PCB Investigation Final Report

Chemtura Corporation

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1 Introduction

WSP Engineering of New York, P.C. (WSP) operates a steam enhanced dual-phase extraction (DPE) with steam injection remediation system at the former Chemtura corporation facility located at 688-700 Court Street in Brooklyn, New York. The DPE with steam injection system is operated in accordance with an Order on Consent (No. R2-0346-98-01) between Chemtura and the New York State Department of Environmental Conservation (NYSDEC), and the April 4, 2003, Corrective Measures Implementation Plan (CMIP). The CMIP provided design, operating, and performance monitoring specifications to remediate the primary organic chemicals of concern (COCs) identified in soil and groundwater at the site (benzene, toluene, xylenes, acetone, phenol, and naphthalene).

WSP retains Phillip Services Corporation (PSC) for cleaning, transportation, and recycling of the Light non-aqueous phase liquid (LNAPL) /water mixture that is recovered from the oil-water separator and product tank during the DPE remediation system operation. PSC transports the material in a tanker truck to its facility in Hatfield, Pennsylvania. PSC collects a sample of the LNAPL/water mixture from the tanker truck, which is analyzed to ensure compliance with the waste profile completed by WSP Engineering[1] on behalf of Chemtura in November 2004 and approved by PSC under lab code No. 1L68534. On July 25, 2007, PSC removed approximately 468 gallons of liquid from the oil-water separator and product tank as part of routine cleaning and system maintenance activities. The sample of the LNAPL/water mixture collected by PSC from the July 25, 2007 cleaning contained 788 parts per million (ppm) polychlorinated biphenyls (PCBs). The detection of PCBs was unexpected. Analytical results from prior cleanings conducted in May 2005, November 2005, March 2006, June 2006, and September 2006 contained no detectable concentrations of PCBs above the method detection limit. The NYSDEC and US EPA personnel associated with this project were promptly notified of the PCB detection.

The remediation system was shut down on July 30, 2007, pending an investigation into the source of the PCBs. Zone 2 extraction wells E-8, E-9, E-10, E-12, E-13, E-15, and E-16 and injection wells I-11, I-12, I-13, I-15, I-16, I-17, I-19, and I-20 were in operation during the period when the oil/water mixture was accumulated before the system was shut down (Figure 1). Concurrent with the system shutdown in July 2007, WSP Engineering collected Light Non-aqueous Phase Liquid (LNAPL) samples from Zone 2 extraction well E-16 and Zone 3 extraction well E-19 for PCB analysis by U.S. Environmental Protection Agency (EPA) Method 8082. Wells E-16 and E-19 contained 0.42 feet and 0.32 feet of LNAPL prior to sample collection. The LNAPL sample collected from well E-16 contained 94.7 milligrams per kilogram (mg/kg) total PCBs. The LNAPL sample from well E-19 contained 35.8 mg/kg total PCBs (Table 1).

WSP conducted three iterative rounds of soil investigation in response to the detection of PCBs in the waste oil/water mixture sampled by PSC and the detections in the LNAPL samples collected from E-16 and E-19:

- initial PCB Soil and LNAPL Investigation – October through November 2007
- supplemental PCB Soil Investigation – September 2008
- additional Delineation Soil Investigation – May 2009

The remainder of Section 1 summarizes current and potential future property use, historical detections of PCBs in environmental media at the site and a brief discussion on the former use of PCBs by Chemtura as part of historical facility operations. Section 2 of the report summarizes the results of the three rounds of investigation at the site to define the aerial and vertical extent of PCBs in soil. Section 3 includes a

[1] WSP Engineering of New York, P.C. operated under the name ESC Engineering of New York, P.C. at the time of the waste code approval.

detailed conceptual analysis of the spatial distribution of PCBs in the subsurface and a technical review of potential remedial options to address the addition of PCBs to the primary list of COCs at the site.

1.1 SITE LOCATION AND DESCRIPTION

The site is located at 688-700 Court Street in Brooklyn, New York and consists of numerous vacant, occupied, and demolished buildings located on 5.5 acres. The site, which is covered with concrete, asphalt, and demolition debris, has been used for industrial and commercial purposes since approximately 1904. Between 1904 and 1958, the property was used as a lumberyard, marine canvas supply business, and an iron works facility. From 1958 until the mid-1960s, the site was owned by Argus Chemical Laboratory, which manufactured vinyl stabilizers and plastic additives. During the mid-1960s, Witco Corporation purchased Argus Chemical Laboratory. Witco Polymer Additives Group continued manufacturing plastic additives at the facility until 1999, when plant operations ceased. Witco later merged with Cromtpon & Knowles and, eventually, the merged company became known as Crompton Corporation. Chemtura Corporation was formed in 2005 with the merger of Crompton Corporation and Great Lakes Chemical Corporation. The facility has subsequently been decommissioned and all former chemical storage and process tanks were decontaminated and removed from the facility as described in the May 2001 Closure Plan by Enviro-Science, Inc. The property was purchased by VIP Builders LLC in June 2004 and is currently used for light manufacturing of steel and stone building products. Currently, only two warehouse buildings (Building 16 and Building 17) are used by VIP Builders for manufacturing operations (Figure 1).

The property is in a generally industrialized area in the Red Hook section of Brooklyn, New York. The site is bordered to the east by Court Street then Brooklyn Union Gas and Spentonbush Red Star Companies; to the west by Clinton Street then American Import/Export Trucking; and to the south by Bryant Street then Hess Oil Company. Red Hook Recreational park is located immediately north of the site across Halleck Street. Most of the adjacent and contiguous properties perform heavy industrial operations including petroleum terminals, machining and manufacturing, and waterfront industries.

VIP Builders has indicated to Chemtura and WSP Engineering a desire to redevelop all or a portion of the property. WSP Engineering and Chemtura met with representatives of the current property owner on May 8, 2008 to present the results of the initial PCB investigation described in Section 2. The property owners indicated that no specific development plans were available but that the property is expected to ultimately be redeveloped for commercial and/or industrial use.

1.2 HISTORICAL PCB USE

According to a March 1988 Phase I environmental site assessment (ESA) conducted at the site for Witco (Witco is a predecessor company to Chemtura) by Fluor Daniel GTI, Inc., two pad-mounted dry transformers located in Buildings 16 and 19 were used at the facility, but did not contain PCBs. However, PCB-containing oils were reported to have been used in hot oil systems located at 633 and 688 Court Street. Three hot oil systems were located in areas currently encompassed by Zone 2 (Figure 1):

- On the south side of Building 14
- Along the west side of Building 13
- On the west side of Building 16

According to the Phase I report, the use of all PCB-containing oils ceased in the 1980s per corporate Witco direction requiring the removal of all PCB-containing oils from all plants. Chemtura conducted a search of its records related to historic operations at the plant and found no relevant operational configuration or piping layout regarding past use or distribution of PCBs in the hot oil system.

1.3 HISTORICAL PCB DETECTIONS

As part of a Phase II site investigation conducted by Enviro-Sciences, Inc., in 1999 soil samples were collected from the 0-to-2-foot and 2-to-4-foot interval at SB-13, SB-14, SB-18, SB-19, and SB-42 (Figure 2). Only the sample collected from SB-13 at 2 to 4 feet contained PCBs at 53 mg/kg above the NYSDEC Technical and Administration Guidance Memorandum 4046 – Determination of Soil Cleanup Objectives and Cleanup Levels, recommended subsurface cleanup objective of 10 mg/kg, which was the applicable comparative value at the time. Each of these sample locations are in the general vicinity of the former hot oil systems, but most are outside the building where the hot oil systems were located. In addition, these soil samples were collected in unsaturated soils above the groundwater table.

A groundwater sample was collected on July 31, 2007, from well E-5 as part of the quarterly compliance monitoring program for the southern portion of Zone 2. The groundwater sample collected from E-5 was analyzed for PCBs and contained 17.4 micrograms per liter (µg/l) total PCBs. The groundwater sample collected at E-5 during the May 2007 quarterly compliance monitoring was also analyzed for PCBs and contained 7.3 µg/l total PCBs. There was no LNAPL present in well E-5 during either sampling event. Table 1 summarizes all PCB detections in soil and groundwater at the site prior to the initial PCB soil and LNAPL investigation conducted in October 2007.

2 PCB Investigation Results

WSP conducted three iterative rounds of soil investigation in response to the detection of PCBs in the waste oil/water mixture sampled as part of routine system operation. The initial soil investigation was conducted between October and November 2007 and was designed to determine the horizontal extent of PCBs in the subsurface. A grid system based on an interval of 20 feet was used for each round of investigation to determine sampling locations, with the center of the grid corresponding with the center of the sampling area, and the grid lines running north-south and east-west. Results of the initial investigation were presented to the NYSDEC and EPA Region 2 PCB Coordinator in a letter dated March 13, 2008 and in a meeting on April 8, 2008 at the NYSDEC headquarters in Albany, New York. The initial investigation also included well gauging of all the extraction wells onsite and sampling of the LNAPL for PCBs if present in the extraction well.

On August 18, 2008, WSP submitted a supplemental PCB investigation work plan to the NYSDEC and EPA Region 2 PCB Coordinator. The supplemental investigation was designed to complete the horizontal delineation of PCB impacts to soil at the site and begin vertical delineation of PCB concentrations greater than or equal to a screening value of 10 mg/kg. The screening value assumed that the proposed end use of the site may include (1) both high and low occupancy areas as defined under 40 CFR §761.61(a) and (2) a cleanup activity that includes the use of institutional controls.

WSP conducted the supplemental investigation in September 2008 and preliminary/draft results were presented to the NYSDEC and EPA Region 2 PCB Coordinator in a letter dated January 22, 2009. The January 22, 2009 letter also included a work plan for a limited additional delineation investigation to further refine the spatial distribution of PCBs at the site and gather sufficient data to begin a technical review of potential remedial options. WSP conducted the additional delineation investigation in May 2009.

General sampling and analysis procedures common to each round of investigation are described below. Specific sampling procedures unique to each investigation are presented in subsequent sections.

2.1 GENERAL INVESTIGATION PROCEDURES

Soil borings and samples were installed and collected using direct-push sampling equipment and a macro-core sampler. Continuous soil samples were logged in the field for color, texture, and moisture content in accordance with the Unified Soil Classification System and screened in the field for organic vapors using a photoionization detector (PID). Boring logs for each round of investigation are provided in Appendix A. The soil lithology at the site generally consists of grayish to black sands and gravels with trace amounts of silts and clays. This material represents historic New York City fill and includes varying amounts of miscellaneous debris (e.g. ash, slag, coal, wood, brick, concrete, etc.).

All samples were submitted under WSP's strict chain-of-custody procedures and analyzed for PCBs by EPA Method 8082 by TestAmerica Inc., in Pittsburgh, Pennsylvania (initial investigation) or TestAmerica in North Canton, Ohio (supplemental and additional delineation investigations). Field sampling procedures, laboratory handling, analytical protocols, data reduction, validation, and reporting were conducted in accordance with the Quality Assurance Project Plan (QAPP) for the site, dated July 30, 2002. Electronic copies of the NYSDEC analytical services protocol compliant Category B deliverables are provided as Appendix B. A Data Usability Summary Report (DUSR) is provided for each laboratory analytical package in Appendix C.

2.2 INITIAL SOIL INVESTIGATION – OCTOBER – NOVEMBER 2007

2.2.1 Investigation Summary

WSP originally proposed the completion of 175 borings based on a grid interval of 20 feet; however, only 134 borings were completed due to inaccessibility of the grid area and/or localized concrete thickness beyond the coring capability of the direct-push rig and concrete boring machine. Each boring was advanced down to groundwater, which ranged between 6 and 9 feet below ground surface (bgs) across the site. Soil samples were collected from the 6-inch interval just above the groundwater interface, as determined by a WSP hydrogeologist.

2.2.2 Results

Table 2 provides a summary of the results from each grid sampled during the initial soil investigation. Six soil samples contained PCBs greater than 50 mg/kg (I-3, K-8, M-6, M-7, L-8, and M-10) with a maximum concentration of 320 mg/kg collected from I-3 at a depth of 5.5 to 6 feet bgs. Twelve samples contained PCBs between 10 mg/kg and 50 mg/kg. Forty one samples contained PCBs between 1 mg/kg and 10 mg/kg, and 74 out of 134 samples contained PCBs at less than 1 mg/kg or were not detected above the method reporting limit (non-detectable).

2.3 LNAPL SAMPLING – NOVEMBER 2007

During a meeting on November 6, 2007, between Chemtura, the NYSDEC, and WSP; Chemtura agreed that delineation of PCB-affected LNAPL across the site was warranted based on the results of LNAPL sampling conducted in May 2007. The May 2007 sampling event detected total PCB concentrations of 94.7 mg/kg and 35.8 mg/kg in LNAPL samples collected from extraction wells E-16 and E-19, respectively (Table 1). Between November 17, 2007 and January 16, 2008, WSP conducted a LNAPL survey of all accessible injection (30 total) and extraction wells (31 total) located within Zones 2 and 3. Two extraction wells (E-20 and E-26) and five injection wells (I-26, I-28, I-32, I-36, and I-30) were inaccessible and could not be gauged due to property owner materials and equipment staged over these locations. Each well was gauged with a product level meter to determine if LNAPL was present in the well. If present, the thickness of the LNAPL was measured, recorded, and a sample of the LNAPL submitted to Test America, Inc., in Pittsburgh, PA for PCB analysis by EPA Method 8082. WSP did not gauge extraction or injection wells located in Zones 1 and 4 since they have already been treated with the remedial system and previous compliance sampling in these areas have not indicated the presence of LNAPL.

Ten extraction and injection wells contained a measurable quality of LNAPL (Table 3). Seven wells (E-10, E-30, E-31, E-32, I-23, I-34, and I-38 were observed to contain residual LNAPL. These wells did not elicit a response on the product level meter but residual oil was visible on the meter upon removal from the well. PCB samples were not collected from these wells due to inadequate sample volume. In addition, WSP Engineering was unable to collect sufficient sample volume for analysis from extraction wells E-9 and E-12, both of which contained a measurable quality of LNAPL (0.08 foot and 0.2 foot respectively). The maximum product thickness was observed at extraction well E-19 (1.85 feet). Figure 3 shows the approximate distribution of LNAPL within Zones 2 and 3. In Zone 2, 9 out of 16 extraction wells contained measurable or residual LNAPL and in Zone 3, 5 out of 18 extraction wells contained measurable or residual LNAPL. All eight LNAPL samples collected contained detectable concentrations of PCBs with a maximum concentration of 450 mg/kg collected at E-14.

2.4 SUPPLEMENTAL SOIL INVESTIGATION – SEPTEMBER 2008

2.4.1 Investigation Summary

WSP installed 85 soil borings and collected approximately 585 samples at the site between September 15 and September 26, 2008 in accordance with the August 18, 2008 revised work plan. Each location was cored as necessary using a concrete coring machine or a direct push vehicle mounted probe unit equipped with a rotary concrete drill bit. All borings were advanced down to groundwater, which ranged between 6 and 9 feet bgs and was consistent with the October 2007 initial investigation. In addition, four of the borings (M-10, I-3, G-8, and B-12) were advanced to a total depth of 18 feet bgs to correspond with the total depth of adjacent extraction wells and the top of the continuous silt-clay layer (former base of the Gowanus Canal). Each sample was collected by homogenizing a 1-foot section of soil core in either a disposable stainless steel bowl or a one use 1-gallon Ziploc bag before being transferred to the appropriate laboratory supplied glassware. Samples received by the laboratory were either analyzed immediately or extracted and placed on a laboratory hold pending the results of other analysis.

WSP collected vertical samples at several grid locations that were previously sampled during the initial investigation, but had only been sampled from the 6 inch interval above the groundwater interface. Samples were also collected from previously un-sampled grid locations surrounding grids where the initial investigation indicated the presence of PCBs above the screening value of 10 mg/kg. In addition, WSP collected vertical samples at several boring locations across the site to confirm the absence of PCBs in areas where historic PCB data or initial investigation sampling data indicated little to no subsurface impact.

WSP also collected 37 surficial samples across the site as shown on Figure 3. Each of the locations was on concrete and the sampling was conducted in accordance with the EPA Region 1 draft guidance document *Standard Operating Procedure for Sampling Concrete in the Field.* A 2-inch diameter carbide drill bit was used in a rotary impact hammer to generate a fine concrete powder at each location from the upper 6 inches of surficial material.

2.4.2 Results

Table 4 provides a summary of the results from each grid sampled during the supplemental soil investigation. WSP collected vertical delineation samples from 18 grid locations that contained a water interface sample with PCBs greater than 10 mg/kg during the initial investigation. Of these locations, 14 (D-5, D-6, I-3, J-3, K-1, K-8, L-7, L-8, L-10, M-6, M-7, M-9, M-10, and M-11) contained PCBs greater than 10 mg/kg at various 1-foot intervals above the water interface. The results show that the vertical distribution of PCBs is not confined to the water interface in the impacted areas. Four of the grid locations sampled during the initial investigation (E-5, F-5, H-5, and L-11) that contained PCBs above 10 mg/kg did not contain PCBs above 10 mg/kg across the entire soil column during the supplemental investigation. The concentration discrepancy at these locations is likely due to the homogenization of the 1-foot section of core compared to the grab sample collected from the water interface in the initial investigation.

Samples from 67 previously un-sampled grids were collected during the supplemental investigation and 18 (B-6, C-5, C-6, C-7, D-7, K-6, K-7, N-4, N-5, N-7, N-9, N-10, O-7, O-8, O-9, O10, V-12, and W-22) contained PCBs greater than 10 mg/kg in at least one interval. WSP identified an area on the west side of Building 17 (W-22) and an area on the east side of the treatment building (V-12) that contained PCBs greater than 10 mg/kg and proposed an additional delineation investigation to further refine the spatial distribution of PCBs in these areas (Section 2.5).

Samples were collected to a depth of 18 feet bgs from grid location I-3 and PCBs above 10 mg/kg were found in saturated soils to a depth of 14 feet bgs. This sample location is adjacent to extraction well E-8 which was operating prior to the system being shut down on July 30, 2007. As shown in Table 3, E-8 contained 0.6 foot of LNAPL and the LNAPL contained PCBs at 130 mg/kg. WSP believes the LNAPL

was likely dragged down through the saturated zone as water was extracted from E-8 during the normal course of system operation.

Samples were collected from 16 locations within Building 16 during the supplemental investigation. The March 1998 Phase I ESA conducted by Fluor Daniel GTI identified this area as possibly containing a PCB hot oil system. The results from samples collected inside Building 16 show PCBs are not present at concentrations greater than 10 mg/kg.

Samples collected from borings installed north of the site (Row N and Row O) indicated the presence of PCBs greater than 10 mg/kg at 9 locations (N-4, N-5, N-7, N-9, N-10, O7, O-8, O-9, and O-10) at various 1-foot intervals above the water interface with a maximum concentration of 97 mg/kg in the sample collected from 7 to 8 feet within grid O-8. WSP Engineering collected samples during the additional delineation investigation to further refine the spatial distribution of PCBs north of the site.

WSP collected 79 samples that contained PCBs at concentrations greater than 10 mg/kg and 39 samples with concentrations greater than 50 mg/kg. The samples with concentrations greater than 50 mg/kg were collected from grids generally located in the vicinity of Building 14 (I-3, K-7, K-8, L-7, L-8, M-6, M7, and M-9), but also include samples collected from grids immediately north of the site (N-7, N-9, O-7, O-8, O-9, and O-10) and from one grid in an isolated area south of Zone 2 (D-5). Twenty three samples collected during the supplemental investigation contained PCBs at concentrations greater than 100 mg/kg with a maximum concentration of 850 mg/kg in the sample from 9 to 10 feet bgs at grid I-3. All the samples with PCB concentrations greater than 100 mg/kg were collected from seven grids (I-3, K-7, K-8, L-7, L-8, M-6, and M-9) located in the general vicinity of Building 14 where a hot oil system was formerly located.

Table 5 shows the results of the surficial materials sampling. Of the 37 samples collected, 11 contained PCBs in the concrete between 1 and 10 mg/kg. The sample collected from grid K-8 contained PCBs at 2,000 mg/kg which indicates a probable source area. Soil samples collected at and surrounding this grid location during the supplemental investigation contained PCBs in excess of 10 mg/kg at intervals from the surface to the water table interface.

2.4.3 Data Usability

As described previously, 585 samples were collected as part of the supplemental investigation. In many of the borings only the 1 foot composite sample collected from above the groundwater interface was initially analyzed by the laboratory and the remaining 1 foot composite samples within the vertical profile were extracted and put on a laboratory hold. Samples placed on hold were only analyzed if the sample collected immediately below contained PCBs above the screening value of 10 mg/kg, or if a sample from the same depth collected from an adjacent grid contained PCBs above 10 mg/kg. Following this protocol, WSP and the laboratory believed that all of the samples collected could be analyzed if necessary within the proscribed holding time (40 days after extraction). However, due to complicated matrix interferences the laboratory was required to perform multiple runs on many of the samples which significantly delayed the receipt of preliminary results and therefore delayed the ability of WSP to remove samples from hold and to analyze in a timely manner.

WSP believes the data generated from samples analyzed outside the holding time are still valid and accurate given the long-term stability of PCBs in environmental media. All samples were extracted within the proscribed time frame of 7 days following sample collection.

Complicated matrix interferences were also the cause of the increased reporting limit in a number of samples (Table 4). However, excluding the sample collected from 7 to 8 feet at grid M-12, the maximum elevated reporting limit for a sample in which all Aroclors were reported as non-detect was 4.1 mg/kg (Grid N-11 from 5 to 6 feet), which is well below the 25 mg/kg low occupancy cleanup standard as addressed in Section 3.2. The reporting limit for the 7 to 8-foot sample collected from M-12 was 2,500 mg/kg and was due to significant and irreducible matrix interference. The samples collected above (3.2 mg/kg) and below (1.2 mg/kg) at the same sample location did not have similar interference issues and

provide a better indication of the actual PCB concentration within the 7 to 8-foot interval. WSP Engineering utilized the larger value of the 6 to 7-foot and 8 to 9-foot PCB concentrations for the distribution analysis described in Section 3 and shown on Figure 5.

The DUSR for the supplemental soil investigation is provided in Appendix C.

2.5 ADDITIONAL DELINEATION SOIL INVESTIGATION – MAY 2009

2.5.1 Investigation Summary

WSP installed 18 soil borings during the additional delineation investigation. The borings were installed in the three areas identified during the supplemental investigation that required additional characterization:

- North of the site parallel to Halleck Street (P-6 through P-11, O-3, N-3)
- In Building 17 surrounding Grid W-22 (X-22, X-23, V-22, V-23, W-23)
- East of the treatment building surrounding Grid V-12 (U-12, U-13, V-13, W-12, W-13)

All borings were advanced down to groundwater, which was generally shallower (4 to 8 feet bgs) than during both the initial and supplemental investigations (6 to 9 feet bgs). The shallower groundwater interface was more prominent in borings installed north of the site (Rows N, O, and P) and is consistent with historic groundwater depths seen in monitoring wells MW-18 and MW-19 installed in the same area. Additionally, unlike the initial and supplemental investigations which were conducted in early to late fall, the additional delineation investigation was conducted in the spring and seasonal variations may account for the slightly shallower minimum groundwater depth. Each sample was collected by homogenizing a 1-foot section of soil core in either a disposable stainless steel bowl or a one use 1-gallon Ziploc bag before being transferred to the appropriate laboratory supplied glassware.

2.5.2 Results

Table 4 provides a summary of the results from each grid sampled during the additional delineation soil investigation. Samples collected from 5 grid locations (P7, W12, W13, V22, and V23) contained PCBs at various 1 foot intervals above the groundwater interface.

WSP collected eight samples that contained PCBs at concentrations greater than 10 mg/kg and four samples with concentrations greater than 50 mg/kg. Only the sample from 3 to 4 feet bgs at grid P-7 located north of the site contained a PCB concentration (160 mg/kg) greater than 100 mg/kg.

3 Technical Evaluation

The sampling grids where at least one sample collected during the initial, supplemental, or additional delineation investigation containing PCBs above the screening value of 10 mg/kg are highlighted on Figure 4. The extensive amount of soil, concrete, and LNAPL data collected during the 3 rounds of investigation was used by WSP Engineering to generate a conceptual site model (CSM) framework regarding the source and distribution of PCBs in the subsurface. An initial CSM was developed based on the initial investigation and reported to the NYSDEC and EPA Region 2 PCB coordinator in the August 18, 2008 supplemental investigation work plan. WSP Engineering has refined the CSM based on the data collected during the supplemental and additional delineation investigations. In addition, sufficient data has been gathered to begin a dialogue with the NYSDEC on possible remedial options to address PCBs in the subsurface at the site.

3.1 CONCEPTUAL SITE MODEL

The CSM framework was developed using the data presented above and historical data garnered through the Phase I ESA conducted by Fluor Daniel GTI, Inc in March 1998 and the Phase II investigation conducted by Enviro-Science, Inc. from June 17, 1998 through April 2, 1999. The CSM provides an evaluation tool for understanding the distribution of PCBs in soil and LNAPL. WSP Engineering has subdivided the site into 4 PCB Areas of Concern (AOCs) as a means to more efficiently discuss the distribution of PCBs at the site (Figure 4):

- AOC 1 – north of the site and in the vicinity of Buildings 13, 14, and 15
- AOC 2 – the area immediately east of the treatment building
- AOC 3 – south of Buildings 12 and 13
- AOC 4 – west side of Building 17

The AOCs were created by grouping together grid locations that contained at least one soil sample above the screening value of 10 mg/kg and are not intended to presuppose remedial action to address the PCBs in each area. The approximate spatial distribution of PCBs in each AOC is shown on Figures 5 through 8.

The 1998 Phase I ESA identified the hot oil system that the PCBs are attributed to as having been operated in three areas of the site:

1. on the southern side of Building 14
2. on the western side of Building 13
3. on the western side of Building 16

The highest PCB concentrations and widest distribution in soil are found in AOC 1 and generally coincides with an area identified as formerly containing a hot oil system (i.e. south of Building 14 and in the vicinity of Building 13). The highest concentration of PCBs in concrete at the site (2,000 mg/kg) was found in the sample collected at grid K-8 within Building 14 (Table 5). Soil data from K-8 and adjacent grids (K-6, K-7, L7, L8) indicate PCB impacts to the shallow soil down to the groundwater interface (Figure 4 and Figure 5). This distribution is consistent with point source releases at a limited number of source areas (e.g., there are isolated areas of high concentrations in soils down to the water table that decrease quickly in concentration with horizontal distance). The extraction wells within AOC 1 that contained LNAPL and which were subsequently sampled for PCBs (E-7, E-8, E-11, E-13, and E-14) all contained measurable concentrations of PCBs ranging from 1.6 mg/kg to 450 mg/kg. The highest LNAPL concentration (450 mg/kg) was found in the sample from E-14, which is within Building 14 and

within/near grid K-7 and K-8. The concrete sample collected from grid M-4 contained PCBs at 7.6 mg/kg and potentially indicates the presence of an additional point source for the PCBs found in the soils north of the site and along the northern wall.

This data supports a CSM that the LNAPL is the source of the elevated concentrations of PCBs in soil. There is a clear correlation in AOC 1 between elevated concentrations of PCBs in soil, the presence of LNAPL, and concentration of PCBs within the LNAPL. The maximum concentration and majority of PCB mass in soil is generally found at or near the water table which is consistent with the preferred preference of PCBs to bind strongly to soil and not leach significantly into the groundwater. However, the presence at significant concentrations in the LNAPL likely increases mobility of the PCBs in soil and could account for the spatial distribution seen in AOC 1. Additionally, the solubility of PCBs may be significantly enhanced in the presence of organic solvents. Acetone is one of the primary COCs at the site and data presented by WSP in the April 4, 2003 CMIP show that groundwater with acetone concentrations greater than New York's Ambient Groundwater Quality Standard of 0.05 mg/l [6NYCRR 703.5(f)] was present within the area defined herein as AOC 1. The presence of acetone could account for some of the spatial variability and distribution of PCBs in AOC 1 although to what degree or significance is uncertain.

WSP hypothesizes that surface releases of LNAPL entered the soil column through cracked concrete, floor joints, or floor drains and pooled/collected at the water table interface. The concentration of PCBs in the soil column above the water table at a given grid location is likely dependant on the amount of organic content in the historic fill and accounts for variations in PCB concentrations at similar depths in adjacent grids. Furthermore, localized minor fluctuations in the static water level may smear the LNAPL across a thin vertical zone.

Samples were collected to a depth of 18 feet bgs from grid location I-3 and PCBs above 10 mg/kg were found in saturated soils to a depth of 14 feet bgs. This sample location is adjacent to extraction well E-8 which was operating prior to the system being shut down on July 30, 2007. As shown on Figure 3, E-8 contained 0.6 foot of LNAPL and the LNAPL contained PCBs at 130 mg/kg. LNAPL was likely dragged down through the saturated zone as water was extracted from E-8 during the normal course of system operation.

Minimal historic information is available to formulate an accurate characterization of the source of elevated PCBs in AOCs 2 and 3. Concrete samples collected from grid locations in each AOC indicate the possibility of a prior surface release (0.36 mg/kg at V12 in AOC2; 0.94 mg/kg at B6 in AOC 3) although the concentrations are many orders of magnitude below the source area concrete sample from K-8 in AOC 1. As shown in Figure 1, AOC 2 is located in the vicinity of a former hazardous waste storage area and AOC 3 is located in the vicinity of a former drum storage area. WSP Engineering was not able to find any relevant information on the contents of tanks or drums formerly kept in these areas. The PCB impacts in AOC 2 and AOC 3 appear to be limited to the small grouping of grids shown on Figure 4 and are potentially due to small surface releases at point of use or storage locations. Figures 6 and 7 show the spatial distribution of PCBs in each area based on the data collected during the supplemental and additional delineation investigations.

Similar to AOCs 2 and 3, there appears to be minimal impact to shallow soils in AOC 4 on the western side of Building 17 (Figure 8) where a concrete sample collected from grid W-22 (1.2 mg/kg) indicates the possibility of a past surface release.

3.2 REGULATORY FRAMEWORK

To address the source and distribution of PCBs in the subsurface as described in the CSM for the site, the Toxic Substances Control Act (TSCA) PCB regulations at 40 CFR Part 761 should be complied with. It is recommended that a self implementing cleanup and disposal of bulk PCB remediation waste at the site as cited in 40 CFR 761.61(a) be performed. The use of the property, or specific portions thereof, will

be characterized as a low occupancy area. The self implementing cleanup standards for a low occupancy area are consistent with the NYSDEC Part 375-6.8(b) Restricted Use Soil Cleanup Objectives (SCOs) for an industrial use scenario (Total PCBs = 25 ppm).

The PCB cleanup levels that will be used under a low occupancy area of bulk remediation waste and porous surfaces will include the following as detailed in the *PCB Site Revitalization Guidance Under the TSCA* (EPA, 2005):

- **Less than or equal to 25 ppm (≤25 ppm)** in the soils, other residual waste or porous surfaces, and an institutional control (i.e., deed restriction). To verify the completion of cleanup and off-site disposal of bulk PCB remediation wastes and porous surfaces, use Subpart O at 40 CFR 761.
- **Greater than 25 ppm, but less than or equal to 50 ppm (>25 ppm to ≤50 ppm)** in the soils, other residual waste or porous surfaces provided the site is secured by a fence, marked with a sign that includes the PCB M_L mark and an institutional control (i.e., deed restriction) is implemented. To verify the completion of cleanup and off-site disposal of bulk PCB remediation wastes and porous surfaces use Subpart O at 40 CFR 761.
- **Greater than 25 ppm, but less than or equal to 100 ppm (>25 ppm to ≤100 ppm)** provided the site is covered with an approximate cap (i.e., a uniform placement of concrete, asphalt, or similar material of minimum thickness spread over the area where PCB remediation waste was removed or left in place in order to prevent or minimize human exposure, infiltration of water, and erosion) and an institutional control (i.e., deed restriction) is implemented. To verify the completion of cleanup and off-site disposal of bulk PCB remediation wastes and porous surfaces, use Subpart O at 40 CFR 761.

As discussed in the CSM, PCB-containing LNAPL has been detected at certain areas of the site. Once removed, this liquid PCB waste will be disposed of in an approved incinerator in accordance with 40 CFR 761.60(a) or by an alternative disposal technology in accordance with 40 CFR 761.60(e).

WSP anticipates utilizing the extensive current data set to verify cleanup with limited post-verification sampling where necessary. As discussed below, limited soil removal will be proposed at some areas of the site to pre-determined limits based on the site-wide PCB data.

The characterization of all or a portion of the property as low occupancy will require the current owners/tenants to restrict access to portions of the site. The TSCA PCB regulations do allow for parceling of the site into both high occupancy and low occupancy areas. Low occupancy is generally defined as any area where PCB remediation waste is present on site, and where annual occupancy for any individual not wearing dermal and respiratory protection is less than 840 hours (an average of 16.8 hours per week) for non-porous surface and less than 335 hours (an average of 6.7 hours per week) for bulk PCB remediation waste. Based on WSP's understanding of the regulations an average of 6.7 hours per week is the correct definition to apply to the site. Figure 9 shows the potential areas at the site where the low occupancy criteria may apply. The current owners/tenants would have to restrict individual access to these areas for less than 6.7 hours per week (i.e. occupancy must be transitory).

The remaining areas of the site could be defined as high occupancy areas (i.e. occupancy of more than 6.7 hours per week). The PCB cleanup levels for high occupancy areas under the self implementing cleanup standards are as follows:

- **Less than or equal to 1 ppm (≤1 ppm)** in the soils, other residual waste or porous surfaces, without further conditions.
- **Greater than 1 ppm but less than or equal to 10 ppm (>1 to ≤10 ppm)** if the area is covered with an appropriate cap (i.e., a uniform placement of concrete, asphalt, or similar material of minimum thickness spread over the area where PCB remediation waste was removed or left in place in order to

prevent or minimize human exposure, infiltration of water, and erosion) and an institutional control (i.e., deed restriction) is implemented.

As discussed in Section 3.4 and 3.5 the existing concrete cap which covers the vast majority of the site will likely meet the design standards in 40 CFR 264.310(a). Therefore, those areas outside the designated low occupancy areas as shown on Figure 9 would meet the high occupancy cleanup standards for leaving in place bulk PCB remediation waste ≤10 ppm. Refinements to the site plan designating both low occupancy and high occupancy areas will be provided in the cleanup plan.

3.3 LIMITED SOIL REMOVAL

Limited soil removal of PCB-affected soils will be proposed in a cleanup plan for certain areas of the site based on the site investigation data. Specifically, excavation of PCB affected soils above 100 mg/kg will be proposed in two areas of AOC 1:

- on the north side of Building 13 in the vicinity of extraction well E-8
- on the northeast corner of Building 14 in the vicinity of extraction well E-14 and injection well I-21

To facilitate removal of soil from these areas, surficial concrete will be removed and disposed/recycled off-site. The proximity of the proposed excavation areas to existing steel structures will likely necessitate shoring to protect the integrity of the structure. WSP Engineering anticipates proposing an excavation plan that only removes affected soils above the water table in each area. Surficial concrete sampling for PCBs in the areas of soil excavation indicated that some samples contained PCBs between 1 and 10 mg/kg. The sample collected from grid K8 contained PCBs at 2,000 mg/kg which will be managed as a TSCA remediation waste.

3.4 CAPPING

Upon completing the limited soil removal as discussed in Section 3.3, a cap will be constructed over the area where the PCB remediation waste was removed in order to prevent or minimize human exposure, infiltration of water, and erosion. A cap will also be maintained or installed over areas of the site where PCB remediation waste was left in-place (>25 ppm to ≤100 ppm). The cap will be designed and constructed in accordance with 40 CFR 264.310(a) and ensure it complies with the permeability, sieve, liquid limit, and plasticity index parameters in 40 CFR 761.75(b)(1)(ii) through (b)(1)(v). The compacted soil shall have a minimum thickness of 10 inches and the concrete or asphalt cap shall have a minimum thickness of 6 inches. Details regarding the cap construction will be provided in a cleanup plan for the site.

Collectively, Figures 5 through 8 show areas of the site where concentrations of PCB in soil exceed 25 ppm. Excluding the areas of limited excavation (i.e. soils exceeding 100 ppm) the green areas in the plan view on each figure serve as an approximate indication of where capping may be necessary to comply with the self implementing cleanup standards. WSP Engineering anticipates proposing one or more of the following design/controls in areas requiring a cap:

- incorporation of existing concrete cap
- repair/patching of existing concrete cap
- removal and replacement of existing concrete cap
- implementation of a cap maintenance plan

3.5 INSTITUTIONAL AND ENGINEERING CONTROLS

As required in 40 CFR 761.61(a)(8), a deed restriction will be implemented at the site. Deed restrictions are required for any PCB cleanup in an area that is designated as a low occupancy area.

In addition to a deed restriction, the self implementing cleanup guidance requires soil left in place with PCB concentrations greater than 25 ppm but less than or equal to 50 ppm be secured by a fence with a sign that includes the PCB M_L mark. However, WSP anticipates that incorporation of the existing concrete cap which covers a majority of the site into the cleanup plan will meet the more conservative standards required for soils left in-place between 25 ppm and 100 ppm. Under these circumstances, engineering controls (i.e. fencing and signage) would not be included in a proposed cleanup plan for the site.

3.6 EXISTING TREATMENT SYSTEM OPERATION

The data shows that the LNAPL in the subsurface is the primary source of PCBs found in soils at the site. Steam injection enhances mass removal of contaminants from the subsurface via several mechanisms, including the reduction of viscosity and adsorptive forces, the increase in vapor pressure, the increase in the rates of volatilization, and the increase in the rates of diffusion in both the aqueous and vapor phases. The intrinsic characteristics of the primary COCs identified at the site (benzene, toluene, xylenes, acetone, phenol, and naphthalene) allowed the DPE with steam injection process to remove aqueous and vapor phase mass from the subsurface more efficiently than DPE alone. DPE with steam injection is also significantly more effective at removing LNAPL from the subsurface than DPE alone. During the pilot test conducted by WSP in August and September 2002, approximately 0.25 gallon of oil was removed over 1.82 days during the DPE test, while at least 36 gallons of oil were removed over 5.1 days during the DPE with steam injection test and DPE post-steam injection test. Operation and Maintenance records indicate that approximately 1,650-gallons of LNAPL have been recovered during normal operations which show that the system in its current configuration is effective at removing LNAPL. Conversely, the greater removal efficiency of the LNAPL also equates to greater mobility of the LNAPL within the treatment zone.

Extensive literature on the environmental fate of PCBs in soil indicates that vapor loss from soil surfaces appears to be an important fate mechanism with the rate of volatilization decreasing with increasing chlorination of the congener. Although the steam injection process may enhance the rate of volatilization and recovery of PCBs in the vapor stream, the system in its current configuration will not significantly reduce the concentration of PCBs in soil.

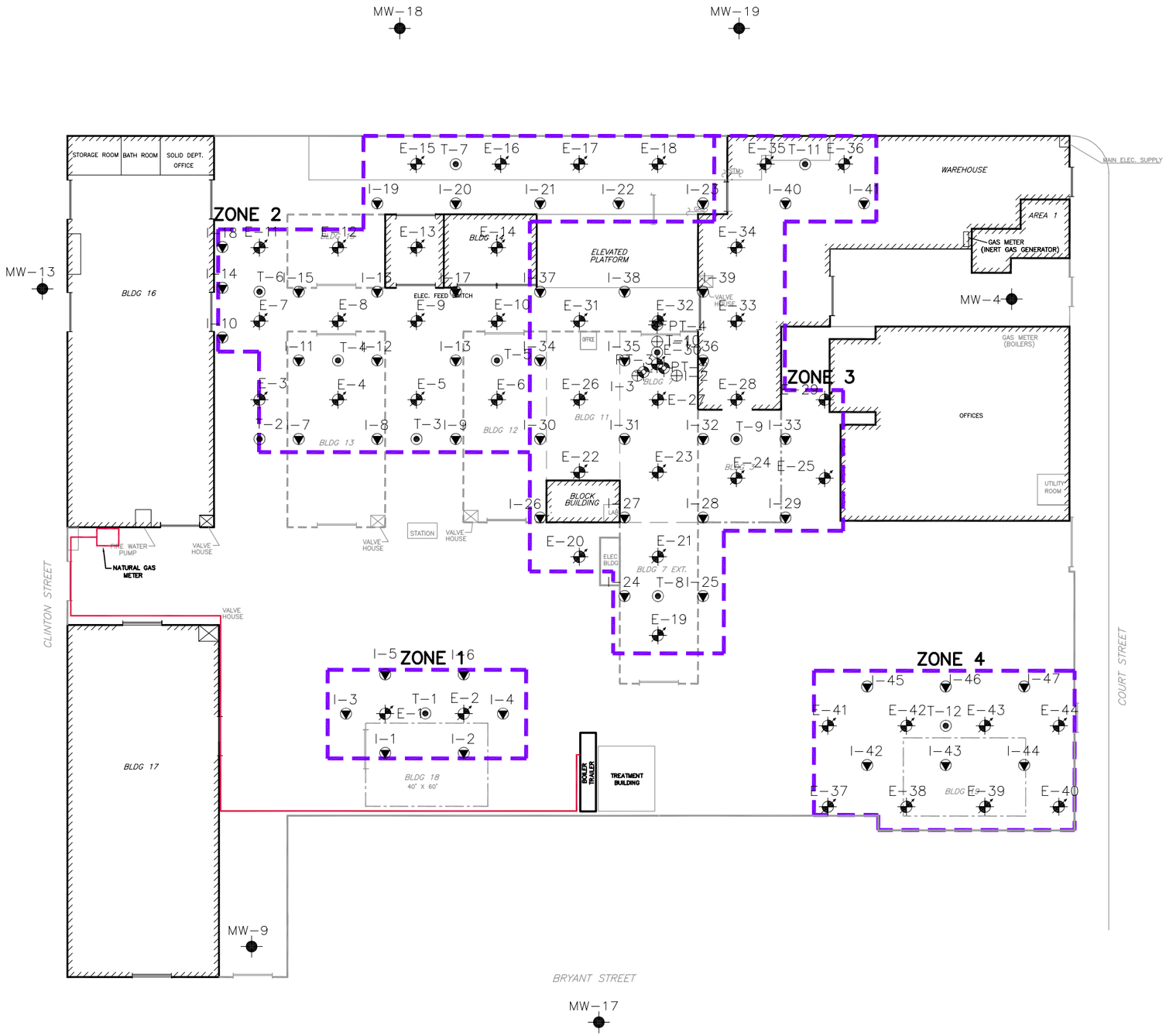
In summary, the benefits of operating the system in the current configuration include:

- enhanced removal of LNAPL containing PCB
- minor increase in volatilization of PCBs from soil and recovery through vapor extraction
- limited modifications to existing system to dispose of PCB waste

There are significant implementation considerations regarding the timing of operating the treatment system and any proposed excavation to address removal of PCBs greater than 100 mg/kg. The data presented in Sections 2.4.2 and Section 3.1 show that the system may be dragging PCB affected LNAPL through the soil column at active extraction wells and creating impacts to 18-feet bgs where previously the depth of impacted soil extended only to the shallow water table. WSP was just starting to operate the system in the northern portion of Zone 2 when the system was shut-off in July 2007. The northern portion of Zone 2 is roughly co-located with PCB AOC 1 where a majority of the PCB mass is present. Operating the system to address the original COCs in Zone 2 prior to conducting a limited soil removal could alter the distribution of PCBs shown in Figure 5 and expand the depth of impact within the area. Conversely, conducting a limited soil removal prior to operating the system would entail extensive

removal and replacement of water discharge, vapor extraction, and steam injection piping. Additionally, extraction and injection wells within the proposed excavation areas would have to be abandoned and re-installed in order not to limit the extent of excavation and leave soil in place with PCB concentrations greater than 100 mg/kg.

Figures



LEGEND

- EXISTING BUILDING
- PARTIALLY DEMOLISHED BUILDING (STEEL FRAME AND ROOF PRESENT)
- FORMER BUILDING LOCATION (FOUNDATION PRESENT)
- MONITORING WELL LOCATION
- PILOT-SCALE PIEZOMETER TEMPERATURE WE
- PILOT-SCALE INJECTION WELL
- FULL-SCALE EXTRACTION WELL
- FULL-SCALE INJECTION WELL
- THERMOCOUPLE
- NATURAL GAS SUPPLY LINE (ELEVATED)
- TREATMENT ZONE

NOTE: MONITORING WELLS MW-18 AND MW-19 LOCATIONS ARE APPROXIMATE.

NOT TO SCALE

Drawn By: EGC
Checked: TW
Approved:
DWG Name: 13143517

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Figure 1

SITE LAYOUT

WSP ENGINEERING OF NEW YORK, P.C.

DATE	6/24/98	6/24/98
DEPTH (FT BGS)	0–2	2–4
TOTAL PCBs (mg/kg)	3.7	53

DATE	6/24/98	6/24/98
DEPTH (FT BGS)	0–2	2–4
TOTAL PCBs (mg/kg)	3.7	1.2

DATE	6/24/98	6/24/98
DEPTH (FT BGS)	0–2	2–4
TOTAL PCBs (mg/kg)	2.8	0.39

DATE	6/24/98
DEPTH (FT BGS)	0–2
TOTAL PCBs (mg/kg)	0.057

SB–13, SB–14, SB–18, SB–19, SB–42 (ND)

ZONE 1, ZONE 2, ZONE 3, ZONE 4

STORAGE ROOM | BATH ROOM | SOLID DEPT. OFFICE | BLDG 16 | BELT FLAKER | DRYER | ELEVATOR | FIRE WATER PUMP | VALVE HOUSE | BLDG 15 | DUST COLLECTION SYSTEM | BOILER ROOM (NEBRASKA) | BLDG 14 | COMPRESSORS | BOILER ROOM (B&W) & (CLEAVER BROOKS) | ELEC. FEED SWITCH | TANK FARM NO.2 | ELEVATED PLATFORM | BLDG 13 | BLDG 12 | BLDG 11 | BLDG 3 | BLOCK BUILDING | LAB | ELEC BLDG | LOADING STATION | DRUM STORAGE AREA | AREA 20 COOLING AREA | AREA 23 | AREA 22 | AREA 21 | AREA 24 TANK FARM NO. 4 | TANK FARM NO.5 | BLDG 17 | BLDG 18 40' X 60' | HAZARDOUS WASTE AREA (SOUTH CONTAINER STORAGE) | BLDG 19 | BLDG 20 | BLDG 40 | ELEVATOR | DUST COLLECTOR | WAREHOUSE | AREA 1 | GAS METER (INERT GAS GENERATOR) | MAIN ELEC. SUPPLY | GAS METER (BOILERS) | OFFICES | UTILITY ROOM | CLINTON STREET | COURT STREET | BRYANT STREET

LEGEND

- EXISTING BUILDING
- PARTIALLY DEMOLISHED BUILDING (STEEL FRAME AND ROOF PRESENT)
- FORMER BUILDING LOCATION (FOUNDATION PRESENT)
- ENVIRO–SCIENCES HISTORICAL PCB SAMPLE LOCATION
- TREATMENT ZONE
- FULL–SCALE EXTRACTION WELL
- FULL–SCALE INJECTION WELL

N

0 50’

SCALE IN FEET

REFERENCE: BASEMAP FROM REMEDIAL ACTION WORKPLAN, REVISED MAY 2001, PREPARED FOR WITCO CORPORATION BY ENVIRO–SCIENCES, INC.

Drawn By: EGC
Checked: TW
Approved:
DWG Name: 13143516

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Figure 2

HISTORICAL SOIL PCB DATA

WSP ENGINEERING OF NEW YORK, P.C.

GENERAL NOTES:

1. WELL AND THERMOCOUPLE LOCATIONS ARE APPROXIMATE.
2. WSP ENGINEERING WAS UNABLE TO COLLECT A SUFFICIENT VOLUME OF LNAPL FOR PCB ANALYSIS.
3. MONITORING WELL WAS GAUGED AS PART OF THE ANNUAL GROUNDWATER SAMPLING CONDUCTED IN JULY 2007. NO MEASURABLE OR RESIDUAL LNAPL WAS DETECTED AS PART OF THAT SAMPLING, OR SAMPLING CONDUCTED IN PREVIOUS ANNUAL SAMPLING EVENTS.

LEGEND

- PILOT-SCALE PIEZOMETER TEMPERATURE WELL
- PILOT-SCALE INJECTION WELL
- FULL-SCALE EXTRACTION WELL (NO MEASUREABLE LNAPL)
- FULL-SCALE INJECTION WELL (NO MEASUREABLE LNAPL)
- FULL-SCALE EXTRACTION WELL (MEASUREABLE LNAPL)
- THERMOCOUPLE
- MONITORING WELL (SEE NOTE 3)
- FULL-SCALE EXTRACTION WELL (INACCESSIBLE)
- FULL-SCALE INJECTION WELL (INACCESSIBLE)
- FULL-SCALE EXTRACTION WELL (RESIDUAL LNAPL)
- FULL-SCALE INJECTION WELL (RESIDUAL LNAPL)
- FULL-SCALE EXTRACTION WELL (NOT INCLUDED IN LNAPL INVESTIGATION)
- FULL-SCALE INJECTION WELL (NOT INCLUDED IN LNAPL INVESTIGATION)
- NATURAL GAS SUPPLY LINE (ELEVATED)
- PRE-EXISTING TRENCH
- PRE-EXISTING SEWER LINE
- PRE-EXISTING WATER LINE
- PRE-EXISTING BUILDING
- PARTIALLY DEMOLISHED BUILDING (STEEL FRAME AND ROOF PRESENT)
- FORMER BUILDING LOCATION (FOUNDATION PRESENT)

LNAPL THICKNESS 0.2' SEE NOTE 2
LNAPL THICKNESS 0.08' SEE NOTE 2
LNAPL THICKNESS 0.25' TOTAL PCBs 1.6 mg/kg
LNAPL THICKNESS 0.39' TOTAL PCBs 200 mg/kg
LNAPL THICKNESS 0.86' TOTAL PCBs 450 mg/kg
LNAPL THICKNESS 0.52' TOTAL PCBs 120 mg/kg
LNAPL THICKNESS 0.58' TOTAL PCBs 130 mg/kg
LNAPL THICKNESS 0.6' TOTAL PCBs 130 mg/kg
LNAPL THICKNESS 0.27' TOTAL PCBs 13 mg/kg
LNAPL THICKNESS 1.85' TOTAL PCBs 30 mg/kg

MW-18 MW-19 MW-13 MW-4 MW-16 MW-9 MW-17

STORAGE ROOM BATH ROOM SOLID DEPT. OFFICE BLDG 16 BLDG 15 BLDG 14 BLDG 13 BLDG 12 BLDG 11 BLDG 7 BLDG 3 BLDG 7 EXT. BLDG 17 BLDG 18 40' X 60' BLDG 19 ELEVATED PLATFORM WAREHOUSE AREA 1 OFFICES OFFICE BLOCK BUILDING LAB STATION ELEC. FEED SWITCH VALVE HOUSE STIM VALVE HOUSE GAS METER (INERT GAS GENERATOR) GAS METER (BOILERS) MAIN ELEC. SUPPLY UTILITY ROOM ELEC BLDG FIRE WATER PUMP NATURAL GAS METER BOILER TRAILER TREATMENT BUILDING DISCHARGE TO SEWER CLINTON STREET COURT STREET BRYANT STREET

REFERENCE: BASEMAP FROM REMEDIAL ACTION WORKPLAN, REVISED MAY 2001, PREPARED FOR WITCO CORPORATION BY ENVIRO-SCIENCES, INC.

0 25 50 75
SCALE IN FEET

REVISIONS

REV	DESCRIPTION	
1	Revised	Appr.
2	Revised	Appr.
3	Revised	Appr.

SEAL

DATE

DRAWN BY EGC
CHECKED TW
APPROVED TMM

PCB DISTRIBUTION IN LNAPL

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PREPARED FOR
CHEMTURA CORPORATION

WSP Engineering of New York, P.C.
240 Rectail, Suite 11A
Orchard Park, New York 14127
(716) 675-6067

FIGURE 3

Drawing Number
13143518

GENERAL NOTES:

1. WELL AND THERMOCOUPLE LOCATIONS ARE APPROXIMATE.
2. PCB SAMPLE LOCATIONS ARE APPROXIMATE.

LEGEND

- CONCRETE SAMPLE LOCATION
- PILOT–SCALE PIEZOMETER TEMPERATURE WELL
- PILOT–SCALE INJECTION WELL
- FULL–SCALE EXTRACTION WELL
- FULL–SCALE INJECTION WELL
- THERMOCOUPLE
- NATURAL GAS SUPPLY LINE (ELEVATED)
- PRE–EXISTING TRENCH
- PRE–EXISTING SEWER LINE
- PRE–EXISTING WATER LINE
- PRE–EXISTING BUILDING
- PARTIALLY DEMOLISHED BUILDING (STEEL FRAME AND ROOF PRESENT)
- FORMER BUILDING LOCATION (FOUNDATION PRESENT)
- TOTAL PCB CONCENTRATION OF AT LEAST ONE SOIL SAMPLE COLLECTED WITHIN GRID >10 mg/kg
- AREA OF CONCERN

REFERENCE: BASEMAP FROM REMEDIAL ACTION WORKPLAN, REVISED MAY 2001, PREPARED FOR WITCO CORPORATION BY ENVIRO–SCIENCES, INC.

SCALE IN FEET: 0, 25, 50, 75

REVISIONS

REV	DESCRIPTION	
1	Revised	Date
2	Revised	Date
3	Revised	Date

SEAL

DATE

DRAWN BY	EGC
CHECKED	TW
APPROVED	TMM

DISTRIBUTION OF PCBs >10 mg/kg AND PCB AREAS OF CONCERN

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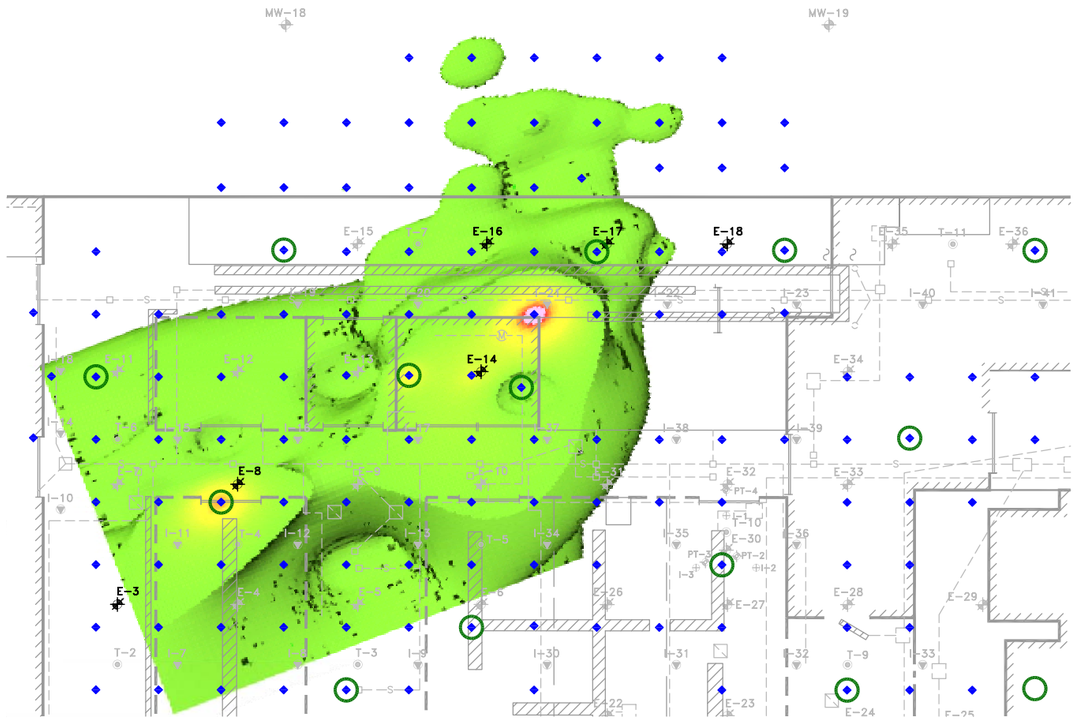
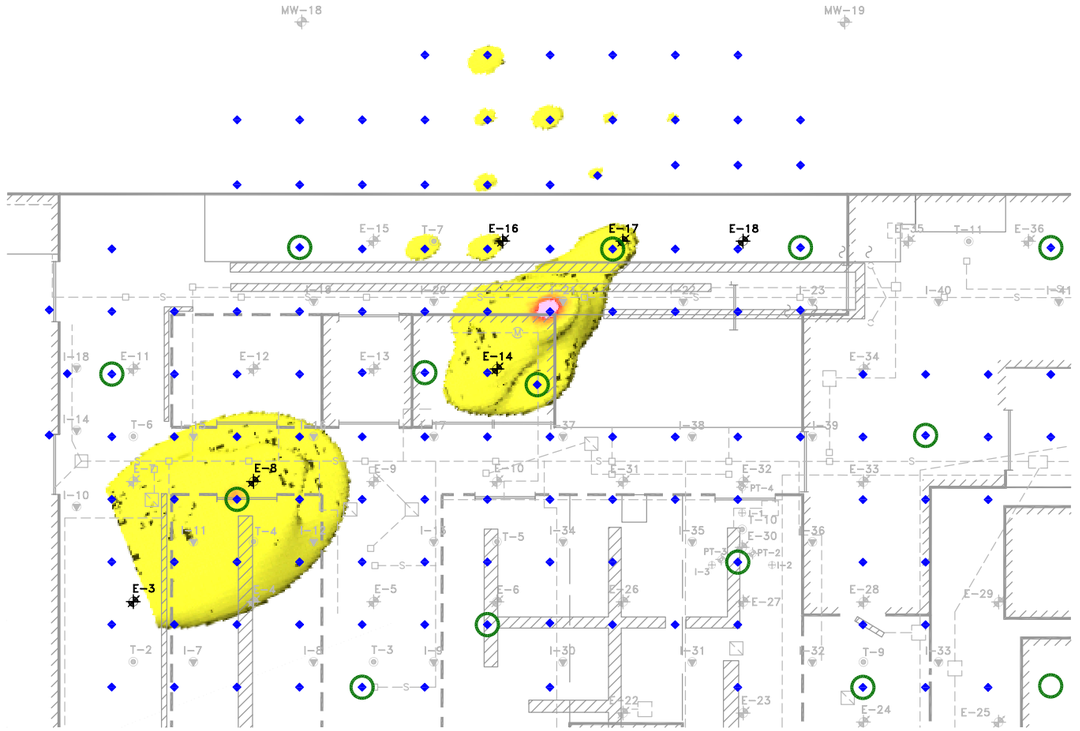
FIGURE 4

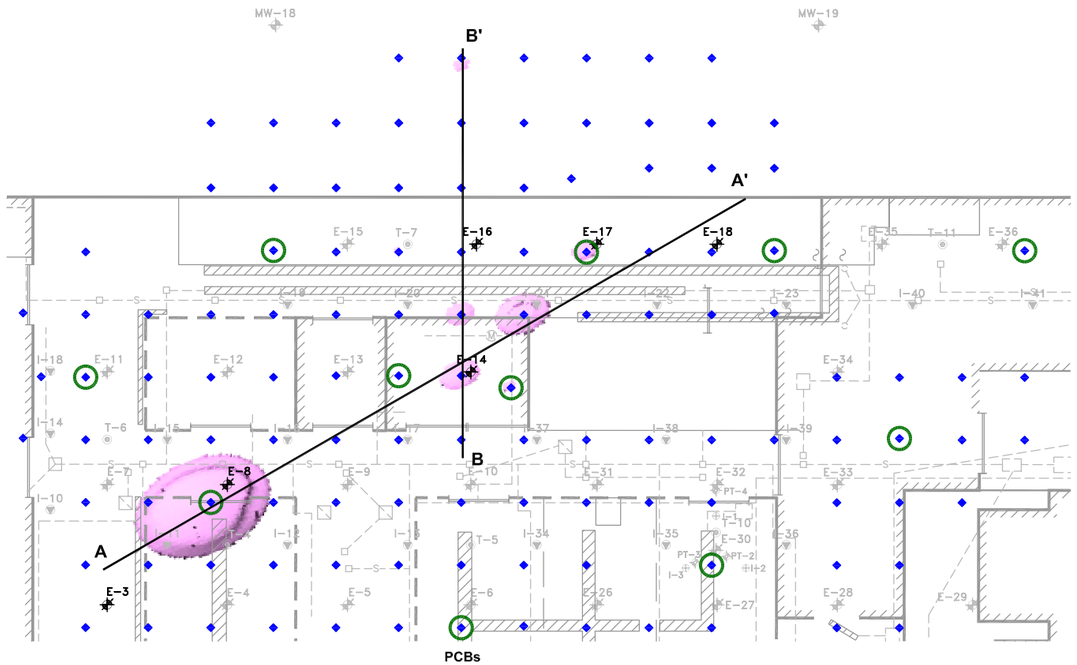
Drawing Number
13143519



PCBs
(AOC 1 - Above 25 mg/kg)



PCBs
(AOC 1 - Above 50 mg/kg)



PCBs
(AOC 1 - Above 100 mg/kg)

A

E-03
(OFFSET 11.84')

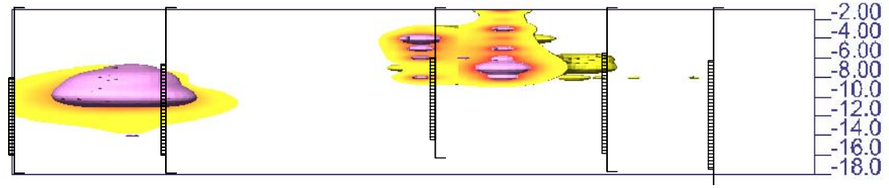
E-08
(OFFSET 3.05')

A'

E-14
(OFFSET 5.73')

E-17
(OFFSET 10.42')

E-18
(OFFSET 9.71')

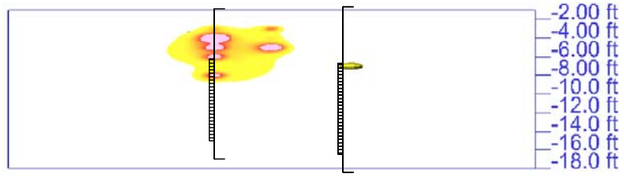


B

E-14
(OFFSET 2.22')

E-16
(OFFSET 4.07')

B'



FEET BELOW GROUND SURFACE
3:1 VERTICAL EXAGGERATION

KEY
(MEASURED IN mg/kg)

- > 100
- 100
- 50
- 25
- 1

LEGEND

- APPROXIMATE OCTOBER 2007, SEPTEMBER 2008, OR MAY 2009 PCB SOIL SAMPLE LOCATION
- SURFICAL MATERIAL SAMPLING LOCATION

GENERAL NOTES:

1. WELL AND THERMOCOUPLE LOCATIONS ARE APPROXIMATE.
2. PCB SAMPLE LOCATIONS ARE APPROXIMATE.
3. ALL ELEVATIONS ARE BASED ON AN APPROXIMATELY LEVEL GROUND SOURFACE AROUND THE SAMPLING AREA. ELEVATIONS ARE SHOWN AS FEET BELOW GROUND SURFACE.

N

0 50' 100'
SCALE IN FEET

Drawn By: JME
Checked: TW
Approved:
DWG Name: 13143515

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Figure 5

PCB DISRTIBUTION – AOC 1

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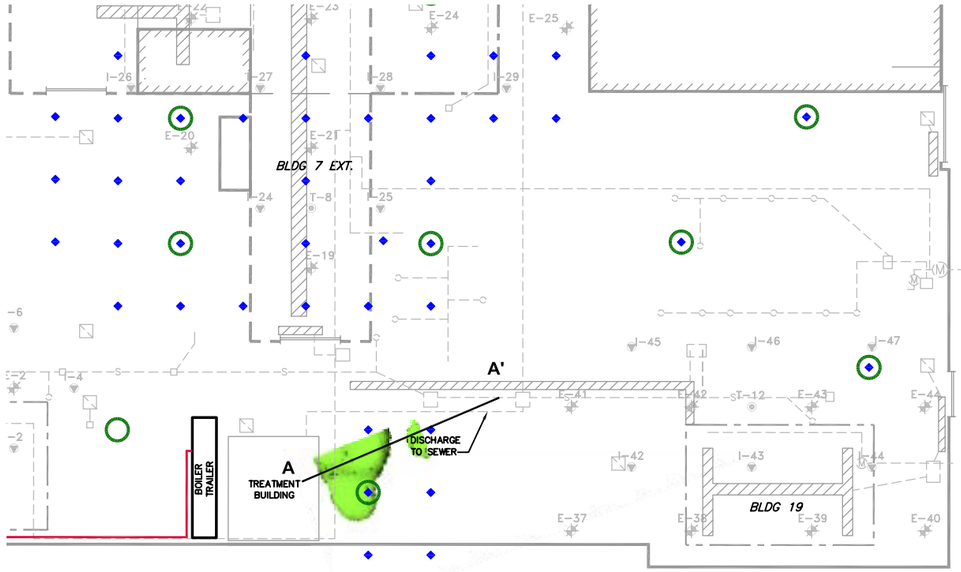
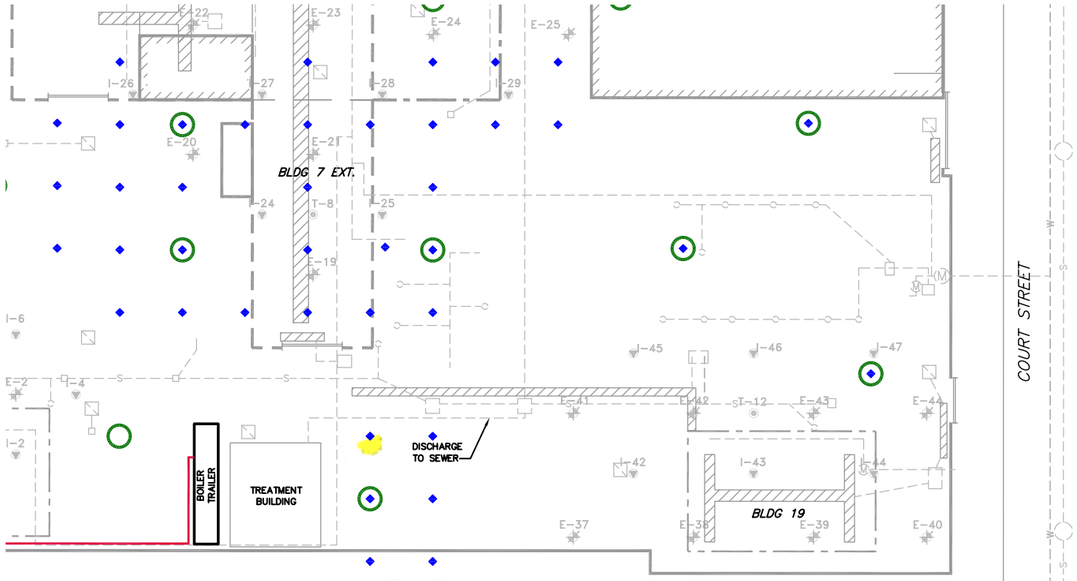
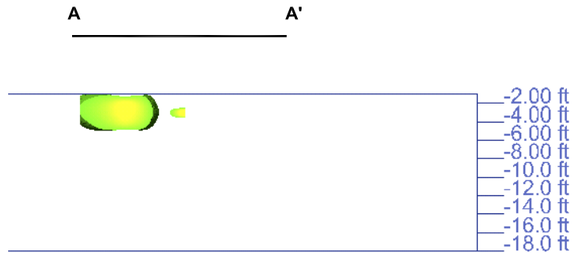


PCBs
(AOC 2 - Above 25 mg/kg)



PCBs
(AOC 2 - Above 50 mg/kg)



FEET BELOW GROUND SURFACE

3:1 VERTICAL EXAGGERATION

GENERAL NOTES:

1. WELL AND THERMOCOUPLE LOCATIONS ARE APPROXIMATE.
2. PCB SAMPLE LOCATIONS ARE APPROXIMATE.
3. ALL ELEVATIONS ARE BASED ON AN APPROXIMATELY LEVEL GROUND SOURFACE AROUND THE SAMPLING AREA. ELEVATIONS ARE SHOWN AS FEET BELOW GROUND SURFACE.

KEY
(MEASURED IN mg/kg)

- > 100
- 100
- 50
- 25
- 1

LEGEND

- APPROXIMATE OCTOBER 2007, SEPTEMBER 2008, OR MAY 2009 PCB SOIL SAMPLE LOCATION
- SURFICAL MATERIAL SAMPLING LOCATION

N

0 50' 100'
SCALE IN FEET

Drawn By: JME
Checked: TW
Approved:
DWG Name: 13143515

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Figure 6

PCB DISRTIBUTION – AOC 2

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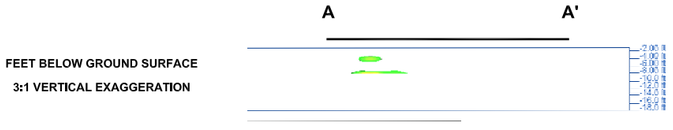
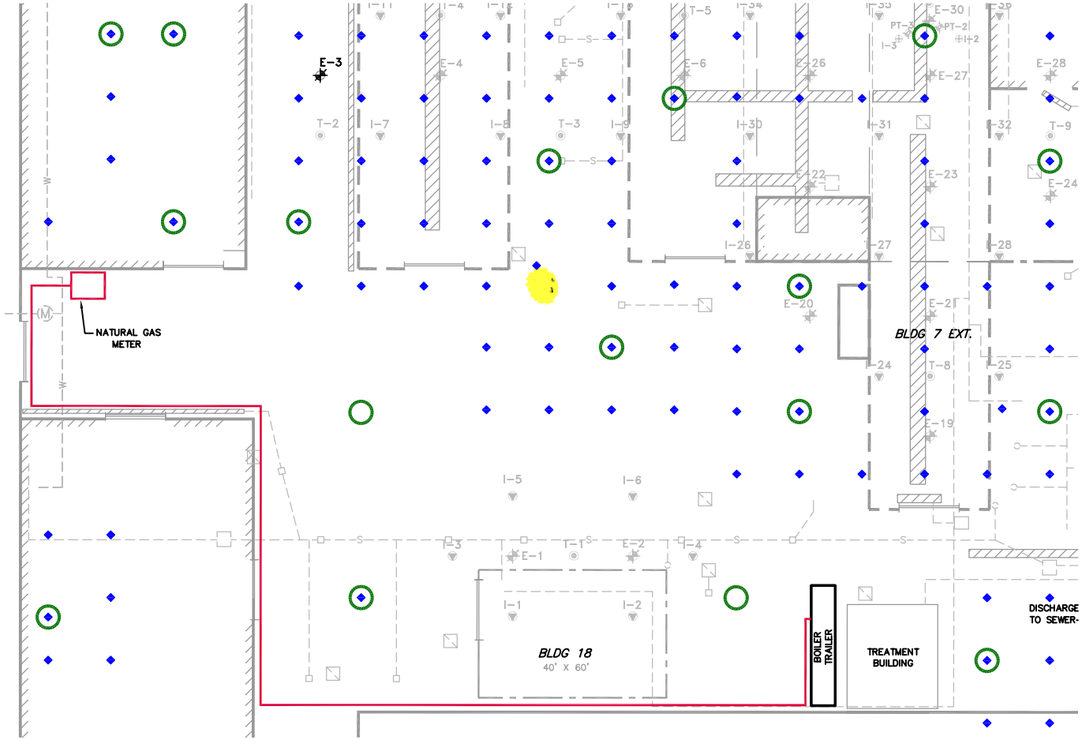
Orchard Park, New York 14127 (716) 675-6067

PCBs
(AOC 3 - Above 25 mg/kg)





PCBs
(AOC 3 - Above 50 mg/kg)

GENERAL NOTES:

1. WELL AND THERMOCOUPLE LOCATIONS ARE APPROXIMATE.
2. PCB SAMPLE LOCATIONS ARE APPROXIMATE.
3. ALL ELEVATIONS ARE BASED ON AN APPROXIMATELY LEVEL GROUND SOURFACE AROUND THE SAMPLING AREA. ELEVATIONS ARE SHOWN AS FEET BELOW GROUND SURFACE.

KEY
(MEASURED IN mg/kg)

- > 100
- 100
- 50
- 25
- 1

LEGEND

- APPROXIMATE OCTOBER 2007, SEPTEMBER 2008, OR MAY 2009 PCB SOIL SAMPLE LOCATION
- SURFICAL MATERIAL SAMPLING LOCATION

N

0 50' 100'
SCALE IN FEET

Drawn By: JME
Checked: TW
Approved:
DWG Name: 13143515

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Figure 7

PCB DISRTIBUTION – AOC 3

WSP
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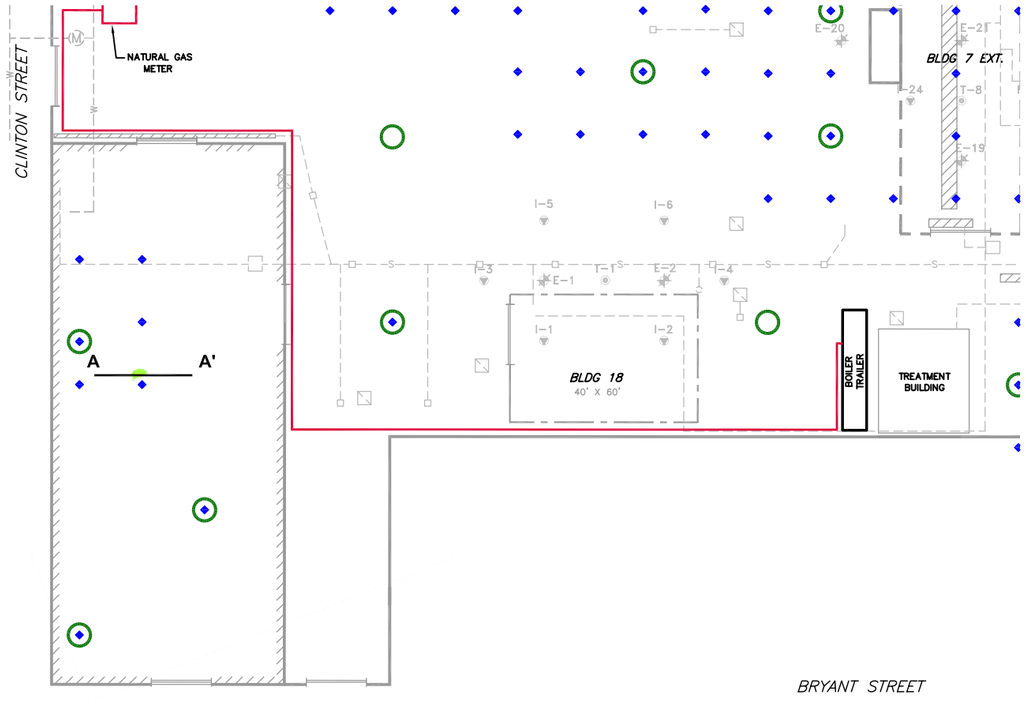
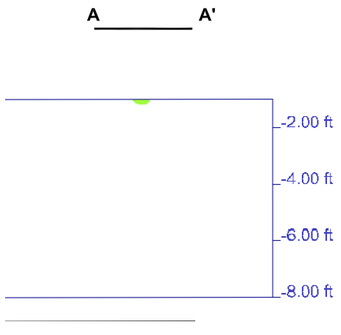
Orchard Park, New York 14127 (716) 675-6067



PCBs
(AOC 4 - Above 25 mg/kg)



FEET BELOW GROUND SURFACE
3:1 VERTICAL EXAGGERATION

GENERAL NOTES:

1. WELL AND THERMOCOUPLE LOCATIONS ARE APPROXIMATE.
2. PCB SAMPLE LOCATIONS ARE APPROXIMATE.
3. ALL ELEVATIONS ARE BASED ON AN APPROXIMATELY LEVEL GROUND SOURFACE AROUND THE SAMPLING AREA. ELEVATIONS ARE SHOWN AS FEET BELOW GROUND SURFACE.

KEY
(MEASURED IN mg/kg)

- > 100
- 100
- 50
- 25
- 1

LEGEND

- APPROXIMATE OCTOBER 2007, SEPTEMBER 2008, OR MAY 2009 PCB SOIL SAMPLE LOCATION
- SURFICAL MATERIAL SAMPLING LOCATION

N

0 50' 100'
SCALE IN FEET

Drawn By: JME
Checked: TW
Approved:
DWG Name: 13143515

CHEMTURA CORPORATION
688-700 COURT STREET
BROOKLYN, NEW YORK
PREPARED FOR
CHEMTURA

Figure 8

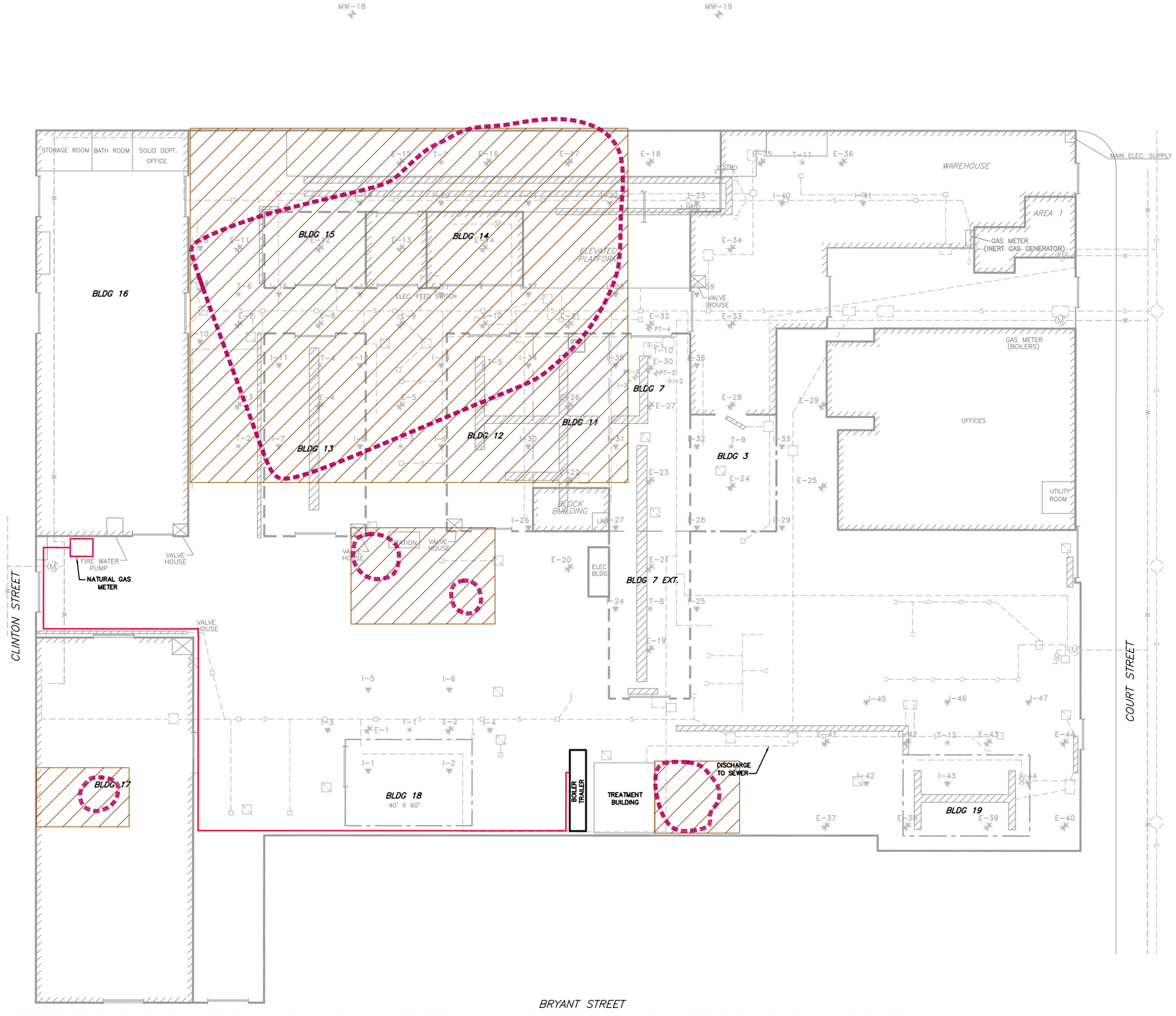
PCB DISRTIBUTION – AOC 4

WSP
Engineering of
New York, P.C.
240 Redtail, Suite 11A
Orchard Park, New York 14127 (716) 675-6067

GENERAL NOTES:

1. WELL AND THERMOCOUPLE LOCATIONS ARE APPROXIMATE.

2. PCB SAMPLE LOCATIONS ARE APPROXIMATE.



LEGEND

- PILOT-SCALE PIEZOMETER TEMPERATURE WELL
- PILOT-SCALE INJECTION WELL
- FULL-SCALE EXTRACTION WELL
- FULL-SCALE INJECTION WELL
- THERMOCOUPLE
- NATURAL GAS SUPPLY LINE (ELEVATED)
- PRE-EXISTING TRENCH
- PRE-EXISTING SEWER LINE
- PRE-EXISTING WATER LINE
- PRE-EXISTING BUILDING
- PARTIALLY DEMOLISHED BUILDING (STEEL FRAME AND ROOF PRESENT)
- FORMER BUILDING LOCATION (FOUNDATION PRESENT)
- POTENTIAL LOW OCCUPANCY DESIGNATED AREA
- APPROXIMATE AREA WITH PCB > 25 mg/kg

0 50' 100'
SCALE IN FEET

REFERENCE: BASEMAP FROM REMEDIAL ACTION WORKPLAN, REVISED MAY 2001, PREPARED FOR WITCO CORPORATION BY ENVIRO-SCIENCES, INC.

Drawn By: JME
Checked: TW
Approved:
DWG Name: 13143519

CHEMTURA CORPORATION
688-700 COURT STREET
BROOKLYN, NEW YORK
PREPARED FOR
CHEMTURA

Figure 9

POTENTIAL LOW OCCUPANCY DESIGNATED AREAS

WSP Engineering of New York, P.C.
240 Redtail, Suite 11A
Orchard Park, New York 14127 (716) 675-6067

Tables

Table 1

Historical PCB Sampling Results
Chemtura Corporation
Brooklyn, New York

	Soil (a)						
Sample ID:	**SB-13**	**SB-13**	**SB-14**	**SB-14**	**SB-18**	**SB-18**	**SB-19**
Sampling Date:	**6/24/1998**	**6/24/1998**	**6/24/1998**	**6/24/1998**	**6/24/1998**	**6/24/1998**	**6/24/1998**
Depth (ft bgs):	**0 - 2**	**2 - 4**	**0 - 2**	**2 - 4**	**0 - 2**	**2 - 4**	**0 - 2**
PCBs (µg/kg)							
Aroclor 1016	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	3.7	53	2.8	0.39	3.7	1.2	0.057
Aroclor 1254	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND	ND
Total (mg/kg)	**0.0037**	**0.053**	**0.0028**	**0.00039**	**0.0037**	**0.0012**	**0.000057**

	LNAPL (b)	
Sample ID:	**E-19**	**E-16**
Sampling Date:	**7/31/2007**	**7/31/2007**
PCBs (mg/kg)		
Aroclor 1016	ND	ND
Aroclor 1221	ND	ND
Aroclor 1232	ND	ND
Aroclor 1242	ND	ND
Aroclor 1248	27	91
Aroclor 1254	ND	ND
Aroclor 1260	8.8	3.7
Total (mg/kg)	**35.8**	**94.7**

	Groundwater				
Sample ID:	**E-5**	**E-5**	**E-2**	**E-42**	**EFFLUENT**
Sampling Date:	**5/22/2007**	**7/31/2007**	**7/31/2007**	**7/31/2007**	**9/28/2006**
Notes:	**(c)**	**(c)**	**(c)**	**(c)**	**(d)**
PCBs (µg/L)					
Aroclor 1016	7.3	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND	38
Aroclor 1248	ND	14	ND	ND	ND
Aroclor 1254	ND	3.4	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND
Total (µg/L)	**7.3**	**17.4**	**ND**	**ND**	**38**

(a) Samples were not collected by WSP Engineering. Samples were collected by Enviro-Sciences, Inc. as part of a Phase II investigation.
(b) Sample of light non-aqueous phase liquid (LNAPL) accumulated in extraction well.
(c) Samples were collected as part of a quarterly compliance monitoring event related to operation of the DPE with steam injection remediation system.
(d) Sample was collected as part of quarterly discharge compliance monitoring. Sample collected from effluent of the liquid phase activated carbon.

Table 2
Initial Investigation (2007) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	A-8	A-9	A-10	A-11	A-12	A-13	B-8	B-9
Sampling Date:	10/29/2007	10/29/2007	10/29/2007	10/23/2007	10/26/2007	10/26/2007	10/30/2007	10/30/2007
Depth (feet bgs):	6.5-7	6.5-7	7-7.5	8.5-9	8.5-9	6.5-7	5-5.5	8-8.5
PCBs (µg/Kg)								
Aroclor 1016	100 U	99 U	20 U	18 U	110 U	110 U	110 U	150 U
Aroclor 1221	100 U	99 U	20 U	18 U	110 U	110 U	110 U	150 U
Aroclor 1232	100 U	99 U	20 U	18 U	110 U	110 U	110 U	150 U
Aroclor 1242	100 U	99 U	20 U	18 U	110 U	110 U	110 U	150 U
Aroclor 1248	2700	4000	20 U	1200	180	110 U	2100	1300
Aroclor 1254	100 U	99 U	20 U	18 U	110 U	110 U	110 U	150 U
Aroclor 1260	100 U	99 U	20 U	18 U	110 U	110 U	110 U	150 U
Total (mg/kg)	**2.7**	**4**	**<0.02**	**1.2**	**0.18**	**<0.11**	**2.1**	**1.3**

Grid ID:	B-11	B-12	B-13	C-8	C-9	C-11	C-13	D-1
Sampling Date:	10/23/2007	10/30/2007	10/26/2007	10/30/2007	10/30/2007	10/23/2007	10/26/2007	10/29/2007
Depth (feet bgs):	5.5-6	4.5-5	6.5-7	7-7.5	5-5.5	7.5-8	8-8.5	7-7.5
PCBs (µg/Kg)								
Aroclor 1016	28 U	110 U	140 U	120 U	110 U	20 U	160 U	22 U
Aroclor 1221	28 U	110 U	140 U	120 U	110 U	20 U	160 U	22 U
Aroclor 1232	28 U	110 U	140 U	120 U	110 U	20 U	160 U	22 U
Aroclor 1242	28 U	110 U	140 U	120 U	110 U	20 U	160 U	22 U
Aroclor 1248	1200	290	1800	2100	740	20 U	2200	22 U
Aroclor 1254	28 U	110 U	140 U	120 U	110 U	60	160 U	22 U
Aroclor 1260	28 U	110 U	140 U	120 U	110 U	62	160 U	22 U
Total (mg/kg)	**1.2**	**0.29**	**1.8**	**2.1**	**0.74**	**0.122**	**2.2**	**<0.022**

Grid ID:	D-2	D-3	D-4	D-5	D-6	D-8	D-9	D-10
Sampling Date:	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/29/2007	10/30/2007	10/30/2007
Depth (feet bgs):	7-7.5	6.5-7	7-7.5	6.5-7	7-7.5	7-7.5	5-5.5	4.5-5
PCBs (µg/Kg)								
Aroclor 1016	22 U	110 U	25 U	120 U	260 U	22 U	120 U	110 U
Aroclor 1221	22 U	110 U	25 U	120 U	260 U	22 U	120 U	110 U
Aroclor 1232	22 U	110 U	25 U	120 U	260 U	22 U	120 U	110 U
Aroclor 1242	22 U	110 U	25 U	120 U	260 U	22 U	120 U	110 U
Aroclor 1248	22 U	55 J	25 U	19000	14000	540	9100	210
Aroclor 1254	22 U	110 U	25 U	120 U	260 U	22 U	120 U	110 U
Aroclor 1260	22 U	110 U	25 U	120 U	260 U	22 U	120 U	110 U
Total (mg/kg)	**<0.022**	**0.055 J**	**<0.025**	**19**	**14**	**0.54**	**9.1**	**0.21**

Grid ID:	D-11	D-12	D-13	D-14	D-15	E-1	E-2	E-3
Sampling Date:	10/23/2007	10/30/2007	10/26/2007	10/26/2007	10/26/2007	10/31/2007	10/31/2007	10/30/2007
Depth (feet bgs):	7.5-8	7-7.5	8-8.5	7.5-8	8-8.5	5-5.5	5-5.5	5-5.5
PCBs (µg/Kg)								
Aroclor 1016	20 U	100 U	150 U	150 U	120 U	110 U	100 U	110 U
Aroclor 1221	20 U	100 U	150 U	150 U	120 U	110 U	100 U	110 U
Aroclor 1232	20 U	100 U	150 U	150 U	120 U	110 U	100 U	110 U
Aroclor 1242	20 U	100 U	150 U	150 U	120 U	110 U	100 U	110 U
Aroclor 1248	130	100 U	1900	150 U	120 U	110 U	100 U	110 U
Aroclor 1254	20 U	100 U	150 U	150 U	120 U	110 U	100 U	110 U
Aroclor 1260	20 U	100 U	150 U	150 U	120 U	110 U	100 U	110 U
Total (mg/kg)	**0.13**	**<0.1**	**1.9**	**<0.15**	**<0.12**	**<0.11**	**<0.1**	**<0.11**

J = Estimated value. Result below reporting limit.
U = Non-detect at or above reporting limit shown.

Table 2
Initial Investigation (2007) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	E-4	E-5	E-6	E-8	E-11	E-13	E-14	E-15
Sampling Date:	10/30/2007	10/29/2007	10/29/2007	10/24/2007	10/23/2007	10/26/2007	10/26/2007	10/26/2007
Depth (feet bgs):	5-5.5	7-7.5	7-7.5	7-7.5	5-5.5	8-8.5	8-8.5	7.5-8
PCBs (µg/Kg)								
Aroclor 1016	110 U	120 U	120 U	23 U	19 U	120 U	20 U	120 U
Aroclor 1221	110 U	120 U	120 U	23 U	19 U	120 U	20 U	120 U
Aroclor 1232	110 U	120 U	120 U	23 U	19 U	120 U	20 U	120 U
Aroclor 1242	110 U	120 U	120 U	23 U	19 U	120 U	20 U	120 U
Aroclor 1248	870	25000	790	2700	150	1900	20 U	120 U
Aroclor 1254	110 U	120 U	120 U	23 U	19 U	120 U	20 U	120 U
Aroclor 1260	110 U	120 U	120 U	23 U	19 U	120 U	20 U	120 U
Total (mg/kg)	**0.87**	**25**	**0.79**	**2.7**	**0.15**	**1.9**	**<0.02**	**<0.12**

Grid ID:	F-1	F-2	F-3	F-4	F-5	F-6	F-8	F-11
Sampling Date:	10/31/2007	10/31/2007	10/30/2007	10/30/2007	10/29/2007	10/29/2007	10/24/2007	10/23/2007
Depth (feet bgs):	8-8.5	5-5.5	5-5.5	5-5.5	7-7.5	7-7.5	7.5-8	7.5-8
PCBs (µg/Kg)								
Aroclor 1016	100 U	120 U	110 U	120 U	110 U	130 U	52 U	19 U
Aroclor 1221	100 U	120 U	110 U	120 U	110 U	130 U	52 U	19 U
Aroclor 1232	100 U	120 U	110 U	120 U	110 U	130 U	52 U	19 U
Aroclor 1242	100 U	120 U	110 U	120 U	110 U	130 U	52 U	19 U
Aroclor 1248	100 U	120 U	110 U	120	10000	2400	1200	19 U
Aroclor 1254	100 U	120 U	110 U	120 U	110 U	130 U	52 U	19 U
Aroclor 1260	100 U	120 U	110 U	120 U	110 U	130 U	52 U	19 U
Total (mg/kg)	**<0.1**	**<0.12**	**<0.11**	**0.12**	**10**	**2.4**	**1.2**	**<0.019**

Grid ID:	F-13	F-14	F-15	G-1	G-2	G-3	G-4	G-5
Sampling Date:	10/26/2007	10/26/2007	10/26/2007	10/31/2007	10/31/2007	10/31/2007	10/31/2007	10/29/2007
Depth (feet bgs):	5-5.5	8-8.5	7-7.5	5-5.5	5-5.5	5-5.5	5-5.5	7-7.5
PCBs (µg/Kg)								
Aroclor 1016	110 U	110 U	21 U	110 U	110 U	130 U	110 U	91 U
Aroclor 1221	110 U	110 U	21 U	110 U	110 U	130 U	110 U	91 U
Aroclor 1232	110 U	110 U	21 U	110 U	110 U	130 U	110 U	91 U
Aroclor 1242	110 U	110 U	21 U	110 U	110 U	130 U	110 U	91 U
Aroclor 1248	340	110 U	21 U	110 U	110 U	210	86 J	3200
Aroclor 1254	110 U	110 U	21 U	110 U	110 U	130 U	110 U	91 U
Aroclor 1260	110 U	110 U	21 U	110 U	110 U	130 U	110 U	91 U
Total (mg/kg)	**0.34**	**<0.11**	**<0.021**	**<0.11**	**<0.11**	**0.21**	**0.086 J**	**3.2**

Grid ID:	G-6	G-7	G-8	G-8	G-9	G-10	G-11	G-11
Sampling Date:	10/29/2007	10/24/2007	10/24/2007	10/24/2007	10/24/2007	10/24/2007	10/23/2007	10/23/2007
Depth (feet bgs):	7-7.5	7.5-8	0.5-1	10.5-11	7-7.5	7.5-8	0.5-1	6-6.5
PCBs (µg/Kg)								
Aroclor 1016	250 U	23 U	-	19 U	110 U	22 U	21 U	21 U
Aroclor 1221	250 U	23 U	-	19 U	110 U	22 U	21 U	21 U
Aroclor 1232	250 U	23 U	-	19 U	110 U	22 U	21 U	21 U
Aroclor 1242	250 U	23 U	-	19 U	110 U	22 U	21 U	21 U
Aroclor 1248	6700	380	-	240	4100	370	1400	60
Aroclor 1254	250 U	23 U	19 U	-	110 U	22 U	21 U	21 U
Aroclor 1260	250 U	23 U	-	19 U	110 U	22 U	21 U	21 U
Total (mg/kg)	**6.7**	**0.38**	**<0.019**	**0.24**	**4.1**	**0.37**	**1.4**	**0.06**

J = Estimated value. Result below reporting limit.
U = Non-detect at or above reporting limit shown.

Table 2
Initial Investigation (2007) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	G-13	G-14	H-1	H-2	H-3	H-4	H-5	H-6
Sampling Date:	10/26/2007	10/26/2007	10/31/2007	10/31/2007	10/31/2007	10/25/2007	10/25/2007	10/25/2007
Depth (feet bgs):	5.5-6	8-8.5	5-5.5	5-5.5	5-5.5	8-8.5	8-8.5	8-8.5
PCBs (µg/Kg)								
Aroclor 1016	98 U	27 U	120 U	110 U	3200	26 U	230 U	120 U
Aroclor 1221	98 U	27 U	120 U	110 U	120 U	26 U	230 U	120 U
Aroclor 1232	98 U	27 U	120 U	110 U	120 U	26 U	230 U	120 U
Aroclor 1242	98 U	27 U	120 U	110 U	120 U	26 U	230 U	120 U
Aroclor 1248	98	27 U	120 U	110 U	1000	480	10000	68 J
Aroclor 1254	98 U	27 U	120 U	110 U	120 U	26 U	230 U	120 U
Aroclor 1260	98 U	27 U	120 U	110 U	120 U	26 U	230 U	120 U
Total (mg/kg)	**0.098**	**<0.027**	**<0.12**	**<0.11**	**4.2**	**0.48**	**10**	**0.068 J**

Grid ID:	H-7	H-8	H-8	H-9	H-11	H-13	H-14	I-1
Sampling Date:	10/24/2007	10/24/2007	10/24/2007	10/24/2007	10/23/2007	10/24/2007	10/26/2007	10/31/2007
Depth (feet bgs):	7-7.5	3.5-4	7.5-8	7.5-8	7.5-8	8-8.5	7.5-8	5-5.5
PCBs (µg/Kg)								
Aroclor 1016	230 U	25 U	52 U	100 U	20 U	22 U	22 U	110 U
Aroclor 1221	230 U	25 U	52 U	100 U	20 U	22 U	22 U	110 U
Aroclor 1232	230 U	25 U	52 U	100 U	20 U	22 U	22 U	110 U
Aroclor 1242	230 U	25 U	52 U	100 U	20 U	22 U	22 U	110 U
Aroclor 1248	5200	140	1600	2200	610	340	450	110 U
Aroclor 1254	230 U	25 U	52 U	100 U	20 U	22 U	22 U	110 U
Aroclor 1260	230 U	25 U	52 U	100 U	20 U	22 U	22 U	110 U
Total (mg/kg)	**5.2**	**0.14**	**1.6**	**2.2**	**0.61**	**0.34**	**0.45**	**<0.11**

Grid ID:	I-2	I-3	I-4	I-5	I-6	I-7	I-8	I-9
Sampling Date:	10/31/2007	10/31/2007	10/25/2007	10/25/2007	10/25/2007	10/24/2007	10/25/2007	10/25/2007
Depth (feet bgs):	5-5.5	5-5.5	7.5-8	8-8.5	7.5-8	8-8.5	7.5-8	7.5-8
PCBs (µg/Kg)								
Aroclor 1016	120 U	6000 U	25 U	220 U	140 U	39 U	95 U	210 U
Aroclor 1221	120 U	6000 U	25 U	220 U	140 U	39 U	95 U	210 U
Aroclor 1232	120 U	6000 U	25 U	220 U	140 U	39 U	95 U	210 U
Aroclor 1242	120 U	6000 U	25 U	220 U	140 U	39 U	95 U	210 U
Aroclor 1248	120 U	320000	680	6600	5200	1400	2100	3800
Aroclor 1254	120 U	6000 U	25 U	220 U	140 U	39 U	95 U	210 U
Aroclor 1260	120 U	6000 U	25 U	220 U	140 U	39 U	95 U	210 U
Total (mg/kg)	**<0.12**	**320**	**0.68**	**6.6**	**5.2**	**1.4**	**2.1**	**3.8**

Grid ID:	I-10	I-11	I-13	I-14	I-15	J-1	J-2	J-3
Sampling Date:	10/25/2007	10/23/2007	10/24/2007	10/26/2007	10/26/2007	10/31/2007	10/31/2007	10/31/2007
Depth (feet bgs):	9.5-10	4.5-5	8-8.5	8-8.5	8-8.5	7.5-8	8-8.5	5-5.5
PCBs (µg/Kg)								
Aroclor 1016	100 U	20 U	20 U	110 U	21 U	110 U	150 U	130 U
Aroclor 1221	100 U	20 U	20 U	110 U	21 U	110 U	150 U	130 U
Aroclor 1232	100 U	20 U	20 U	110 U	21 U	110 U	150 U	130 U
Aroclor 1242	100 U	20 U	20 U	110 U	21 U	110 U	150 U	130 U
Aroclor 1248	93 J	60	36	470	1100	94 J	150 U	10000
Aroclor 1254	100 U	20 U	20 U	110 U	21 U	110 U	150 U	130 U
Aroclor 1260	100 U	20 U	20 U	110 U	21 U	110 U	150 U	130 U
Total (mg/kg)	**0.093 J**	**0.06**	**0.036**	**0.47**	**1.1**	**0.094 J**	**<0.15**	**10**

J = Estimated value. Result below reporting limit.
U = Non-detect at or above reporting limit shown.

Table 2
Initial Investigation (2007) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	J-4	J-5	J-6	J-7	J-8	J-9	J-10	J-11
Sampling Date:	10/25/2007	10/25/2007	10/25/2007	10/24/2007	10/24/2007	10/25/2007	10/25/2007	10/23/2007
Depth (feet bgs):	8-8.5	8-8.5	8-8.5	7.5-8	7.5-8	8-8.5	8-8.5	7.5-8
PCBs (µg/Kg)								
Aroclor 1016	130 U	140 U	200 U	110 U	220 U	210 U	54 U	20 U
Aroclor 1221	130 U	140 U	200 U	110 U	220 U	210 U	54 U	20 U
Aroclor 1232	130 U	140 U	200 U	110 U	220 U	210 U	54 U	20 U
Aroclor 1242	130 U	140 U	200 U	110 U	220 U	210 U	54 U	20 U
Aroclor 1248	510	4800	7500	2800	5000	5000	1500	110
Aroclor 1254	130 U	140 U	200 U	110 U	220 U	210 U	54 U	20 U
Aroclor 1260	130 U	140 U	200 U	110 U	220 U	210 U	54 U	20 U
Total (mg/kg)	**0.51**	**4.8**	**7.5**	**2.8**	**5**	**5**	**1.5**	**0.11**

Grid ID:	J-12	J-13	J-14	J-15	J-16	K-1	K-2	K-3
Sampling Date:	10/23/2007	10/23/2007	10/23/2007	10/24/2007	10/24/2007	10/31/2007	10/31/2007	10/31/2007
Depth (feet bgs):	4.5-5	5-5.5	6.5-7	8-8.5	8-8.5	5-5.5	5-5.5	5-5.5
PCBs (µg/Kg)								
Aroclor 1016	21 U	19 U	20 U	22 U	20 U	210 U	110 U	140 U
Aroclor 1221	21 U	19 U	20 U	22 U	20 U	210 U	110 U	140 U
Aroclor 1232	21 U	19 U	20 U	22 U	20 U	210 U	110 U	140 U
Aroclor 1242	21 U	19 U	20 U	22 U	20 U	210 U	110 U	140 U
Aroclor 1248	83	18 J	130	770	20 U	11000	7700	4100
Aroclor 1254	21 U	19 U	20 U	22 U	20 U	210 U	110 U	140 U
Aroclor 1260	21 U	19 U	20 U	22 U	20 U	210 U	110 U	140 U
Total (mg/kg)	**0.083**	**0.018 J**	**0.13**	**0.77**	**<0.02**	**11**	**7.7**	**4.1**

Grid ID:	K-4	K-8	K-13	K-14	K-15	K-16	L-1	L-2
Sampling Date:	10/31/2007	10/25/2007	10/23/2007	10/23/2007	10/24/2007	10/24/2007	10/31/2007	10/31/2007
Depth (feet bgs):	5-5.5	7.5-8	5-5.5	7.5-8	8-8.5	7.5-8	8-8.5	8-8.5
PCBs (µg/Kg)								
Aroclor 1016	120 U	2100 U	19 U	22 U	20 U	19 U	110 U	120 U
Aroclor 1221	120 U	2100 U	19 U	22 U	20 U	19 U	110 U	120 U
Aroclor 1232	120 U	2100 U	19 U	22 U	20 U	19 U	110 U	120 U
Aroclor 1242	120 U	2100 U	19 U	22 U	20 U	19 U	110 U	120 U
Aroclor 1248	8200	110000	17 J	22 U	20 U	19 U	14 J	120 U
Aroclor 1254	120 U	2100 U	19 U	22 U	20 U	19 U	110 U	120 U
Aroclor 1260	120 U	2100 U	19 U	22 U	20 U	19 U	110 U	120 U
Total (mg/kg)	**8.2**	**110**	**0.017 J**	**<0.022**	**<0.02**	**<0.019**	**0.014 J**	**<0.12**

Grid ID:	L-3	L-4	L-5	L-6	L-7	L-8	L-9	L-10
Sampling Date:	11/1/2007	11/1/2007	11/1/2007	11/1/2007	11/1/2007	11/1/2007	11/1/2007	11/1/2007
Depth (feet bgs):	5-5.5	6-6.5	5-5.5	4.5-5	5-5.5	5-5.5	3-3.5	5-5.5
PCBs (µg/Kg)								
Aroclor 1016	140 U	100 U	120 U	95 U	96 U	450 U	100 U	550 U
Aroclor 1221	140 U	100 U	120 U	95 U	96 U	450 U	100 U	550 U
Aroclor 1232	140 U	100 U	120 U	95 U	96 U	450 U	100 U	550 U
Aroclor 1242	140 U	100 U	120 U	95 U	96 U	450 U	100 U	550 U
Aroclor 1248	140 U	100 U	91 J	7500	12000	30000	1800	37000
Aroclor 1254	140 U	100 U	120 U	95 U	96 U	450 U	100 U	550 U
Aroclor 1260	140 U	100 U	120 U	95 U	96 U	450 U	100 U	550 U
Total (mg/kg)	**<0.14**	**<0.1**	**0.091 J**	**7.5**	**12**	**30**	**1.8**	**37**

J = Estimated value. Result below reporting limit.
U = Non-detect at or above reporting limit shown.

Table 2
Initial Investigation (2007) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	L-11	M-1	M-5	M-6	M-7	M-8	M-9	M-10
Sampling Date:	11/1/2007	10/31/2007	11/1/2007	11/1/2007	11/1/2007	11/1/2007	11/1/2007	11/1/2007
Depth (feet bgs):	5-5.5	8-8.5	5-5.5	5-5.5	5-5.5	8-8.5	5-5.5	5-5.5
PCBs (µg/Kg)								
Aroclor 1016	590 U	94 U	110 U	1100 U	980 U	120 U	500 U	1400 U
Aroclor 1221	590 U	94 U	110 U	1100 U	980 U	120 U	500 U	1400 U
Aroclor 1232	590 U	94 U	110 U	1100 U	980 U	120 U	500 U	1400 U
Aroclor 1242	590 U	94 U	110 U	1100 U	980 U	120 U	500 U	1400 U
Aroclor 1248	22000	22 J	2800	95000	73000	390	28000	67000
Aroclor 1254	590 U	94 U	110 U	1100 U	980 U	120 U	500 U	1400 U
Aroclor 1260	590 U	94 U	110 U	1100 U	980 U	120 U	500 U	1400 U
Total (mg/kg)	**22**	**0.022 J**	**2.8**	**95**	**73**	**0.39**	**28**	**67**

Grid ID:	M-11
Sampling Date:	11/1/2007
Depth (feet bgs):	5-5.5
PCBs (µg/Kg)	
Aroclor 1016	510 U
Aroclor 1221	510 U
Aroclor 1232	510 U
Aroclor 1242	510 U
Aroclor 1248	31000
Aroclor 1254	510 U
Aroclor 1260	510 U
Total (mg/kg)	**31**

J = Estimated value. Result below reporting limit.
U = Non-detect at or above reporting limit shown.

Table 3

LNAPL Well Gauging and PCB Sampling Results (2007)
Chemtura Corporation
Brooklyn, NY

Well ID	Zone	Date	DTL (ft. bTOC)	DTW (ft. bTOC)	LNAPL Thickness (feet)	Total PCBs in LNAPL (mg/kg)
E-3	Zone 2	11/17/2007	NL	6.85		
E-4	Zone 2	11/18/2007	NL	6.40		
E-5	Zone 2	11/17/2007	NL	6.05		
E-6	Zone 2	1/16/2008	NL	4.49		
E-7	Zone 2	11/18/2007	6.84	7.42	0.58	**130**
E-8	Zone 2	12/12/2007	6.20	6.80	0.6	**130**
E-9	Zone 2	11/18/2007	6.22	6.30	0.08	
E-10	Zone 2	1/16/2008	NL	4.54	Residual LNAPL	
E-11	Zone 2	11/17/2007	6.85	7.37	0.52	**120**
E-12	Zone 2	11/18/2007	6.60	6.80	0.2	
E-13	Zone 2	11/18/2007	6.35	6.60	0.25	**1.6**
E-14	Zone 2	11/17/2007	5.90	6.76	0.86	**450**
E-15	Zone 2	12/12/2007	NL	6.44		
E-16	Zone 2	11/18/2007	6.79	7.18	0.39	**200**
E-17	Zone 2	1/16/2008	NL	6.51		
E-18	Zone 2	1/16/2008	NL	6.58		
I-7	Zone 2	11/17/2007	NL	7.20		
I-8	Zone 2	11/17/2007	NL	6.80		
I-9	Zone 2	12/12/2007	NL	7.84		
I-10	Zone 2	11/17/2007	NL	8.05		
I-11	Zone 2	12/12/2007	NL	8.47		
I-12	Zone 2	12/12/2007	NL	8.23		
I-13	Zone 2	12/12/2007	NL	7.90		
I-14	Zone 2	12/12/2007	NL	7.42		
I-15	Zone 2	12/12/2007	NL	8.54		
I-16	Zone 2	12/12/2007	NL	8.18		
I-17	Zone 2	12/12/2007	NL	8.16		
I-18	Zone 2	12/12/2007	NL	7.86		
I-19	Zone 2	12/12/2007	NL	8.33		
I-20	Zone 2	12/12/2007	NL	8.89		
I-21	Zone 2	11/17/2007	NL	4.75		
I-22	Zone 2	11/17/2007	NL	6.72		
I-23	Zone 2	11/18/2007	NL	6.71	Residual LNAPL	

DTL = Depth to LNAPL; DTW = Depth to Water; TD = Total Depth
NL = Non-aqueous phase product not present in well; bTOC = below top of casing.
= Well in operation when PCBs were first detected in the oil/water separator.

Table 3

LNAPL Well Gauging and PCB Sampling Results (2007)
Chemtura Corporation
Brooklyn, NY

Well ID	Zone	Date	DTL (ft. bTOC)	DTW (ft. bTOC)	LNAPL Thickness (feet)	Total PCBs in LNAPL (mg/kg)
E-19	Zone 3	11/17/2007	5.50	7.35	1.85	**30**
E-20	Zone 3	Well Inaccessible				
E-21	Zone 3	1/16/2008	NL	4.43		
E-22	Zone 3	Well Inaccessible				
E-23	Zone 3	11/17/2007	NL	4.75		
E-24	Zone 3	11/18/2007	NL	5.50		
E-25	Zone 3	1/16/2008	NL	5.01		
E-26	Zone 3	Well Inaccessible				
E-27	Zone 3	12/12/2007	4.39	4.66	0.27	**13**
E-28	Zone 3	12/12/2007	NL	4.67		
E-29	Zone 3	1/16/2008	NL	5.24		
E-30	Zone 3	1/16/2008	NL	4.51	Residual LNAPL	
E-31	Zone 3	1/16/2008	NL	4.60	Residual LNAPL	
E-32	Zone 3	1/16/2008	NL	4.62	Residual LNAPL	
E-33	Zone 3	1/16/2008	NL	4.64		
E-34	Zone 3	12/12/2007	NL	4.66		
E-35	Zone 3	12/12/2007	NL	5.37		
E-36	Zone 3	12/12/2007	NL	5.52		
I-24	Zone 3	11/17/2007	NL	6.30		
I-25	Zone 3	12/12/2007	NL	6.24		
I-26	Zone 3	Well Inaccessible				
I-27	Zone 3	11/17/2007	NL	6.52		
I-28	Zone 3	Well Inaccessible				
I-29	Zone 3	11/18/2007	NL	5.26		
I-30	Zone 3	11/17/2007	NL	6.39		
I-31	Zone 3	11/17/2007	NL	5.61		
I-32	Zone 3	Well Inaccessible				
I-33	Zone 3	11/18/2007	NL	5.85		
I-34	Zone 3	11/17/2007	NL	6.15	Residual LNAPL	
I-35	Zone 3	11/17/2007	NL	4.55		
I-36	Zone 3	Well Inaccessible				
I-37	Zone 3	11/17/2007	NL	6.10		
I-38	Zone 3	11/17/2007	NL	5.34	Residual LNAPL	
I-39	Zone 3	11/18/2007	NL	6.03		
I-40	Zone 3	Well Inaccessible				
I-41	Zone 3	11/18/2007	NL	6.90		

DTL = Depth to LNAPL; DTW = Depth to Water; TD = Total Depth
NL = Non-aqueous phase product not present in well; bTOC = below top of casing.
= Well in operation when PCBs were first detected in the oil/water separator.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	B-12																	
Sampling Date:	9/19/2008																	
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
PCBs (µg/Kg)																		
Aroclor 1016	380 U	39 U	40 U	38 U	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Aroclor 1221	380 U	39 U	40 U	38 U	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Aroclor 1232	380 U	39 U	40 U	38 U	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Aroclor 1242	380 U	39 U	40 U	38 U	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Aroclor 1248	1900	180	140	190	170	340	300	140	270	150	200	49	170	42 U	43 U	43 U	44 U	40 U
Aroclor 1254	380 U	39 U	40 U	38 U	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Aroclor 1260	560	65	41	61	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Aroclor 1262	380 U	39 U	40 U	38 U	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Aroclor 1268	380 U	39 U	40 U	38 U	41 U	380 U	39 U	39 U	39 U	42 U	40 U	39 U	40 U	42 U	43 U	43 U	44 U	40 U
Total (mg/kg)	**2.46**	**0.245**	**0.181**	**0.251**	**0.17**	**0.34**	**0.3**	**0.14**	**0.27**	**0.15**	**0.2**	**0.049**	**0.17**	**<0.042**	**<0.043**	**<0.043**	**<0.044**	**<0.04**

Grid ID:	B-17								B-4	B-5			B-6				B-7	
Sampling Date:	9/16/2008								9/16/2008	9/16/2008			9/16/2008				9/16/2008	
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	5-6	0-1	5-6	7-8	0-1	5-6	6-7	7-8	0-1	7-8
PCBs (µg/Kg)																		
Aroclor 1016	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Aroclor 1221	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Aroclor 1232	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Aroclor 1242	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Aroclor 1248	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	44	41 U	45 U	1500	300	780	13000	35	1400
Aroclor 1254	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Aroclor 1260	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Aroclor 1262	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Aroclor 1268	370 U	1900 U	360 U	410 U	790 U	820 U	490 U	37 U	38 U	41 U	41 U	45 U	200 U	36 U	200 U	2400 U	37 U	210 U
Total (mg/kg)	**<0.37**	**<1.9**	**<0.36**	**<0.41**	**<0.79**	**<0.82**	**<0.49**	**<0.037**	**<0.038**	**0.044**	**<0.041**	**<0.045**	**1.5**	**0.3**	**0.78**	**13**	**0.035**	**1.4**

Grid ID:	C-4								C-5							
Sampling Date:	9/16/2008								9/16/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Aroclor 1221	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Aroclor 1232	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Aroclor 1242	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Aroclor 1248	2300	68 J	100	22 J	1100	38 U	41 U	45 U	2700	8200	380 U	41 U	93	17000	38 U	46 U
Aroclor 1254	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Aroclor 1260	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Aroclor 1262	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Aroclor 1268	370 U	35 U	37 U	36 U	370 U	38 U	41 U	45 U	360 U	780 U	380 U	41 U	40 U	2200 U	38 U	46 U
Total (mg/kg)	**2.3**	**0.068 J**	**0.1**	**0.022 J**	**1.1**	**<0.038**	**<0.041**	**<0.045**	**2.7**	**8.2**	**<0.38**	**<0.041**	**0.093**	**17**	**<0.038**	**<0.046**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	C-6								C-7							
Sampling Date:	9/16/2008								9/16/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Aroclor 1221	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Aroclor 1232	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Aroclor 1242	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Aroclor 1248	11000	670	37 U	36 U	950	52	46 U	46 U	290	29 J	41 U	36 U	37 U	36 U	41	34000
Aroclor 1254	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Aroclor 1260	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Aroclor 1262	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Aroclor 1268	1900 U	42 U	37 U	36 U	200 U	37 U	46 U	46 U	40 U	45 U	41 U	36 U	37 U	36 U	40 U	4700 U
Total (mg/kg)	**11**	**0.67**	**<0.037**	**<0.036**	**0.95**	**0.052**	**<0.046**	**<0.046**	**0.29**	**0.029 J**	**<0.041**	**<0.036**	**<0.037**	**<0.036**	**0.041**	**34**

Grid ID:	D-5								D-6							
Sampling Date:	9/16/2008								9/16/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Aroclor 1221	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Aroclor 1232	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Aroclor 1242	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Aroclor 1248	1200	2100	8100	31000	9900	1700	37	63000	5800	38 U	26	37 U	92	420	11000	18000
Aroclor 1254	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Aroclor 1260	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Aroclor 1262	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Aroclor 1268	180 U	390 U	1900 U	4800 U	810 U	220 U	39 U	5600 U	780 U	38 U	39 U	37 U	43 U	51 U	2100 U	2300 U
Total (mg/kg)	**1.2**	**2.1**	**8.1**	**31**	**9.9**	**1.7**	**0.037**	**63**	**5.8**	**<0.038**	**0.026**	**<0.037**	**0.092**	**0.42**	**11**	**18**

Grid ID:	D-7								D-19						
Sampling Date:	9/17/2008								9/16/2008						
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7
PCBs (µg/Kg)															
Aroclor 1016	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1221	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1232	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1242	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1248	2400	500	400	320	270	470	330	16000	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1254	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	76	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1260	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1262	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Aroclor 1268	400 U	180 U	190 U	200 U	190 U	200 U	38 U	2200 U	41 U	38 U	38 U	40 U	38 U	38 U	38 U
Total (mg/kg)	**2.4**	**0.5**	**0.4**	**0.32**	**0.27**	**0.47**	**0.33**	**16**	**0.076**	**<0.038**	**<0.038**	**<0.04**	**<0.038**	**<0.038**	**<0.038**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	E-1								E-5							
Sampling Date:	9/18/2008								9/17/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Aroclor 1221	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Aroclor 1232	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Aroclor 1242	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Aroclor 1248	140	89	36 U	37 U	130	36 U	39 U	39 U	710	22 J	37 U	56	29 J	160	41 U	7300
Aroclor 1254	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Aroclor 1260	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Aroclor 1262	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Aroclor 1268	37 U	41 U	36 U	37 U	37 U	36 U	39 U	39 U	37 U	36 U	37 U	39 U	36 U	37 U	41 U	920 U
Total (mg/kg)	**0.14**	**0.089**	**<0.036**	**<0.037**	**0.13**	**<0.036**	**<0.039**	**<0.039**	**0.71**	**0.022 J**	**<0.037**	**0.056**	**0.029 J**	**0.16**	**<0.041**	**7.3**

Grid ID:	E-22					E-24							
Sampling Date:	9/24/2008					9/23/2008							
Depth (feet bgs):	2-3	3-4	4-5	5-6	6-7	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)													
Aroclor 1016	35 U	35 U	37 U	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Aroclor 1221	35 U	35 U	37 U	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Aroclor 1232	35 U	35 U	37 U	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Aroclor 1242	35 U	35 U	37 U	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Aroclor 1248	19 J	350	170	2500	38 U	37 U	9400	43 U	36 U	740	41 U	40 U	43 U
Aroclor 1254	35 U	35 U	37 U	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Aroclor 1260	35 U	35 U	47	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Aroclor 1262	35 U	35 U	37 U	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Aroclor 1268	35 U	35 U	37 U	730 U	38 U	37 U	1800 U	43 U	36 U	190 U	41 U	40 U	43 U
Total (mg/kg)	**0.019 J**	**0.35**	**0.217**	**2.5**	**<0.038**	**<0.037**	**9.4**	**<0.043**	**<0.036**	**0.74**	**<0.041**	**<0.04**	**<0.043**

Grid ID:	F-5								F-20			
Sampling Date:	9/17/2008								9/24/2008			
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4
PCBs (µg/Kg)												
Aroclor 1016	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Aroclor 1221	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Aroclor 1232	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Aroclor 1242	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Aroclor 1248	54 U	41 U	39 U	490 U	43 U	47 U	730	9800	35 U	37 U	36 U	39 U
Aroclor 1254	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Aroclor 1260	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Aroclor 1262	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Aroclor 1268	54 U	41 U	39 U	490 U	43 U	47 U	47 U	940 U	35 U	37 U	36 U	39 U
Total (mg/kg)	**<0.054**	**<0.041**	**<0.039**	**<0.49**	**<0.043**	**<0.047**	**0.73**	**9.8**	**<0.035**	**<0.037**	**<0.036**	**<0.039**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	F-23								G-8									
Sampling Date:	9/23/2008								9/19/2008									
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10
PCBs (µg/Kg)																		
Aroclor 1016	38 U	36 U	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Aroclor 1221	38 U	36 U	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Aroclor 1232	38 U	36 U	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Aroclor 1242	38 U	36 U	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Aroclor 1248	120	130	37 U	35 U	36 U	37 U	37 U	47 U	100	100	170	250	300	200	310	910	740	100
Aroclor 1254	38 U	36 U	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Aroclor 1260	61	27 J	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Aroclor 1262	38 U	36 U	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Aroclor 1268	38 U	36 U	37 U	35 U	36 U	37 U	37 U	47 U	37 U	37 U	40 U	38 U	40 U	40 U	39 U	200 U	200 U	52 U
Total (mg/kg)	**0.181**	**0.157 J**	**<0.037**	**<0.035**	**<0.036**	**<0.037**	**<0.037**	**<0.047**	**0.1 0**	**0.1 0**	**0.17 0**	**0.25 0**	**0.3 0**	**0.2 0**	**0.31 0**	**0.91 0**	**0.74 0**	**0.1 0**

Grid ID:	G-8								G-23							
Sampling Date:	9/19/2008								9/23/2008							
Depth (feet bgs):	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	190 U	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Aroclor 1221	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	190 U	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Aroclor 1232	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	190 U	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Aroclor 1242	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	190 U	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Aroclor 1248	45 U	50 U	64 U	130	46 U	45 U	53 U	45 U	530	39 U	38 U	37 U	27 J	43 U	36 U	44 U
Aroclor 1254	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	190 U	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Aroclor 1260	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	110 J	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Aroclor 1262	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	190 U	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Aroclor 1268	45 U	50 U	64 U	41 U	46 U	45 U	53 U	45 U	190 U	39 U	38 U	37 U	38 U	43 U	36 U	44 U
Total (mg/kg)	**<0.045 0**	**<0.050 0**	**<0.064 0**	**0.13 0**	**<0.046 0**	**<0.045 0**	**<0.053 0**	**<0.045 0**	**0.64 J**	**<0.039 0**	**<0.038 0**	**<0.037 0**	**0.027 J**	**<0.043 0**	**<0.036 0**	**<0.044 0**

Grid ID:	H-5								H-18				H-24			
Sampling Date:	9/17/2008								9/24/2008				9/24/2008			
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4
PCBs (µg/Kg)																
Aroclor 1016	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Aroclor 1221	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Aroclor 1232	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Aroclor 1242	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Aroclor 1248	560	460	220	250	270	380	390	6700	35 U	35 U	40 U	40 U	40	160	48	36 U
Aroclor 1254	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Aroclor 1260	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Aroclor 1262	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Aroclor 1268	38 U	37 U	37 U	39 U	37 U	43 U	47 U	500 U	35 U	35 U	40 U	40 U	38 U	38 U	37 U	36 U
Total (mg/kg)	**0.56**	**0.46**	**0.22**	**0.25**	**0.27**	**0.38**	**0.39**	**6.7**	**<0.035**	**<0.035**	**<0.04**	**<0.04**	**0.04**	**0.16**	**0.048**	**<0.036**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	H-23								I-3									
Sampling Date:	9/23/2008								9/18/2008									
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10
PCBs (µg/Kg)																		
Aroclor 1016	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	360 U	380 U	4300 U	22000 U	49000 U	20000 U	89000 U
Aroclor 1221	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	360 U	380 U	4300 U	22000 U	49000 U	20000 U	89000 U
Aroclor 1232	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	360 U	380 U	4300 U	22000 U	49000 U	20000 U	89000 U
Aroclor 1242	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	1500	4400	30000	160000	49000 U	20000 U	89000 U
Aroclor 1248	43	39 U	39 U	37 U	52	88	820	2700	80000	17000	91000	360 U	380 U	4300 U	22000 U	600000	180000	850000
Aroclor 1254	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	360 U	380 U	4300 U	22000 U	49000 U	20000 U	89000 U
Aroclor 1260	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	360 U	380 U	4300 U	22000 U	49000 U	20000 U	89000 U
Aroclor 1262	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	360 U	380 U	4300 U	22000 U	49000 U	20000 U	89000 U
Aroclor 1268	37 U	39 U	39 U	37 U	39 U	72 U	390 U	850 U	7100 U	3700 U	7000 U	360 U	380 U	4300 U	22000 U	49000 U	20000 U	89000 U
Total (mg/kg)	**0.043**	**<0.039**	**<0.039**	**<0.037**	**0.052**	**0.088**	**0.82**	**2.7**	**80**	**17**	**91**	**1.5**	**4.4**	**30**	**160**	**600**	**180**	**850**

Grid ID:	I-3								I-23							
Sampling Date:	9/18/2008								9/23/2008							
Depth (feet bgs):	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1221	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1232	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1242	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1248	38000	9900	63000	110000	9100	1700	250	720	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1254	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1260	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1262	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Aroclor 1268	4400 U	2400 U	23000 U	20000 U	2300 U	460 U	44 U	44 U	37 U	37 U	36 U	36 U	36 U	37 U	38 U	48 U
Total (mg/kg)	**38**	**9.9**	**63**	**110**	**9.1**	**1.7**	**0.25**	**0.72**	**<0.037**	**<0.037**	**<0.036**	**<0.036**	**<0.036**	**<0.037**	**<0.038**	**<0.048**

Grid ID:	J-3								J-14							
Sampling Date:	9/17/2008								9/18/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Aroclor 1221	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Aroclor 1232	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Aroclor 1242	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Aroclor 1248	14000	68 J	96	54	130 J	380 U	420 U	8100	240 J	120 J	150	160 J	130 J	120 J	60 J	40 U
Aroclor 1254	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Aroclor 1260	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Aroclor 1262	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Aroclor 1268	2000 U	38 U	38 U	38 U	37 U	380 U	420 U	940 U	38 U	38 U	39 U	38 U	38 U	39 U	37 U	40 U
Total (mg/kg)	**14**	**0.068 J**	**0.096**	**0.054**	**0.13 J**	**<0.38**	**<0.42**	**8.1**	**0.24 J**	**0.12 J**	**0.15**	**0.16 J**	**0.13 J**	**0.12 J**	**0.06 J**	**<0.04**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	J-20						J-22							J-25
Sampling Date:	9/19/2008						9/24/2008							9/24/2008
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	0-1	1-2	2-3	3-4	4-5	5-6	6-7	3-4
PCBs (µg/Kg)														
Aroclor 1016	35 U	37 U	38 U	37 U	37 U	40 U	37 U	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Aroclor 1221	35 U	37 U	38 U	37 U	37 U	40 U	37 U	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Aroclor 1232	35 U	37 U	38 U	37 U	37 U	40 U	37 U	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Aroclor 1242	35 U	37 U	38 U	37 U	37 U	40 U	37 U	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Aroclor 1248	35 U	37 U	38 U	37 U	37 U	40 U	200	38 U	38 U	36 U	37 U	37 U	38 U	96
Aroclor 1254	35 U	37 U	38 U	37 U	37 U	40 U	37 U	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Aroclor 1260	35 U	37 U	38 U	37 U	37 U	40 U	24 J	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Aroclor 1262	35 U	37 U	38 U	37 U	37 U	40 U	37 U	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Aroclor 1268	35 U	37 U	38 U	37 U	37 U	40 U	37 U	38 U	38 U	36 U	37 U	37 U	38 U	39 U
Total (mg/kg)	**<0.035**	**<0.037**	**<0.038**	**<0.037**	**<0.037**	**<0.04**	**0.224 J**	**<0.038**	**<0.038**	**<0.036**	**<0.037**	**<0.037**	**<0.038**	**0.096**

Grid ID:	K-1								K-5							
Sampling Date:	9/18/2008								9/17/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Aroclor 1221	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Aroclor 1232	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Aroclor 1242	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Aroclor 1248	1100	38 U	38 U	36 U	39 U	37 U	260	26000	2300	4200	3000	970	1100	1100	650	5200
Aroclor 1254	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Aroclor 1260	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Aroclor 1262	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Aroclor 1268	190 U	38 U	38 U	36 U	39 U	37 U	39 U	4100 U	370 U	400 U	380 U	190 U	390 U	420 U	250 U	860 U
Total (mg/kg)	**1.1**	**<0.038**	**<0.038**	**<0.036**	**<0.039**	**<0.037**	**0.26**	**26**	**2.3**	**4.2**	**3**	**0.97**	**1.1**	**1.1**	**0.65**	**5.2**

Grid ID:	K-6								K-7							
Sampling Date:	9/17/2008								9/17/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Aroclor 1221	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Aroclor 1232	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Aroclor 1242	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Aroclor 1248	47000	5300	1100	810	9400	580	2700	8700	39000	40000	80000	290000	160000	140000	56000	130000
Aroclor 1254	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Aroclor 1260	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Aroclor 1262	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Aroclor 1268	3600 U	390 U	200 U	190 U	750 U	200 U	420 U	840 U	3700 U	3800 U	15000 U	79000 U	39000 U	42000 U	8100 U	21000 U
Total (mg/kg)	**47**	**5.3**	**1.1**	**0.81**	**9.4**	**0.58**	**2.7**	**8.7**	**39**	**40**	**80**	**290**	**160**	**140**	**56**	**130**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	K-8								K-17								
Sampling Date:	9/17/2008								9/19/2008								
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9
PCBs (µg/Kg)																	
Aroclor 1016	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1221	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1232	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1242	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1248	3400	14000	240 J	240 J	100000	120000	26000	55000	41	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1254	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1260	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1262	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Aroclor 1268	370 U	1900 U	38 U	36 U	8600 U	21000 U	3900 U	9300 U	37 U	37 U	38 U	37 U	39 U	48 U	39 U	37 U	40 U
Total (mg/kg)	**3.4**	**14**	**0.24 J**	**0.24 J**	**100**	**120**	**26**	**55**	**0.041**	**<0.037**	**<0.038**	**<0.037**	**<0.039**	**<0.048**	**<0.039**	**<0.037**	**<0.04**

Grid ID:	K-22								K-25	L-7				
Sampling Date:	9/24/2008								9/19/2008	9/18/2008				
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	7-8	0-1	1-2	2-3	3-4	4-5
PCBs (µg/Kg)														
Aroclor 1016	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Aroclor 1221	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Aroclor 1232	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Aroclor 1242	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Aroclor 1248	1300	38 U	36 U	35 U	38 U	36 U	37 U	39 U	3800	26000	340 U	100000	68000	210000
Aroclor 1254	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Aroclor 1260	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Aroclor 1262	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Aroclor 1268	390 U	38 U	36 U	35 U	38 U	36 U	37 U	39 U	420 U	3500 U	340 U	20000 U	8000 U	39000 U
Total (mg/kg)	**1.3**	**<0.038**	**<0.036**	**<0.035**	**<0.038**	**<0.036**	**<0.037**	**<0.039**	**3.8**	**26**	**<0.34**	**100**	**68**	**210**

Grid ID:	L-8								L-10							
Sampling Date:	9/17/2008								9/17/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Aroclor 1221	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Aroclor 1232	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Aroclor 1242	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Aroclor 1248	160000	89000	210000	120000	180000	150000	390000	170000	13000	2500	1500	1400	3600	2000	2500	520
Aroclor 1254	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Aroclor 1260	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Aroclor 1262	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Aroclor 1268	36000 U	37000 U	76000 U	39000 U	20000 U	22000 U	38000 U	20000 U	970 U	400 U	190 U	210 U	420 U	840 U	850 U	230 U
Total (mg/kg)	**160**	**89**	**210**	**120**	**180**	**150**	**390**	**170**	**13**	**2.5**	**1.5**	**1.4**	**3.6**	**2**	**2.5**	**0.52**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	L-11								L-12							
Sampling Date:	9/17/2008								9/17/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Aroclor 1221	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Aroclor 1232	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Aroclor 1242	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Aroclor 1248	540	480	370 U	670	360 J	740	250 J	760	3700 U	3700 U	4000 U	4000 U	4000 U	410	420	530
Aroclor 1254	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Aroclor 1260	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Aroclor 1262	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Aroclor 1268	400 U	400 U	370 U	480 U	400 U	410 U	420 U	660 U	3700 U	3700 U	4000 U	4000 U	4000 U	400 U	380 U	400 U
Total (mg/kg)	**0.54**	**0.48**	**<0.37**	**0.67**	**0.36 J**	**0.74**	**0.25 J**	**0.76**	**<3.7**	**<3.7**	**<4**	**<4**	**<4**	**0.41**	**0.42**	**0.53**

Grid ID:	L-22					L-25	M-4							
Sampling Date:	9/24/2008					9/24/2008	9/18/2008							
Depth (feet bgs):	3-4	4-5	5-6	6-7	7-8	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)														
Aroclor 1016	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Aroclor 1221	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Aroclor 1232	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Aroclor 1242	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Aroclor 1248	530	22 J	36 U	38 U	38 U	790	860	380 U	360 U	37 U	170	38 U	44 U	39 U
Aroclor 1254	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Aroclor 1260	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Aroclor 1262	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Aroclor 1268	180 U	38 U	36 U	38 U	38 U	190 U	190 U	380 U	360 U	37 U	38 U	38 U	44 U	39 U
Total (mg/kg)	**0.53**	**0.022 J**	**<0.036**	**<0.038**	**<0.038**	**0.79**	**0.86**	**<0.38**	**<0.36**	**<0.037**	**0.17**	**<0.038**	**<0.044**	**<0.039**

Grid ID:	M-6								M-7							
Sampling Date:	9/18/2008								9/18/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	3500 U	2000 U	39 U	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Aroclor 1221	3500 U	2000 U	39 U	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Aroclor 1232	3500 U	2000 U	39 U	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Aroclor 1242	3500 U	2000 U	39 U	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Aroclor 1248	12000	17000	280	73	9500	6400	120000	630	28 J	52	2100	1100	3100	42000	28000	96000
Aroclor 1254	3500 U	2000 U	39 U	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Aroclor 1260	3500 U	2000 U	22 J	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Aroclor 1262	3500 U	2000 U	39 U	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Aroclor 1268	3500 U	2000 U	39 U	36 U	910 U	880 U	23000 U	200 U	37 U	35 U	390 U	190 U	370 U	4500 U	4800 U	9800 U
Total (mg/kg)	**12**	**17**	**0.302 J**	**0.073**	**9.5**	**6.4**	**120**	**0.63**	**0.028 J**	**0.052**	**2.1**	**1.1**	**3.1**	**42**	**28**	**96**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	M-9								M-10									
Sampling Date:	9/18/2008								9/18/2008									
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10
PCBs (µg/Kg)																		
Aroclor 1016	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Aroclor 1221	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Aroclor 1232	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Aroclor 1242	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Aroclor 1248	31 J	35 U	1800	830	1000	190000	200000	17000	3700	1800	3000	270 J	1900	1600	40 U	32000	6500	6400
Aroclor 1254	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Aroclor 1260	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Aroclor 1262	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Aroclor 1268	38 U	35 U	200 U	200 U	180 U	17000 U	14000 U	2300 U	370 U	370 U	440 U	37 U	390 U	370 U	40 U	4200 U	420 U	820 U
Total (mg/kg)	**0.031 J**	**<0.035**	**1.8**	**0.83**	**1**	**190**	**200**	**17**	**3.7**	**1.8**	**3**	**0.27 J**	**1.9**	**1.6**	**<0.04**	**32**	**6.5**	**6.4**

Grid ID:	M-10								M-11							
Sampling Date:	9/18/2008								9/17/2008							
Depth (feet bgs):	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Aroclor 1221	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Aroclor 1232	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Aroclor 1242	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Aroclor 1248	3200	2100	580	420	76	25 J	40 U	59	6800	12000	4200	13000	5200	340 J	20000	25000
Aroclor 1254	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Aroclor 1260	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Aroclor 1262	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Aroclor 1268	410 U	390 U	47 U	50 U	45 U	48 U	40 U	40 U	770 U	2000 U	390 U	2400 U	420 U	44 U	2500 U	2600 U
Total (mg/kg)	**3.2**	**2.1**	**0.58**	**0.42**	**0.076**	**0.025 J**	**<0.04**	**0.059**	**6.8**	**12**	**4.2**	**13**	**5.2**	**0.34 J**	**20**	**25**

Grid ID:	M-12									M-16							
Sampling Date:	9/17/2008									9/19/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8 (a)	8-9	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																	
Aroclor 1016	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Aroclor 1221	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Aroclor 1232	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Aroclor 1242	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Aroclor 1248	460	36 J	1500	1200	250	1200	3200	2.5E+06 U	1200	150	110	40	43	36 U	36 U	37 U	38 U
Aroclor 1254	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Aroclor 1260	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Aroclor 1262	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Aroclor 1268	40 U	38 U	220 U	250 U	41 U	490 U	490 U	2.5E+06 U	230 U	38 U	39 U	36 U	36 U	36 U	36 U	37 U	38 U
Total (mg/kg)	**0.46**	**0.036 J**	**1.5**	**1.2**	**0.25**	**1.2**	**3.2**	**<2500**	**1.2**	**0.15**	**0.11**	**0.04**	**0.043**	**<0.036**	**<0.036**	**<0.037**	**<0.038**

a/ Significant and irreducible matrix interference is responsible for the elevated reporting limit. See Section 2.4.3 of text for further description.
J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	M-19								N-3					N-4			
Sampling Date:	9/23/2008								5/12/2009					9/22/2008			
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	0-1	1-2	2-3	7-8
PCBs (µg/Kg)																	
Aroclor 1016	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	370 U	3600 U	360 U	37 U
Aroclor 1221	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	370 U	3600 U	360 U	37 U
Aroclor 1232	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	370 U	3600 U	360 U	37 U
Aroclor 1242	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	370 U	3600 U	360 U	37 U
Aroclor 1248	2700	55 J	37 U	350	42 U	38 U	39 U	40 U	5800	37 U	37 U	37 U	44 U	370 U	17000	360 U	37 U
Aroclor 1254	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	1400	3600 U	190 J	37 U
Aroclor 1260	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	370 U	3600 U	360 U	37 U
Aroclor 1262	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	370 U	3600 U	360 U	37 U
Aroclor 1268	180 U	37 U	37 U	38 U	42 U	38 U	39 U	40 U	410 U	37 U	37 U	37 U	44 U	370 U	3600 U	360 U	37 U
Total (mg/kg)	**2.7**	**0.055 J**	**<0.037**	**0.35**	**<0.042**	**<0.038**	**<0.039**	**<0.04**	**5.8**	**<0.037**	**<0.037**	**<0.037**	**<0.044**	**1.4**	**17**	**0.19 J**	**<0.037**

Grid ID:	N-5								N-6							
Sampling Date:	9/22/2008								9/22/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	3800 U	3800 U	390 U	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Aroclor 1221	3800 U	3800 U	390 U	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Aroclor 1232	3800 U	3800 U	390 U	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Aroclor 1242	3800 U	3800 U	390 U	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Aroclor 1248	11000	28000	390 U	190 U	110	530	170	550	950	140	380 U	36 U	150	170	50 U	5100
Aroclor 1254	3800 U	3800 U	2900	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Aroclor 1260	3800 U	3800 U	390 U	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Aroclor 1262	3800 U	3800 U	390 U	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Aroclor 1268	3800 U	3800 U	390 U	190 U	37 U	220 U	43 U	220 U	440 U	40 U	380 U	36 U	41 U	41 U	50 U	920 U
Total (mg/kg)	**11**	**28**	**2.9**	**<0.19**	**0.11**	**0.53**	**0.17**	**0.55**	**0.95**	**0.14**	**<0.38**	**<0.036**	**0.15**	**0.17**	**<0.05**	**5.1**

Grid ID:	N-7							N-8						
Sampling Date:	9/22/2008							9/22/2008						
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	0-1	1-2	2-3	3-4	4-5	5-6	6-7
PCBs (µg/Kg)														
Aroclor 1016	380 U	36 U	180 U	180 U	35 U	42 U	8400 U	750 U	780 U	190 U	180 U	38 U	36 U	190 U
Aroclor 1221	380 U	36 U	180 U	180 U	35 U	42 U	8400 U	750 U	780 U	190 U	180 U	38 U	36 U	190 U
Aroclor 1232	380 U	36 U	180 U	180 U	35 U	42 U	8400 U	750 U	780 U	190 U	180 U	38 U	36 U	190 U
Aroclor 1242	380 U	36 U	180 U	180 U	35 U	42 U	8400 U	750 U	780 U	190 U	180 U	38 U	36 U	190 U
Aroclor 1248	380 U	36 U	180 U	180 U	35 U	42 U	88000	750 U	780 U	190 U	180 U	38 U	36 U	520
Aroclor 1254	1500	36 U	180 U	180 U	18 J	42 U	8400 U	6300	2800	510	180 U	29 J	36 U	190 U
Aroclor 1260	380 U	36 U	180 U	180 U	35 U	42 U	8400 U	750 U	780 U	190 U	180 U	38 U	36 U	190 U
Aroclor 1262	380 U	36 U	180 U	180 U	35 U	42 U	8400 U	750 U	780 U	190 U	180 U	38 U	36 U	190 U
Aroclor 1268	380 U	36 U	180 U	180 U	35 U	42 U	8400 U	750 U	780 U	190 U	180 U	38 U	36 U	190 U
Total (mg/kg)	**1.5**	**<0.036**	**<0.18**	**<0.18**	**0.018 J**	**<0.042**	**88**	**6.3**	**2.8**	**0.51**	**<0.18**	**0.029 J**	**<0.036**	**0.52**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	N-9								N-10							
Sampling Date:	9/22/2008								9/22/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)																
Aroclor 1016	38 U	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	37 U	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Aroclor 1221	38 U	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	37 U	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Aroclor 1232	38 U	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	37 U	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Aroclor 1242	38 U	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	37 U	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Aroclor 1248	38 U	180 U	39 U	190 U	42 U	47	42 U	63000	37 U	36 U	190 U	39 U	210 U	44 U	40 U	23000
Aroclor 1254	140	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	23 J	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Aroclor 1260	38 U	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	37 U	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Aroclor 1262	38 U	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	37 U	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Aroclor 1268	38 U	180 U	39 U	190 U	42 U	42 U	42 U	4800 U	37 U	36 U	190 U	39 U	210 U	44 U	40 U	2200 U
Total (mg/kg)	**0.14**	**<0.18**	**<0.039**	**<0.19**	**<0.042**	**0.047**	**<0.042**	**63**	**0.023 J**	**<0.036**	**<0.19**	**<0.039**	**<0.21**	**<0.044**	**<0.04**	**23**

Grid ID:	N-11							N-12							
Sampling Date:	9/22/2008							9/23/2008							
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8
PCBs (µg/Kg)															
Aroclor 1016	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	38 U	37 U	39 U	36 U	37 U	38 U	40 U	44 U
Aroclor 1221	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	38 U	37 U	39 U	36 U	37 U	38 U	40 U	44 U
Aroclor 1232	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	38 U	37 U	39 U	36 U	37 U	38 U	40 U	44 U
Aroclor 1242	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	38 U	37 U	39 U	36 U	37 U	38 U	40 U	29 J
Aroclor 1248	370	24 J	39 U	41 U	42 U	4100 U	4100	38 U	37 U	39 U	36 U	37 U	38 U	40 U	44 U
Aroclor 1254	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	62 J	37 U	30 J	36 U	37 U	38 U	40 U	44 U
Aroclor 1260	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	38 U	37 U	39 U	36 U	37 U	38 U	40 U	44 U
Aroclor 1262	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	38 U	37 U	39 U	36 U	37 U	38 U	40 U	44 U
Aroclor 1268	190 U	40 U	39 U	41 U	42 U	4100 U	890 U	38 U	37 U	39 U	36 U	37 U	38 U	40 U	44 U
Total (mg/kg)	**0.37**	**0.024 J**	**<0.039**	**<0.041**	**<0.042**	**<4.1**	**4.1**	**0.062 J**	**<0.037**	**0.03 J**	**<0.036**	**<0.037**	**<0.038**	**<0.04**	**0.029 J**

Grid ID:	O-3						O-4		O-5		O-6			O-7		O-8		
Sampling Date:	5/12/2009						9/22/2008		9/22/2008		9/22/2008			9/22/2008		9/22/2008		
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	0-1	1-2	0-1	1-2	0-1	1-2	7-8	6-7	7-8	5-6	6-7	7-8
PCBs (µg/Kg)																		
Aroclor 1016	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Aroclor 1221	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Aroclor 1232	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Aroclor 1242	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Aroclor 1248	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	290	2600	75000	40 U	32000	97000
Aroclor 1254	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	23 J	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Aroclor 1260	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Aroclor 1262	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Aroclor 1268	39 U	36 U	41 U	37 U	190 U	380 U	37 U	36 U	36 U	37 U	36 U	35 U	57 U	190 U	9300 U	40 U	2200 U	23000 U
Total (mg/kg)	**<0.039**	**<0.036**	**<0.041**	**<0.037**	**<0.19**	**<0.38**	**<0.037**	**<0.036**	**<0.036**	**<0.037**	**0.023 J**	**<0.035**	**0.29**	**2.6**	**75**	**<0.04**	**32**	**97**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	O-9		O-10		O-11	P-6				P-7				P-8			
Sampling Date:	9/22/2008		9/23/2008		9/23/2008	5/12/2009				5/12/2009				5/12/2009			
Depth (feet bgs):	6-7	7-8	6-7	7-8	7-8	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4
PCBs (µg/Kg)																	
Aroclor 1016	45 U	9300 U	40 U	9400 U	830 U	34 U	39 U	40 U	220 U	2400 U	40 U	43 U	20000 U	37 U	41 U	40 U	450 U
Aroclor 1221	45 U	9300 U	40 U	9400 U	830 U	34 U	39 U	40 U	220 U	2400 U	40 U	43 U	20000 U	37 U	41 U	40 U	450 U
Aroclor 1232	45 U	9300 U	40 U	9400 U	830 U	34 U	39 U	40 U	220 U	2400 U	40 U	43 U	20000 U	37 U	41 U	40 U	450 U
Aroclor 1242	45 U	9300 U	40 U	9400 U	830 U	34 U	39 U	40 U	220 U	2400 U	40 U	43 U	20000 U	37 U	41 U	40 U	450 U
Aroclor 1248	45 U	62000	40 U	61000	5500	120	39 U	40 U	3800	2400 U	40 U	93	160000	37 U	41 U	40 U	5300
Aroclor 1254	45 U	9300 U	40 U	9400 U	830 U	34 U	39 U	40 U	220 U	3400	40 U	43 U	20000 U	37 U	41 U	40 U	450 U
Aroclor 1260	45 U	9300 U	40 U	9400 U	830 U	41	39 U	40 U	220 U	2400 U	40 U	43 U	20000 U	39	41 U	40 U	450 U
Aroclor 1262	45 U	9300 U	40 U	9400 U	830 U	34 U	39 U	40 U	220 U	2400 U	40 U	43 U	20000 U	37 U	41 U	40 U	450 U
Aroclor 1268	45 U	9300 U	40 U	9400 U	830 U	34 U	39 U	40 U	220 U	2400 U	40 U	43 U	20000 U	37 U	41 U	40 U	450 U
Total (mg/kg)	**<0.045**	**62**	**<0.04**	**61**	**5.5**	**0.161**	**<0.039**	**<0.04**	**3.8**	**3.4**	**<0.04**	**0.093**	**160**	**0.039**	**<0.041**	**<0.04**	**5.3**

Grid ID:	P-9				P-10				P-11			U-12				
Sampling Date:	5/12/2009				5/12/2009				5/12/2009			5/12/2009				
Depth (feet bgs):	0-1	1-2	2-3	3-4	0-1	1-2	2-3	3-4	0-1	1-2	2-3	0-1	1-2	2-3	3-4	4-5
PCBs (µg/Kg)																
Aroclor 1016	210 U	40 U	42 U	43 U	38 U	40 U	45 U	46 U	35 U	44 U	45 U	740 U	37 U	37 U	38 U	39 U
Aroclor 1221	210 U	40 U	42 U	43 U	38 U	40 U	45 U	46 U	35 U	44 U	45 U	740 U	37 U	37 U	38 U	39 U
Aroclor 1232	210 U	40 U	42 U	43 U	38 U	40 U	45 U	46 U	35 U	44 U	45 U	740 U	37 U	37 U	38 U	39 U
Aroclor 1242	210 U	40 U	42 U	43 U	38 U	40 U	45 U	46 U	35 U	44 U	45 U	740 U	37 U	37 U	38 U	39 U
Aroclor 1248	1100	40 U	42 U	43 U	170	40 U	45 U	46 U	75	44 U	45 U	1300	37 U	37 U	38 U	190
Aroclor 1254	210 U	40 U	42 U	43 U	38 U	40 U	45 U	46 U	35 U	44 U	45 U	740 U	47	37 U	38 U	39 U
Aroclor 1260	210 U	40 U	42 U	43 U	77	40 U	45 U	46 U	52	44 U	45 U	740 U	37 U	41	130	31 J
Aroclor 1262	290	40 U	42 U	43 U	38 U	40 U	45 U	46 U	35 U	44 U	45 U	740 U	37 U	37 U	38 U	39 U
Aroclor 1268	210 U	40 U	42 U	43 U	38 U	40 U	45 U	46 U	35 U	44 U	45 U	740 U	37 U	37 U	38 U	39 U
Total (mg/kg)	**1.39**	**<0.04**	**<0.042**	**<0.043**	**0.247**	**<0.04**	**<0.045**	**<0.046**	**0.127**	**<0.044**	**<0.045**	**1.3**	**0.047**	**0.041**	**0.13**	**0.221 J**

Grid ID:	U-13			V-12								V-13				
Sampling Date:	5/12/2009			9/18/2008								5/12/2009				
Depth (feet bgs):	0-1	2-3	3-4	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5
PCBs (µg/Kg)																
Aroclor 1016	35 U	35 U	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	2000 U	390 U	37 U	190 U	38 U	39 U	39 U
Aroclor 1221	35 U	35 U	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	2000 U	390 U	37 U	190 U	38 U	39 U	39 U
Aroclor 1232	35 U	35 U	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	2000 U	390 U	37 U	190 U	38 U	39 U	39 U
Aroclor 1242	35 U	35 U	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	2000 U	390 U	37 U	190 U	38 U	39 U	39 U
Aroclor 1248	110	260	35 U	870	41000	33000	3900	42000	8800	22000	4100	37 U	990	38 U	39 U	39 U
Aroclor 1254	35 U	35 U	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	2000 U	390 U	200	190 U	38 U	39 U	39 U
Aroclor 1260	35 U	42	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	1100 J	390 U	37 U	190 U	38 U	33 J	39 U
Aroclor 1262	35 U	35 U	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	2000 U	390 U	37 U	190 U	38 U	39 U	39 U
Aroclor 1268	35 U	35 U	35 U	200 U	3900 U	3900 U	380 U	3900 U	790 U	2000 U	390 U	37 U	190 U	38 U	39 U	39 U
Total (mg/kg)	**0.11**	**0.302**	**<0.035**	**0.87**	**41**	**33**	**3.9**	**42**	**8.8**	**23.1 J**	**4.1**	**0.2**	**0.99**	**<0.038**	**0.033 J**	**<0.039**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	V-22							V-23						W-2				
Sampling Date:	5/12/2009							5/12/2009						9/18/2008				
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	0-1	1-2	2-3	3-4	4-5	5-6	0-1	1-2	2-3	3-4	4-5
PCBs (µg/Kg)																		
Aroclor 1016	180 U	3700 U	38 U	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	79 U	45 U	38 U	37 U	39 U
Aroclor 1221	180 U	3700 U	38 U	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	79 U	45 U	38 U	37 U	39 U
Aroclor 1232	180 U	3700 U	38 U	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	79 U	45 U	38 U	37 U	39 U
Aroclor 1242	180 U	3700 U	38 U	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	79 U	45 U	38 U	37 U	39 U
Aroclor 1248	1100	20000	38 U	39 U	35 U	36 U	39 U	29000	690 J	40 U	38 U	36 U	37 U	460 J	45 U	38 U	37 U	39 U
Aroclor 1254	180 U	3700 U	55	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	79 U	45 U	38 U	37 U	39 U
Aroclor 1260	180 U	3700 U	38 U	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	91 J	45 U	38 U	37 U	39 U
Aroclor 1262	180 U	3700 U	38 U	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	79 U	45 U	38 U	37 U	39 U
Aroclor 1268	180 U	3700 U	38 U	39 U	35 U	36 U	39 U	3800 U	37 U	40 U	38 U	36 U	37 U	79 U	45 U	38 U	37 U	39 U
Total (mg/kg)	**1.1**	**20**	**0.055**	**<0.039**	**<0.035**	**<0.036**	**<0.039**	**29**	**0.69 J**	**<0.04**	**<0.038**	**<0.036**	**<0.037**	**0.551 J**	**<0.045**	**<0.038**	**<0.037**	**<0.039**

Grid ID:	W-12						W-13				
Sampling Date:	5/12/2009						5/12/2009				
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	0-1	1-2	2-3	3-4	4-5
PCBs (µg/Kg)											
Aroclor 1016	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Aroclor 1221	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Aroclor 1232	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Aroclor 1242	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Aroclor 1248	6200	64000	50000	52000	19000	1600	71	10000	170	88	2100
Aroclor 1254	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Aroclor 1260	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Aroclor 1262	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Aroclor 1268	370 U	3600 U	3800 U	3900 U	4100 U	180 U	35 U	770 U	35 U	35 U	380 U
Total (mg/kg)	**6.2**	**64**	**50**	**52**	**19**	**1.6**	**0.071**	**10**	**0.17**	**0.088**	**2.1**

Grid ID:	W-22								W-23					
Sampling Date:	9/23/2008								5/12/2009					
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	0-1	1-2	2-3	3-4	4-5	5-6
PCBs (µg/Kg)														
Aroclor 1016	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Aroclor 1221	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Aroclor 1232	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Aroclor 1242	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Aroclor 1248	13000	5900	1800	39 U	36 U	36 U	37 U	45 U	1000	150 J	41 U	37 U	37 U	37 U
Aroclor 1254	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Aroclor 1260	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Aroclor 1262	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Aroclor 1268	2000 U	1800 U	360 U	39 U	36 U	36 U	37 U	45 U	190 U	38 U	41 U	37 U	37 U	37 U
Total (mg/kg)	**13**	**5.9**	**1.8**	**<0.039**	**<0.036**	**<0.036**	**<0.037**	**<0.045**	**1**	**0.15 J**	**<0.041**	**<0.037**	**<0.037**	**<0.037**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 4
Supplemental (2008) and Additional Investigation (2009) Sample Results
Chemtura Corporation
Brooklyn, NY

Grid ID:	X-20							X-22					
Sampling Date:	9/16/2008							5/12/2009					
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6	6-7	0-1	1-2	2-3	3-4	4-5	5-6
PCBs (µg/Kg)													
Aroclor 1016	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	36 U	39 U	42 U	36 U	34 U	38 U
Aroclor 1221	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	36 U	39 U	42 U	36 U	34 U	38 U
Aroclor 1232	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	36 U	39 U	42 U	36 U	34 U	38 U
Aroclor 1242	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	36 U	39 U	42 U	36 U	34 U	38 U
Aroclor 1248	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	240	130	42 U	36 U	34 U	38 U
Aroclor 1254	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	36 U	39 U	42 U	36 U	34 U	38 U
Aroclor 1260	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	53	31 J	42 U	36 U	34 U	38 U
Aroclor 1262	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	36 U	39 U	42 U	36 U	34 U	38 U
Aroclor 1268	44 U	40 U	39 U	4000 U	4000 U	39 U	39 U	36 U	39 U	42 U	36 U	34 U	38 U
Total (mg/kg)	**<0.044**	**<0.04**	**<0.039**	**<4**	**<4**	**<0.039**	**<0.039**	**0.293**	**0.161 J**	**<0.042**	**<0.036**	**<0.034**	**<0.038**

Grid ID:	X-23					
Sampling Date:	5/12/2009					
Depth (feet bgs):	0-1	1-2	2-3	3-4	4-5	5-6
PCBs (µg/Kg)						
Aroclor 1016	370 U	40 U	380 U	38 U	38 U	38 U
Aroclor 1221	370 U	40 U	380 U	38 U	38 U	38 U
Aroclor 1232	370 U	40 U	380 U	38 U	38 U	38 U
Aroclor 1242	370 U	40 U	380 U	38 U	38 U	38 U
Aroclor 1248	4200	350	380 U	38 U	38 U	38 U
Aroclor 1254	370 U	40 U	380 U	38 U	38 U	38 U
Aroclor 1260	370 U	46	380 U	38 U	38 U	38 U
Aroclor 1262	370 U	40 U	380 U	38 U	38 U	38 U
Aroclor 1268	370 U	40 U	380 U	38 U	38 U	38 U
Total (mg/kg)	**4.2**	**0.396**	**<0.38**	**<0.038**	**<0.038**	**<0.038**

J = Estimated value. Result is below the reporting limit; U = Not detected at reporting limit shown.

Table 5
Surficial Concrete Sample Results (2008)
Chemtura Corporation
Brooklyn, NY

Grid ID:	B-2	B-9	B-13	B-17	C-6	D-9	D-19	E-1
Sampling Date:	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008
PCBs (µg/Kg)								
Aroclor 1016	34 U	34 U	34 U	35 U	180 U	34 U	34 U	170 U
Aroclor 1221	34 U	34 U	34 U	35 U	180 U	34 U	34 U	170 U
Aroclor 1232	34 U	34 U	34 U	35 U	180 U	34 U	34 U	170 U
Aroclor 1242	34 U	34 U	34 U	35 U	180 U	34 U	34 U	170 U
Aroclor 1248	38	34 U	34 U	35 U	940	86	34 U	970
Aroclor 1254	34 U	110	34 U	35 U	180 U	34 U	34 U	170 U
Aroclor 1260	34 U	34 U	34 U	35 U	180 U	34 U	34 U	170 U
Aroclor 1262	34 U	34 U	34 U	35 U	180 U	34 U	34 U	170 U
Aroclor 1268	34 U	34 U	34 U	35 U	180 U	34 U	34 U	170 U
Total (mg/kg)	**0.038**	**0.11**	**<0.034**	**<0.035**	**0.94**	**0.086**	**<0.034**	**0.97**

Grid ID:	E-24	F-5	F-13	F-16	G-7	H-11	H-18	H-23
Sampling Date:	9/25/2008	9/25/2008	9/25/2008	9/24/2008	9/25/2008	9/25/2008	9/24/2008	9/25/2008
PCBs (µg/Kg)								
Aroclor 1016	390 U	35 U	340 U	35 U	34 U	36 U	35 U	36 U
Aroclor 1221	390 U	35 U	340 U	35 U	34 U	36 U	35 U	36 U
Aroclor 1232	390 U	35 U	340 U	35 U	34 U	36 U	35 U	36 U
Aroclor 1242	390 U	35 U	340 U	35 U	34 U	36 U	35 U	36 U
Aroclor 1248	450	35 U	5000	35 U	34 U	36 U	35 U	280
Aroclor 1254	390 U	150	340 U	35 U	310	190	35 U	36 U
Aroclor 1260	390 U	35 U	340 U	35 U	34 U	36 U	35 U	36 U
Aroclor 1262	390 U	35 U	340 U	35 U	34 U	36 U	35 U	36 U
Aroclor 1268	390 U	35 U	340 U	35 U	34 U	36 U	35 U	36 U
Total (mg/kg)	**0.45**	**0.15**	**5**	**<0.035**	**0.31**	**0.19**	**<0.035**	**0.28**

Grid ID:	H-24	I-3	J-14	J-20	K-1	K-6	K-8	K-17
Sampling Date:	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008
PCBs (µg/Kg)								
Aroclor 1016	400 U	680 U	340 U	330 U	38 U	670 U	170000 U	34 U
Aroclor 1221	400 U	680 U	340 U	330 U	38 U	670 U	170000 U	34 U
Aroclor 1232	400 U	680 U	340 U	330 U	38 U	670 U	170000 U	34 U
Aroclor 1242	400 U	680 U	340 U	330 U	38 U	670 U	170000 U	34 U
Aroclor 1248	2100	5800	1000	330 U	330	670 U	2000000	34 U
Aroclor 1254	400 U	680 U	340 U	310 J	38 U	6600	170000 U	51
Aroclor 1260	400 U	680 U	340 U	330 U	38 U	670 U	170000 U	34 U
Aroclor 1262	400 U	680 U	340 U	330 U	38 U	670 U	170000 U	34 U
Aroclor 1268	400 U	680 U	340 U	330 U	38 U	670 U	170000 U	34 U
Total (mg/kg)	**2.1**	**5.8**	**1**	**0.31 J**	**0.33**	**6.6**	**2000**	**0.051**

Grid ID:	L-22	M-4	M-9	M-12	M-16	M-19	R-22	T-24
Sampling Date:	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008	9/25/2008
PCBs (µg/Kg)								
Aroclor 1016	1800 U	690 U	35 U	170 U	340 U	340 U	330 U	380 U
Aroclor 1221	1800 U	690 U	35 U	170 U	340 U	340 U	330 U	380 U
Aroclor 1232	1800 U	690 U	35 U	170 U	340 U	340 U	330 U	380 U
Aroclor 1242	1800 U	690 U	35 U	170 U	340 U	340 U	330 U	380 U
Aroclor 1248	5100	7600	35 U	810	3700	4500	330 U	380 U
Aroclor 1254	1800 U	690 U	230	170 U	340 U	340 U	610	1000
Aroclor 1260	1800 U	690 U	35 U	170 U	340 U	340 U	330 U	380 U
Aroclor 1262	1800 U	690 U	35 U	170 U	340 U	340 U	330 U	380 U
Aroclor 1268	1800 U	690 U	35 U	170 U	340 U	340 U	330 U	380 U
Total (mg/kg)	**5.1**	**7.6**	**0.23**	**0.81**	**3.7**	**4.5**	**0.61**	**1**

J = Estimated value. Result below reporting limit.
U = Non-detect at or above reporting limit shown.

Table 5
Surficial Concrete Sample Results (2008)
Chemtura Corporation
Brooklyn, NY

Grid ID:	V-12	W-2	W-8	W-22	X-20
Sampling Date:	**9/25/2008**	**9/25/2008**	**9/25/2008**	**9/25/2008**	**9/25/2008**
PCBs (µg/Kg)					
Aroclor 1016	350 U	41 U	34 U	370 U	34 U
Aroclor 1221	350 U	41 U	34 U	370 U	34 U
Aroclor 1232	350 U	41 U	34 U	370 U	34 U
Aroclor 1242	350 U	41 U	34 U	370 U	34 U
Aroclor 1248	360	41 U	34 U	370 U	34 U
Aroclor 1254	350 U	41 U	34 U	1200	95
Aroclor 1260	350 U	41 U	34 U	370 U	34 U
Aroclor 1262	350 U	41 U	34 U	370 U	34 U
Aroclor 1268	350 U	41 U	34 U	370 U	34 U
Total (mg/kg)	**0.36**	**<0.041**	**<0.034**	**1.2**	**0.095**

J = Estimated value. Result below reporting limit.
U = Non-detect at or above reporting limit shown.

Appendix A – Boring Logs

Appendix B – Test America Category B Laboratory Analytical Data

Appendix C – Data Usability Summary Reports