remove, isolate, or contain combustible materials</li> <li><input type="checkbox"/> Provide fire-fighting equipment</li> <li><input type="checkbox"/> Construct a fire-safe habitat</li> <li><input type="checkbox"/> Provide a fire watch during and after hot work</li> <li><input type="checkbox"/> Conduct continuous gas testing</li> <li><input type="checkbox"/> Bond or earth for static electricity or cathodic protection</li> <li><input type="checkbox"/> Intrinsically safe tools, equipment, etc?</li> </ul>
 <p><b>Hazardous Substance</b></p>	 <p><b>Potential Spills</b></p>	 <p><b>Equipment Hot or Cold</b></p>	 <p><b>High Noise</b></p>	 <p><b>Falling or Dropped Objects</b></p>	 <p><b>Lifting Equipment</b></p>	 <p><b>Work at Heights</b></p>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Drain or purge equipment</li> <li><input type="checkbox"/> Follow MSDS controls</li> <li><input checked="" type="checkbox"/> Implement health hazards controls (Lead, Asbestos, H<sub>2</sub>S, Iron Sulphide, Sulfur Dioxide, NORM)</li> <li><input checked="" type="checkbox"/> Test or analyze material</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Drain equipment</li> <li><input checked="" type="checkbox"/> Provide spill containment equipment</li> <li><input checked="" type="checkbox"/> Have spill clean up materials and equipment on hand</li> <li><input checked="" type="checkbox"/> Restrict and isolate hoses when not in use</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Heat or cool equipment before work starts</li> <li><input type="checkbox"/> Install barriers</li> <li><input type="checkbox"/> Provide warning signs</li> <li><input type="checkbox"/> Implement cold temperature and brittle failure controls</li> <li><input type="checkbox"/> Wear thermal gloves</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Wear correct hearing PPE</li> <li><input checked="" type="checkbox"/> Manage exposure times</li> <li><input checked="" type="checkbox"/> Shutdown equipment</li> <li><input checked="" type="checkbox"/> Use "quiet" tools</li> <li><input type="checkbox"/> Sound barriers or curtains</li> <li><input checked="" type="checkbox"/> Provide or use suitable communication techniques</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Use signs and barriers to restrict entry or access under work at elevation</li> <li><input checked="" type="checkbox"/> Use lifting equipment to raise tools to or from the work platform</li> <li><input checked="" type="checkbox"/> Secure tools (tie-off)</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Confirm lifting equipment condition and certification</li> <li><input type="checkbox"/> Obtain approval for lifts over processing equipment</li> <li><input type="checkbox"/> Have a documented and approved lift plan</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Discuss working at heights safe work practice</li> <li><input type="checkbox"/> Verify fall restraint and arrest equipment certification</li> <li><input type="checkbox"/> Apply abseiling safe work practice</li> </ul>
 <p><b>Portable Electrical Equipment</b></p>	 <p><b>Radiation Hazard</b></p>	 <p><b>Moving Objects or Equipment</b></p>	 <p><b>Manual Handling</b></p>	 <p><b>Equipment and Tools</b></p>	 <p><b>Vibrating Equipment</b></p>	 <p><b>Slips, Trips, and Falls</b></p>
<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Inspect equipment for condition and test date currency</li> <li><input checked="" type="checkbox"/> Implement continuous gas testing</li> <li><input checked="" type="checkbox"/> Protect electrical leads from impact or damage</li> <li><input checked="" type="checkbox"/> Use GFI's</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Use barriers and signs to restrict access</li> <li><input type="checkbox"/> Notify personnel who may be affected</li> <li><input type="checkbox"/> Implement NORM controls</li> <li><input type="checkbox"/> Conduct RAD testing</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Confirm machinery guard integrity</li> <li><input type="checkbox"/> Provide protective barriers</li> <li><input type="checkbox"/> Observer to monitor proximity of people and equipment</li> <li><input type="checkbox"/> Shut down or lockout equipment</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Assess manual handling task</li> <li><input checked="" type="checkbox"/> Limit load size</li> <li><input checked="" type="checkbox"/> Manage posture</li> <li><input checked="" type="checkbox"/> Confirm stability of load and work platform</li> <li><input checked="" type="checkbox"/> Get assistance or mechanical aid to avoid pinch points</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Inspect equipment and tools</li> <li><input checked="" type="checkbox"/> No use of modified tools</li> <li><input checked="" type="checkbox"/> Use protective guards</li> <li><input checked="" type="checkbox"/> Use correct tools and equipment for task</li> <li><input checked="" type="checkbox"/> Protect or remove sharp edges</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Manage exposure times</li> <li><input checked="" type="checkbox"/> Assess affect of vibration on equipment</li> <li><input checked="" type="checkbox"/> Use low vibration equipment</li> <li><input checked="" type="checkbox"/> Apply noise controls</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Identify and shield uneven surface or projections</li> <li><input checked="" type="checkbox"/> Secure or cover cables, cords, and tubing</li> <li><input checked="" type="checkbox"/> Clean up liquids</li> <li><input checked="" type="checkbox"/> Barricade or rope-off openings and holes</li> </ul>
 <p><b>High Energy or High Voltage</b></p>	 <p><b>Excavations</b></p>	 <p><b>Waste Clean Up and Disposal</b></p>	 <p><b>Other Energy Sources</b></p>	 <p><b>Mobile Equipment</b></p>	 <p><b>Other Hazards</b></p>	 <p><b>Emergency Response</b></p>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Restrict access to authorized personnel only</li> <li><input type="checkbox"/> Discharge equipment and make electrically dead</li> <li><input type="checkbox"/> Observe safe work distances for live cables</li> <li><input type="checkbox"/> Use flash burn PPE suit</li> <li><input type="checkbox"/> Use insulated gloves, tools, and mats</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Have an excavation plan or safe work practice</li> <li><input type="checkbox"/> Locate underground pipes or cables by hand digging</li> <li><input type="checkbox"/> De-energize underground services</li> <li><input type="checkbox"/> Implement confined space entry controls</li> <li><input type="checkbox"/> Barricade/Flag open excavations</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Apply environmental management practices</li> <li><input checked="" type="checkbox"/> Follow site waste management procedures</li> <li><input checked="" type="checkbox"/> Clean up equipment and materials at site</li> <li><input checked="" type="checkbox"/> Optimize task to minimize waste production</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Spring compression or expansion control</li> <li><input type="checkbox"/> Implement electromagnetic (radio) controls</li> <li><input type="checkbox"/> Manage pressure or vacuum</li> <li><input type="checkbox"/> Manage heat generating processes</li> <li><input type="checkbox"/> Use seismic activity safe work practice</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Assess equipment condition</li> <li><input checked="" type="checkbox"/> Implement controls on users or access</li> <li><input checked="" type="checkbox"/> Limit and monitor proximity to live equipment or cables</li> <li><input checked="" type="checkbox"/> Manage overhead hazards</li> <li><input checked="" type="checkbox"/> Adhere to road and site rules</li> <li><input checked="" type="checkbox"/> 3-point contact when entering/exiting mobile equip.</li> <li><input checked="" type="checkbox"/> Driver security</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Implement abrasive blasting controls (for equipment and practices)</li> <li><input type="checkbox"/> Establish a driver journey management plan</li> <li><input type="checkbox"/> Manage potential blocked or plugged equipment</li> <li><input type="checkbox"/> MOC required for temporary connections or modifications</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Keep egress route open</li> <li><input checked="" type="checkbox"/> Keep shower and eye wash stations accessible</li> <li><input checked="" type="checkbox"/> Have a rescue plan in place</li> <li><input checked="" type="checkbox"/> Keep emergency alarm, fire equipment, and shutdown locations unobstructed</li> <li><input checked="" type="checkbox"/> Plan for emergency first aid in place</li> <li><input checked="" type="checkbox"/> Remote Medi-vac plan in place</li> </ul>

# **APPENDIX F**

## **Safety Data Sheets**

# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product Name:** CAPSUR  
**Recommended Use:** PCB removal  
**Supplier:** Integrated Chemistries  
P.O. Box 10558  
White Bear Lake, MN 55110  
**Phone:** 651-426-3224  
**Emergency Phone:** CHEM-TEL, INC.  
Domestic: 800-255-3924  
International: 813-248-0585

## 2. HAZARDS IDENTIFICATION

### Classification

Aspiration hazard	Category 2
Flammable liquid	Category 4
Skin Irritation	Category 3

### GHS Label Elements

**Signal word:** Warning

**Pictogram:**



### **Hazard statements:**

May be harmful if swallowed and enters airways.  
Combustible liquid.  
Causes mild skin irritation.

### **Precautionary statements:**

#### **Prevention:**

Keep away from flames and hot surfaces, No smoking  
Wear protective gloves and face protection

#### **Response:**

In case of fire: Use foam, carbon dioxide or water fog to extinguish

IF SWALLOWED: Immediately call a doctor or Poison Center.

Do not induce vomiting

If skin irritation occurs: Get medical attention.

#### **Storage :**

Store in a well-ventilated place.

Store locked up.

Keep cool.

#### **Disposal:**

Dispose of container in accordance with local, state and federal regulations.

---

### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Weight %</b>
Solvent blend	Proprietary	~50
Tall oil fatty acid	61790-12-3	~8
Potassium hydroxide	1310-58-3	~2
Dodecylbenzene sulfonic acid	27176-87-0	~6
Aminoethanol	141-43-5	~6
Tetrapotassium polyphosphate	7320-34-5	~4

---

### **4. FIRST AID MEASURES**

#### **First aid measures for different exposure routes**

**Eye contact:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**Skin contact:** Rinse the contaminated area thoroughly with water.

**Ingestion:** If swallowed, call a poison control center/doctor. Do not induce vomiting.

**Inhalation:** Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration.

#### **Most important symptoms/effects, acute or delayed**

Skin: Causes mild skin irritation.

Ingestion: May be harmful if swallowed and enter airways.

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### **5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:** Foam, carbon dioxide, water fog

**Unsuitable Extinguishing Media:** Water stream may be unsuitable.

Use water to cool fire-exposed containers

---

### **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions**

Wear protective gloves and face protection. Spilled material is slippery; use care to avoid falling.

#### **Environmental precautions**

Prevent spills from entering storm sewers and drains or contact with soil.

#### **Methods for cleaning up**

For small spills mop up as much as possible and flush area with water.

For large spills, soak up with absorbent. Shovel into waste containers. Flush area with water.

---

## **7. HANDLING AND STORAGE**

Avoid contact with eyes. Avoid prolonged or repeated skin contact. Use in well-ventilated area away from all ignition sources. No smoking.

Store at temperatures between 55 and +100°F. Store only in the original container, locked up in a cool, well ventilated place.

---

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Eye protection and impervious gloves should be worn.  
Eyewash stations and safety showers should be readily accessible.

---

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance (physical state, color, etc.)	Fluorescent green liquid
Odor.	Solvent
Odor threshold.	No data available
pH.	11
Melting point/freezing point.	No data available
Initial boiling point and boiling range.	No data available
Flash point.	145° F
Evaporation rate.	No data available
Flammability (solid, gas).	No data available
Upper/lower flammability or explosive limits.	No data available
Vapor pressure.	No data available
Vapor density.	No data available
Relative density.	0.97
Solubility(ies).	Dispersible
Partition coefficient: n-octanol/water.	No data available
Auto-ignition temperature.	No data available
Decomposition temperature.	No data available
Viscosity	No data available

---

## **10. STABILITY AND REACTIVITY**

### **Chemical stability**

Product is stable.

### **Conditions to avoid**

No data available.

### **Hazardous decomposition products**

No data available.

### **Incompatible materials**

Avoid contact with oxidizers, such as bleach.

---

## **11. TOXICOLOGICAL INFORMATION**

Likely routes of exposure are eyes & skin.

### **Skin contact**

Causes mild skin irritation.

---

## **11. TOXICOLOGICAL INFORMATION (continued)**

### **Delayed and chronic effects from short and long term exposure**

No data available.

### **Carcinogens or suspected carcinogenic ingredients**

None

---

## **12. ECOLOGICAL INFORMATION**

No data available.

---

## **13. DISPOSAL CONSIDERATIONS**

Prevent product from entering storm sewers and drains or contact with soil.  
Dispose of container in accordance with local, state and federal regulations.

---

## **14. TRANSPORT INFORMATION**

DOT Classification: Compounds, Cleaning Liquid, NOI

---

## **15. REGULATORY INFORMATION**

### **TSCA**

All components are listed.

### **EPA SARA Title III Section 313**

This product contains the following listed ingredients:

Naphthalene 91-20-3  
Glycol ether EB 111-76-2  
Cyclohexanol 108-93-0

### **California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

This product contains the following chemicals known to the State of California to cause cancer:

Naphthalene 91-20-3  
Diethanolamine 111-42-2

---

## **16. OTHER INFORMATION**

Prepared by Thomas Jones  
Conforms to GHS standard  
May 18, 2015

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
 Trade name : Kleen Greene  
 Product code : 8135

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Synthetic Labs  
 24 Victory Lane  
 Dracut, MA 01826 - United States  
 T 800.255.4050 - F 978.957.5122  
[info@syntecpro.com](mailto:info@syntecpro.com) - [www.syntecpro.com](http://www.syntecpro.com)

#### 1.4. Emergency telephone number

Emergency number : 800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Serious eye damage/eye irritation Category 2B Causes eye irritation

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Signal word (GHS-US) : Warning  
 Hazard statements (GHS-US) : Causes eye irritation  
 Precautionary statements (GHS-US) : Wash hands, forearms and face thoroughly after handling  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Ethylene Glycol Monobutyl Ether	(CAS-No.) 111-76-2	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:vapour), H313 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Alcohols, Ehoxylated	(CAS-No.) 68439-46-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

# Kleen Greene

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after eye contact : Mild eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Alcohols, Ehoxyated (68439-46-3)		
ACGIH	ACGIH TWA (ppm)	1 ppm
OSHA	OSHA PEL (TWA) (ppm)	1 ppm
OSHA	OSHA PEL (STEL) (ppm)	5 ppm
NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>

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### Ethylene Glycol Monobutyl Ether (111-76-2)

ACGIH	ACGIH TWA (ppm)	20 ppm (2-Butoxyethanol (EGBE); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
-------	-----------------	---

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Green
Odor	: Fresh
Odor threshold	: No data available
pH	: 10
pH solution	: 11 - 11.5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.03 g/m <sup>3</sup>
Molecular mass	: 1.03 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

# Kleen Greene

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Alcohols, Ehoxyated (68439-46-3)	
LD50 oral rat	1378 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	1378.000 mg/kg body weight

Ethylene Glycol Monobutyl Ether (111-76-2)	
LD50 oral rat	1746 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	2.2 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	450 ppm/4h (Rat; Experimental value)
ATE US (oral)	1746.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	450.000 ppmV/4h
ATE US (vapors)	2.200 mg/l/4h
ATE US (dust, mist)	2.200 mg/l/4h

Skin corrosion/irritation : Not classified  
pH: 10

Serious eye damage/irritation : Causes eye irritation.  
pH: 10

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Ethylene Glycol Monobutyl Ether (111-76-2)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after eye contact : Mild eye irritation.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Ethylene Glycol Monobutyl Ether (111-76-2)	
LC50 fish 1	1474 ppm (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Static system; Fresh water; Experimental value)
EC50 Daphnia 1	1550 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	911 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
Threshold limit algae 2	88 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

#### 12.2. Persistence and degradability

Alcohols, Ehoxylated (68439-46-3)	
Persistence and degradability	Readily biodegradable in water.

Ethylene Glycol Monobutyl Ether (111-76-2)	
Persistence and degradability	Readily biodegradable in water. Low potential for adsorption in soil. Photooxidation in the air.

#### 12.3. Bioaccumulative potential

Alcohols, Ehoxylated (68439-46-3)	
Bioaccumulative potential	No bioaccumulation data available.

Ethylene Glycol Monobutyl Ether (111-76-2)	
Log Pow	0.81 (Test data; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

#### 12.4. Mobility in soil

Ethylene Glycol Monobutyl Ether (111-76-2)	
Surface tension	0.065 N/m (20 °C; Calculated value)

#### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.  
GWPmix comment : No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not applicable

#### Transportation of Dangerous Goods

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

# Kleen Greene

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### Alcohols, Ehoxyated (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

### Ethylene Glycol Monobutyl Ether (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

### CANADA

#### Alcohols, Ehoxyated (68439-46-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Ethylene Glycol Monobutyl Ether (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

No additional information available

## 15.3. US State regulations

### Ethylene Glycol Monobutyl Ether (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 03/23/2017

Full text of H-phrases:

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H331	Toxic if inhaled

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability : 0 Minimal Hazard - Materials that will not burn  
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

# **APPENDIX G**

## **Waste Manifests, Certificates of Disposal and US EPA Notice**



Shawn C Crosbie  
UIL Holdings Corporation  
Project Manager of Remediation – CT/MA

May 9, 2018

Kimberly N. Tisa, PCB Coordinator  
US EPA Region 1  
5 Post Office Square, Suite 100  
Boston, MA 02109-3912

**RE: 30 Day Notification to Commence  
Completion of PCB Concrete Remedial Action at Station B:**  
English Station Facility  
510 Grand Avenue – New Haven, CT

Dear Ms. Tisa:

This letter serves as the 30 day notification required under 40 CFR Part 761.61(a)(3)(i) by the United Illuminating Company (UI) to commence the with the polychlorinated bi-phenyl (PCB) remediation activities described in the "Remedial Action Plan AOC-1 – Station B Completion of Concrete Removal" (Plan) transmitted to you by UI on March 16, 2018. The Plan addresses the removal of the remaining concrete containing PCBs equal to or greater than 1 part per million (ppm) in the Station B building. On March 23, 2018 UI followed up with additional figures and clarification on verification sampling, which are also applicable. UI is in receipt of your e-mail dated April 10, 2018 with comments regarding additional verification sampling recommendations and other comments pertaining to Parcel A and Parcel B at the site. Your recommendation for four (4) additional verification samples at the following designated locations is included in the work to be performed to complete the clean-up activities: 1CO-666; 1CO-682; 1CO-676; and 1-CO-691.

In accordance with Partial Consent Order (PCO) COWSPCB 15-001 with the Connecticut Department of Energy and Environmental Protection (CTDEEP), UI is responsible for the activity described in the Plan. The site owner, Evergreen Power, LLC is not a party to the PCO and therefore will have no role in the implementation of the Plan. UI contacts and other parties that will be acting on UI's behalf to implement the Plan include:

**United Illuminating Company**

180 Marsh Hill Road  
Orange, CT 06477  
Shawn Crosbie – Project Manager of Remediation CT/MA (UI) – (860)904-8551

**Contractor – Remediation and Waste Management**

Clean Harbors Environmental Services, Inc.  
770 Derby Avenue  
Seymour, CT 06483  
Contact: Russell P. Alain III – Field Service Project Manager - (203)752-7553

**Waste Disposal Facility**

EQ – Wayne Disposal, Inc.  
49350 North I-94 Service Drive  
Belleville, Michigan 48111  
EPA ID No. MID048 090 633

**Environmental Consultant – Oversight & Verification Sampling**

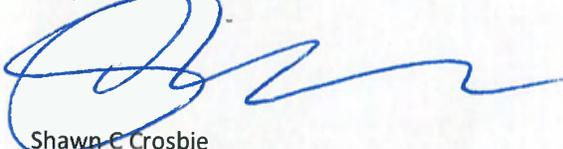
TRC Environmental Corporation  
21 Griffin Road North  
Windsor, CT 06095  
Contact: Carl N. Stopper, PE, VP – Sr. Project Manager – (860)798-4272

A copy of the Clean Harbors Environmental Services Site Specific Health and Safety Plan, with Job Hazard Assessment is attached with this notice.

With regard to your questions pertaining to Parcel A and Parcel B, UI is in the process of compiling sampling data and formulating plans to address PCBs in the soil and sediment for both parcels. We will schedule a meeting with you and the CTDEEP to present the approaches being developed to address both parcels before moving forward with any additional submissions.

If you have any questions please contact me via phone at (860)904-8551 or via e-mail at [shawn.crosbie@uinet.com](mailto:shawn.crosbie@uinet.com).

Very Truly Yours,



Shawn C Crosbie  
UIL Holdings Corporation:  
Project Manager of Remediation – CT/MA

Cc: Gary Trombly, CTDEEP  
Toni Harp, Mayor – City of New Haven, CT

CHRT 24531

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number <b>CTW000517375</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>(800)483-3718</b>	4. Manifest Tracking Number <b>011909226</b> <b>FILE</b>				
5. Generator's Name and Mailing Address <b>United Illuminating Company 180 Marsh Hill rd Orange, CT 06477</b>				Generator's Site Address (if different than mailing address) <b>510 Grand Ave New Haven, CT 06513</b>					
Generator's Phone: <b>(203)209-8254</b>									
6. Transporter 1 Company Name <b>TONAWANDA TANK TRAVEL SERVICE</b>					U.S. EPA ID Number <b>NYD097642301</b>				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address <b>Wayne Disposal Inc. 49350 North J-94 Service Dr. Belleville, MI 48111</b>					U.S. EPA ID Number <b>MI0048090633</b>				
Facility's Phone: <b>(800)592-5489</b>									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		No.	Type						
X	1. <b>UN3432, Polychlorinated Biphenyls, Solid, 9, PGIII</b>	1		Est 10000	K	CRO1	CRO5		
	2.					PCB1			
	3.								
	4.								
14. Special Handling Instructions and Additional Information <b>Out of Service 8/8/18</b> <b>Unique = 0808129226</b> <b>Profile # H188043WDI</b>									
15. <b>GENERATOR'S/OFFEROR'S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name <b>Shawn C. Crooke</b>					Signature 		Month <b>8</b>	Day <b>10</b>	Year <b>18</b>
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name <b>Jeffrey J. Wank</b>					Signature 		Month <b>08</b>	Day <b>20</b>	Year <b>18</b>
Transporter 2 Printed/Typed Name					Signature		Month	Day	Year
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____									
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name					Signature		Month	Day	Year

# CERTIFICATE OF DISPOSAL

**FOR MANIFESTED PCB WASTE**

This certificate is to verify the wastes identified as PCB Solids  
and specified on Manifest # 011909226ELE, Line Item 1 has been landfilled on  
8-17, 18 in accordance with all local, state and federal regulations by:

**Wayne Disposal, Inc**  
(EPA I.D. # MID048090633)

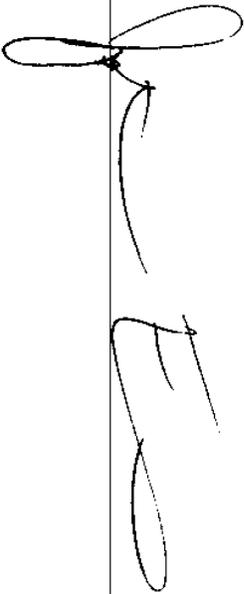
49350 N. 194 Service Drive, Belleville, Michigan 48111

Telephone: 800-592-5489

Fax: 800-593-5329

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:

  
\_\_\_\_\_

80710

1812717103

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number C-0326614494	2. Page 1 of 1	3. Emergency Response Phone (800) 453-3701	4. Manifest Tracking Number 011906229 <b>FLE</b>		
5. Generator's Name and Mailing Address 150 Murchison Ave Orange, CT, 06477 Generator's Phone: (860) 904 8531				Generator's Site Address (if different than mailing address) 310 Grand Street Newtown, CT, 06453			
6. Transporter 1 Company Name Clean Harbor Environmental Service, Inc.				U.S. EPA ID Number MA12039320250			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address Clean Harbor Environmental Service - Inc 310 Grand Street, Newtown, CT Facility's Phone: (860) 553-8917				U.S. EPA ID Number CTD000604486			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
	1. Non DOT (Residue - Munitions/Explosives)	7	DM	335	G	CFR	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information C-1142 7 x 22 DM							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Matthew T. ...				Signature <i>[Signature]</i>		Month Day Year 8/17/18	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
17. Transporter Acceptance Transporter 1 Printed Name Transporter 2 Printed Name				Signature <i>[Signature]</i>		Month Day Year 8/17/18	
18. Discrepancies 18a. Discrepancies <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____ Month Day Year: _____							
19. Hazardous Waste Manifest (for treatment, disposal, and recycling systems) 3. _____ 4. _____							
20. Designated Facility Name Printed/Typed Name				Signature <i>[Signature]</i>		Month Day Year 8/17/18	

GENERATOR  
TRANSPORTER INT'L  
DESIGNATED FACILITY

Station B  
Drum Manifest  
& Clean Harbors  
Paperwork  
8/17/18



Clean Harbors of Connecticut Inc  
 51 Broderick Road  
 Bristol CT, 06010  
 CTD000604488  
 (860) 583-8917

**CERTIFICATE OF DISPOSAL**

Manifest Mailing Name : United Illuminating Company  
 Manifest Mailing Address: 510 Grand Avenue  
 New Haven, CT 06511  
 Job Address: 510 Grand Avenue  
 New Haven, CT 06511  
 Customer Contact Name: Mr Paul Slawski  
 Generator Contact Name:  
 Sales Order #: 1802715965  
 Date Received: 8/17/2018  
 Generator EPA ID: CTW000517375  
 Manifest #: 011906229FLE

Line #	Profile/Description	Disposal Date	Method of Disposal	Disposal Facility
1	CH1192805 Oil and Water 0-50 PPM PCB'S	8/23/2018	SHIP	BFI - Niagara Landfill Inc
1	CH1192805 Oil and Water 0-50 PPM PCB'S	8/30/2018	Dischsрге to Sewer/POTW or NPDES	Bristol, CT Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Name: Paul A. Wells  
 Title: VP Environmental Applications  
 Date: Saturday, September 01, 2018